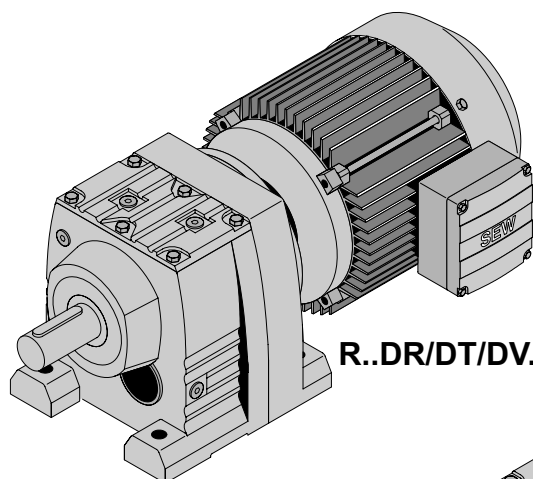


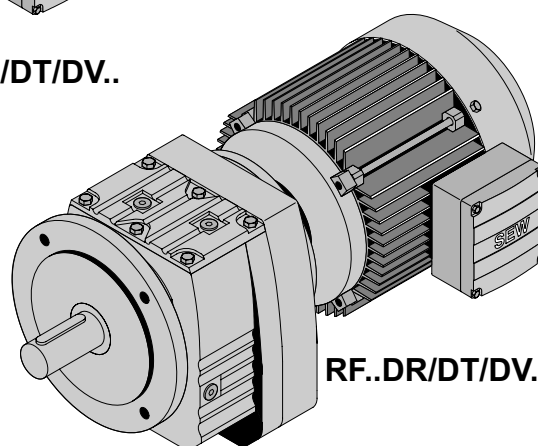
### 3 R..DR/DT/DV

#### 3.1 R, RF, R..F, RM, RX, RXF, RZ..DR/DT/DV

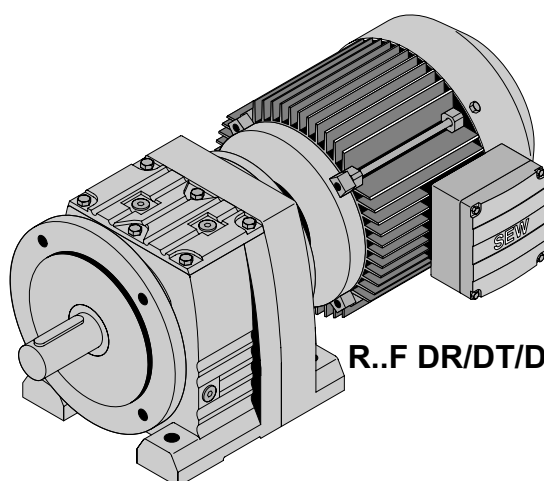
3



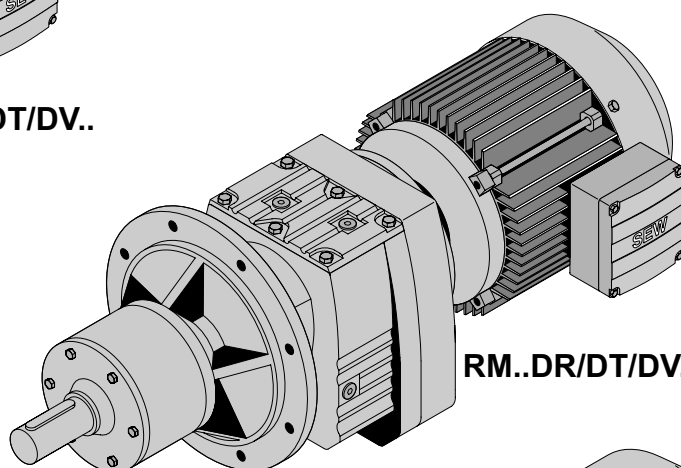
R..DR/DT/DV..



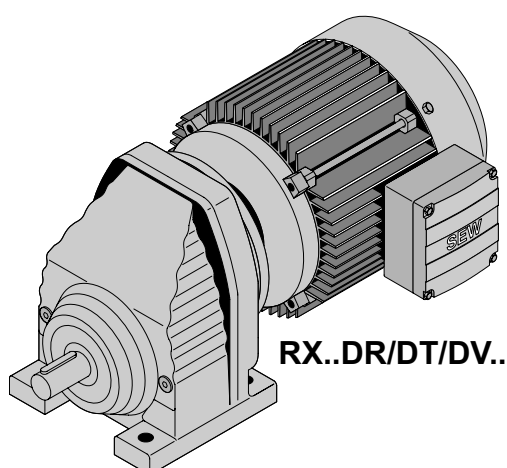
RF..DR/DT/DV..



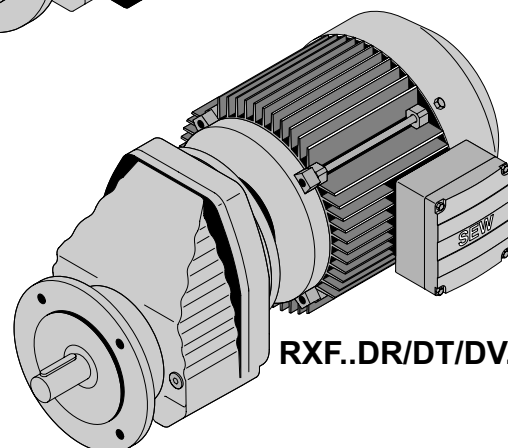
R..F DR/DT/DV..



RM..DR/DT/DV..

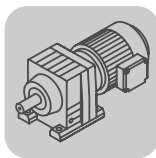


RX..DR/DT/DV..



RXF..DR/DT/DV..

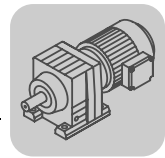
04453AXX


**3.2 R.. → DR/DT/DV**

| <b>RX57, n<sub>e</sub> = 1400 1/min</b> |                           |                        |                 |       |              |      |      |       |       | <b>69 Nm</b>     |
|-----------------------------------------|---------------------------|------------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|
| n <sub>a</sub><br>[1/min]               | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (/R)<br>[ ' ] | i     | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132M<br>DV132S |
| 255                                     | 39                        | 3100                   | -               | 5.50* |              |      |      |       |       |                  |
| 276                                     | 36                        | 3030                   | -               | 5.07  |              |      |      |       |       |                  |
| 322                                     | 68                        | 2640                   | -               | 4.35  |              |      |      |       |       |                  |
| 369                                     | 69                        | 2480                   | -               | 3.79  |              |      |      |       |       |                  |
| 394                                     | 69                        | 2420                   | -               | 3.55* |              |      |      |       |       |                  |
| 446                                     | 65                        | 2320                   | -               | 3.14  |              |      |      |       |       |                  |
| 481                                     | 67                        | 2170                   | -               | 2.91  |              |      |      |       |       |                  |
| 530                                     | 69                        | 1810                   | -               | 2.64* |              |      |      |       |       |                  |
| 591                                     | 69                        | 1500                   | -               | 2.37  |              |      |      |       |       |                  |
| 686                                     | 69                        | 1070                   | -               | 2.04  |              |      |      |       |       |                  |
| 729                                     | 69                        | 890                    | -               | 1.92* |              |      |      |       |       |                  |
| 848                                     | 69                        | 430                    | -               | 1.65  |              |      |      |       |       |                  |
| 946                                     | 68                        | 112                    | -               | 1.48  |              |      |      |       |       |                  |
| 1075                                    | 63                        | 132                    | -               | 1.30  |              |      |      |       |       |                  |

| <b>RX67, n<sub>e</sub> = 1400 1/min</b> |                           |                        |                 |       |              |      |      |       |       | <b>134 Nm</b>    |
|-----------------------------------------|---------------------------|------------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|
| n <sub>a</sub><br>[1/min]               | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (/R)<br>[ ' ] | i     | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132M<br>DV132S |
| 231                                     | 43                        | 4010                   | -               | 6.07  |              |      |      |       |       |                  |
| 270                                     | 75                        | 3580                   | -               | 5.18  |              |      |      |       |       |                  |
| 309                                     | 82                        | 3350                   | -               | 4.53  |              |      |      |       |       |                  |
| 326                                     | 80                        | 3300                   | -               | 4.30* |              |      |      |       |       |                  |
| 371                                     | 87                        | 3090                   | -               | 3.77  |              |      |      |       |       |                  |
| 438                                     | 100                       | 2800                   | -               | 3.20* |              |      |      |       |       |                  |
| 484                                     | 106                       | 2640                   | -               | 2.89  |              |      |      |       |       |                  |
| 551                                     | 118                       | 2000                   | -               | 2.54  |              |      |      |       |       |                  |
| 583                                     | 123                       | 1530                   | -               | 2.40* |              |      |      |       |       |                  |
| 686                                     | 134                       | 230                    | -               | 2.04  |              |      |      |       |       |                  |
| 753                                     | 126                       | 225                    | -               | 1.86  |              |      |      |       |       |                  |
| 870                                     | 114                       | 245                    | -               | 1.61  |              |      |      |       |       |                  |
| 1000                                    | 104                       | 205                    | -               | 1.40* |              |      |      |       |       |                  |

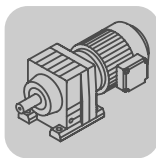
| RX77, n <sub>e</sub> = 1400 1/min |                           |                        |                 |       |              |      |      |       |       |                  | 215 Nm            |
|-----------------------------------|---------------------------|------------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| n <sub>a</sub><br>[1/min]         | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (/R)<br>[ ' ] | i     | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132M<br>DV132S | DV132ML<br>DV160M |
| 175                               | 57                        | 6330                   | -               | 8.00* |              |      |      |       |       |                  |                   |
| 187                               | 53                        | 6200                   | -               | 7.47  |              |      |      |       |       |                  |                   |
| 218                               | 103                       | 5600                   | -               | 6.41  |              |      |      |       |       |                  |                   |
| 249                               | 110                       | 5300                   | -               | 5.63  |              |      |      |       |       |                  |                   |
| 262                               | 103                       | 5240                   | -               | 5.35* |              |      |      |       |       |                  |                   |
| 296                               | 123                       | 4900                   | -               | 4.73  |              |      |      |       |       |                  |                   |
| 347                               | 143                       | 4500                   | -               | 4.04* |              |      |      |       |       |                  |                   |
| 378                               | 153                       | 4290                   | -               | 3.70  |              |      |      |       |       |                  |                   |
| 431                               | 182                       | 3200                   | -               | 3.25* |              |      |      |       |       |                  |                   |
| 455                               | 193                       | 2560                   | -               | 3.08* |              |      |      |       |       |                  |                   |
| 519                               | 215                       | 1110                   | -               | 2.70  |              |      |      |       |       |                  |                   |
| 576                               | 215                       | 510                    | -               | 2.43  |              |      |      |       |       |                  |                   |
| 657                               | 200                       | 435                    | -               | 2.13  |              |      |      |       |       |                  |                   |
| 745                               | 187                       | 335                    | -               | 1.88* |              |      |      |       |       |                  |                   |
| 838                               | 173                       | 315                    | -               | 1.67  |              |      |      |       |       |                  |                   |
| 986                               | 155                       | 315                    | -               | 1.42  |              |      |      |       |       |                  |                   |



| RX87, n <sub>e</sub> = 1400 1/min |                           |                        |                 |       |      |      |       |       |                  |                             | 405 Nm |
|-----------------------------------|---------------------------|------------------------|-----------------|-------|------|------|-------|-------|------------------|-----------------------------|--------|
| n <sub>a</sub><br>[1/min]         | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (fR)<br>[ ' ] | i     | DT80 | DT90 | DV100 | DV112 | DV132M<br>DV132S | DV132ML<br>DV160L<br>DV160M | DV180  |
| 162                               | 139                       | 7890                   | -               | 8.65  |      |      |       |       |                  |                             |        |
| 183                               | 149                       | 7490                   | -               | 7.63  |      |      |       |       |                  |                             |        |
| 194                               | 140                       | 7380                   | -               | 7.20* |      |      |       |       |                  |                             |        |
| 217                               | 192                       | 6850                   | -               | 6.45  |      |      |       |       |                  |                             |        |
| 252                               | 225                       | 6320                   | -               | 5.56* |      |      |       |       |                  |                             |        |
| 276                               | 250                       | 5980                   | -               | 5.07  |      |      |       |       |                  |                             |        |
| 311                               | 290                       | 5500                   | -               | 4.50* |      |      |       |       |                  |                             |        |
| 370                               | 305                       | 5030                   | -               | 3.78  |      |      |       |       |                  |                             |        |
| 402                               | 405                       | 2730                   | -               | 3.48  |      |      |       |       |                  |                             |        |
| 453                               | 405                       | 1950                   | -               | 3.09  |      |      |       |       |                  |                             |        |
| 507                               | 405                       | 1200                   | -               | 2.76* |      |      |       |       |                  |                             |        |
| 565                               | 405                       | 470                    | -               | 2.48  |      |      |       |       |                  |                             |        |
| 651                               | 385                       | 42                     | -               | 2.15  |      |      |       |       |                  |                             |        |
| 725                               | 355                       | 185                    | -               | 1.93  |      |      |       |       |                  |                             |        |
| 875                               | 315                       | 74                     | -               | 1.60* |      |      |       |       |                  |                             |        |
| 1005                              | 290                       | 74                     | -               | 1.39  |      |      |       |       |                  |                             |        |

| RX97, n <sub>e</sub> = 1400 1/min |                           |                        |                 |       |      |      |       |       |                  |                             | 595 Nm |       |
|-----------------------------------|---------------------------|------------------------|-----------------|-------|------|------|-------|-------|------------------|-----------------------------|--------|-------|
| n <sub>a</sub><br>[1/min]         | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (/R)<br>[ ' ] | i     | DT80 | DT90 | DV100 | DV112 | DV132M<br>DV132S | DV132ML<br>DV160L<br>DV160M | DV180  | DV200 |
| 170                               | 225                       | 9560                   | -               | 8.23  |      |      |       |       |                  |                             |        |       |
| 196                               | 260                       | 8950                   | -               | 7.16* |      |      |       |       |                  |                             |        |       |
| 213                               | 300                       | 8500                   | -               | 6.56  |      |      |       |       |                  |                             |        |       |
| 242                               | 420                       | 7630                   | -               | 5.79  |      |      |       |       |                  |                             |        |       |
| 285                               | 395                       | 7220                   | -               | 4.91  |      |      |       |       |                  |                             |        |       |
| 310                               | 595                       | 6180                   | -               | 4.52  |      |      |       |       |                  |                             |        |       |
| 347                               | 595                       | 5380                   | -               | 4.04  |      |      |       |       |                  |                             |        |       |
| 385                               | 595                       | 4530                   | -               | 3.64* |      |      |       |       |                  |                             |        |       |
| 424                               | 595                       | 3730                   | -               | 3.30  |      |      |       |       |                  |                             |        |       |
| 479                               | 595                       | 2810                   | -               | 2.92  |      |      |       |       |                  |                             |        |       |
| 530                               | 595                       | 1980                   | -               | 2.64  |      |      |       |       |                  |                             |        |       |
| 625                               | 595                       | 495                    | -               | 2.24* |      |      |       |       |                  |                             |        |       |
| 714                               | 570                       | 19                     | -               | 1.96  |      |      |       |       |                  |                             |        |       |
| 854                               | 505                       | 51                     | -               | 1.64  |      |      |       |       |                  |                             |        |       |
| 986                               | 455                       | 132                    | -               | 1.42  |      |      |       |       |                  |                             |        |       |

| RX107, $n_e = 1400$ 1/min |                    |                 |                         |       |       |       |                  |                             |       | 830 Nm                    |
|---------------------------|--------------------|-----------------|-------------------------|-------|-------|-------|------------------|-----------------------------|-------|---------------------------|
| $n_a$<br>[1/min]          | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DV100 | DV112 | DV132M<br>DV132S | DV132ML<br>DV160L<br>DV160M | DV180 | DV200<br>DV225M<br>DV225S |
| 211                       | 460                | 9700            | -                       | 6.63* |       |       |                  |                             |       |                           |
| 250                       | 455                | 9080            | -                       | 5.61  |       |       |                  |                             |       |                           |
| 270                       | 695                | 7850            | -                       | 5.19  |       |       |                  |                             |       |                           |
| 301                       | 695                | 7450            | -                       | 4.65  |       |       |                  |                             |       |                           |
| 333                       | 830                | 6420            | -                       | 4.20* |       |       |                  |                             |       |                           |
| 367                       | 830                | 5550            | -                       | 3.81  |       |       |                  |                             |       |                           |
| 414                       | 830                | 4490            | -                       | 3.38  |       |       |                  |                             |       |                           |
| 456                       | 830                | 3600            | -                       | 3.07  |       |       |                  |                             |       |                           |
| 530                       | 830                | 2170            | -                       | 2.64* |       |       |                  |                             |       |                           |
| 609                       | 830                | 900             | -                       | 2.30  |       |       |                  |                             |       |                           |
| 718                       | 765                | 555             | -                       | 1.95  |       |       |                  |                             |       |                           |
| 819                       | 705                | 480             | -                       | 1.71  |       |       |                  |                             |       |                           |
| 972                       | 645                | 315             | -                       | 1.44  |       |       |                  |                             |       |                           |

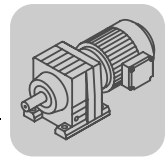


**R..DR/DT/DV**  
R.. → DR/DT/DV

| <b>R07, n<sub>e</sub> = 1400 1/min</b> |                           |                        |                  |       |  | <b>50 Nm</b>         |  |
|----------------------------------------|---------------------------|------------------------|------------------|-------|--|----------------------|--|
| n <sub>a</sub><br>[1/min]              | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (°/R)<br>[ ' ] | i     |  | DT56<br>DR63<br>DT71 |  |
| <b>3</b>                               |                           |                        |                  |       |  |                      |  |
| 18                                     | 50                        | 1510                   | -                | 78.24 |  |                      |  |
| 20                                     | 50                        | 1510                   | -                | 71.47 |  |                      |  |
| 23                                     | 50                        | 1510                   | -                | 60.32 |  |                      |  |
| 27                                     | 50                        | 1510                   | -                | 51.52 |  |                      |  |
| 29                                     | 50                        | 1470                   | -                | 47.78 |  |                      |  |
| 32                                     | 50                        | 1420                   | -                | 44.16 |  |                      |  |
| 34                                     | 50                        | 1380                   | -                | 41.31 |  |                      |  |
| 35                                     | 50                        | 1370                   | -                | 40.34 |  |                      |  |
| 36                                     | 50                        | 1340                   | -                | 38.51 |  |                      |  |
| 41                                     | 50                        | 1270                   | -                | 34.05 |  |                      |  |
| 48                                     | 50                        | 1190                   | -                | 29.08 |  |                      |  |
| 52                                     | 50                        | 1150                   | -                | 26.97 |  |                      |  |
| 60                                     | 50                        | 1080                   | -                | 23.32 |  |                      |  |
| 64                                     | 50                        | 1040                   | -                | 21.73 |  |                      |  |
| <b>2</b>                               |                           |                        |                  |       |  |                      |  |
| 76                                     | 50                        | 970                    | -                | 18.31 |  |                      |  |
| 84                                     | 50                        | 930                    | -                | 16.73 |  |                      |  |
| 99                                     | 50                        | 850                    | -                | 14.12 |  |                      |  |
| 116                                    | 50                        | 790                    | -                | 12.06 |  |                      |  |
| 125                                    | 50                        | 760                    | -                | 11.18 |  |                      |  |
| 145                                    | 50                        | 710                    | -                | 9.67  |  |                      |  |
| 155                                    | 50                        | 685                    | -                | 9.01  |  |                      |  |
| 178                                    | 49                        | 645                    | -                | 7.85  |  |                      |  |
| 187                                    | 43                        | 595                    | -                | 7.48  |  |                      |  |
| 205                                    | 43                        | 535                    | -                | 6.83  |  |                      |  |
| 243                                    | 40                        | 530                    | -                | 5.76  |  |                      |  |
| 285                                    | 37                        | 530                    | -                | 4.92  |  |                      |  |
| 306                                    | 36                        | 520                    | -                | 4.57  |  |                      |  |
| 354                                    | 34                        | 505                    | -                | 3.95  |  |                      |  |
| 380                                    | 33                        | 500                    | -                | 3.68  |  |                      |  |
| 436                                    | 31                        | 495                    | -                | 3.21  |  |                      |  |

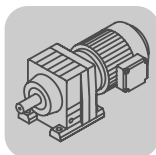
  

| <b>R17, n<sub>e</sub> = 1400 1/min</b> |                           |                        |                  |       |  | <b>85 Nm</b> |      |
|----------------------------------------|---------------------------|------------------------|------------------|-------|--|--------------|------|
| n <sub>a</sub><br>[1/min]              | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (°/R)<br>[ ' ] | i     |  | DR63<br>DT71 | DT80 |
| <b>3</b>                               |                           |                        |                  |       |  |              |      |
| 17                                     | 85                        | 1770                   | -                | 81.64 |  |              |      |
| 20                                     | 85                        | 1770                   | -                | 70.39 |  |              |      |
| 21                                     | 85                        | 1770                   | -                | 65.61 |  |              |      |
| 24                                     | 85                        | 1770                   | -                | 57.35 |  |              |      |
| 26                                     | 85                        | 1770                   | -                | 53.76 |  |              |      |
| 30                                     | 85                        | 1770                   | -                | 47.44 |  |              |      |
| 32                                     | 85                        | 1770                   | -                | 44.18 |  |              |      |
| 36                                     | 85                        | 1770                   | -                | 38.61 |  |              |      |
| 39                                     | 85                        | 1770                   | -                | 36.20 |  |              |      |
| 44                                     | 85                        | 1770                   | -                | 31.94 |  |              |      |
| 49                                     | 85                        | 1770                   | -                | 28.32 |  |              |      |
| 58                                     | 85                        | 1650                   | -                | 24.07 |  |              |      |
| <b>2</b>                               |                           |                        |                  |       |  |              |      |
| 55                                     | 85                        | 1690                   | -                | 25.23 |  |              |      |
| 60                                     | 85                        | 1620                   | -                | 23.15 |  |              |      |
| 71                                     | 85                        | 1500                   | -                | 19.71 |  |              |      |
| 82                                     | 85                        | 1400                   | -                | 16.99 |  |              |      |
| 88                                     | 85                        | 1350                   | -                | 15.84 |  |              |      |

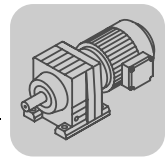


| R17, $n_e = 1400$ 1/min |                    |                 |                         |       |              | 85 Nm |  |
|-------------------------|--------------------|-----------------|-------------------------|-------|--------------|-------|--|
| $n_a$<br>[1/min]        | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DR63<br>DT71 | DT80  |  |
| 101                     | 85                 | 1270            | -                       | 13.84 |              |       |  |
| 108                     | 85                 | 1230            | -                       | 12.98 |              |       |  |
| 122                     | 81                 | 1180            | -                       | 11.45 |              |       |  |
| 138                     | 77                 | 1140            | -                       | 10.15 |              |       |  |
| 162                     | 72                 | 1090            | -                       | 8.63  |              |       |  |
| 185                     | 56                 | 1040            | -                       | 7.55  |              |       |  |
| 199                     | 55                 | 1010            | -                       | 7.04  |              |       |  |
| 228                     | 54                 | 950             | -                       | 6.15  |              |       |  |
| 243                     | 53                 | 930             | -                       | 5.76  |              |       |  |
| 275                     | 51                 | 890             | -                       | 5.09  |              |       |  |
| 310                     | 48                 | 870             | -                       | 4.51  |              |       |  |
| 366                     | 45                 | 830             | -                       | 3.83  |              |       |  |

| R27, $n_e = 1400$ 1/min                                                               |                    |                 |                         |        |              | 130 Nm |      |       |
|---------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|--------|--------------|--------|------|-------|
| $n_a$<br>[1/min]                                                                      | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$    | DR63<br>DT71 | DT80   | DT90 | DV100 |
|  3   |                    |                 |                         |        |              |        |      |       |
| 10                                                                                    | 130                | 4230            | -                       | 135.09 |              |        |      |       |
| 11                                                                                    | 130                | 4230            | -                       | 123.91 |              |        |      |       |
| 13                                                                                    | 130                | 4230            | -                       | 105.49 |              |        |      |       |
| 15                                                                                    | 130                | 4230            | -                       | 90.96  |              |        |      |       |
| 17                                                                                    | 130                | 4230            | -                       | 84.78  |              |        |      |       |
| 19                                                                                    | 130                | 4230            | -                       | 74.11  |              |        |      |       |
| 20                                                                                    | 130                | 4180            | -                       | 69.47  |              |        |      |       |
| 23                                                                                    | 130                | 3980            | -                       | 61.30  |              |        |      |       |
| 25                                                                                    | 130                | 3840            | -                       | 55.87  |              |        |      |       |
| 29                                                                                    | 130                | 3630            | -                       | 48.17  |              |        |      |       |
| 31                                                                                    | 130                | 3530            | -                       | 44.90  |              |        |      |       |
| 36                                                                                    | 130                | 3350            | -                       | 39.25  |              |        |      |       |
| 38                                                                                    | 130                | 3260            | -                       | 36.79  |              |        |      |       |
| 43                                                                                    | 130                | 3100            | -                       | 32.47  |              |        |      |       |
| 49                                                                                    | 130                | 2950            | -                       | 28.78  |              |        |      |       |
| 57                                                                                    | 130                | 2770            | -                       | 24.47  |              |        |      |       |
|  2 |                    |                 |                         |        |              |        |      |       |
| 49                                                                                    | 130                | 2940            | -                       | 28.37  |              |        |      |       |
| 54                                                                                    | 130                | 2840            | -                       | 26.09  |              |        |      |       |
| 63                                                                                    | 130                | 2660            | -                       | 22.32  |              |        |      |       |
| 72                                                                                    | 130                | 2510            | -                       | 19.35  |              |        |      |       |
| 77                                                                                    | 130                | 2440            | -                       | 18.08  |              |        |      |       |
| 90                                                                                    | 130                | 2290            | -                       | 15.63  |              |        |      |       |
| 105                                                                                   | 130                | 2140            | -                       | 13.28* |              |        |      |       |
| 118                                                                                   | 129                | 1990            | -                       | 11.86  |              |        |      |       |
| 138                                                                                   | 122                | 1890            | -                       | 10.13  |              |        |      |       |
| 149                                                                                   | 122                | 900             | -                       | 9.41   |              |        |      |       |
| 172                                                                                   | 116                | 870             | -                       | 8.16   |              |        |      |       |
| 183                                                                                   | 112                | 900             | -                       | 7.63*  |              |        |      |       |
| 212                                                                                   | 106                | 880             | -                       | 6.59   |              |        |      |       |
| 250                                                                                   | 99                 | 880             | -                       | 5.60*  |              |        |      |       |
| 280                                                                                   | 95                 | 860             | -                       | 5.00*  |              |        |      |       |
| 328                                                                                   | 87                 | 920             | -                       | 4.27   |              |        |      |       |
| 350                                                                                   | 85                 | 910             | -                       | 4.00*  |              |        |      |       |
| 415                                                                                   | 79                 | 900             | -                       | 3.37   |              |        |      |       |



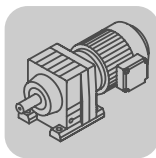
| <b>R27R17, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                 |                              |                         |          | <b>130 Nm</b>        |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|-------------------------|----------|----------------------|-------------|
| <b>n<sub>a</sub></b><br>[1/min]                                                                                                                                                           | <b>M<sub>amax</sub></b><br>[Nm] | <b>F<sub>Ra</sub></b><br>[N] | <b>φ (°/R)</b><br>[ ' ] | <b>i</b> | <b>DR63<br/>DT71</b> | <b>DT80</b> |
|  <b>3</b>  <b>3</b>     |                                 |                              |                         |          |                      |             |
| 0.16                                                                                                                                                                                      | 130                             | 4230                         | -                       | 8612     |                      |             |
| 0.19                                                                                                                                                                                      | 130                             | 4230                         | -                       | 7425     |                      |             |
| 0.20                                                                                                                                                                                      | 130                             | 4230                         | -                       | 6921     |                      |             |
| 0.23                                                                                                                                                                                      | 130                             | 4230                         | -                       | 6050     |                      |             |
| 0.27                                                                                                                                                                                      | 130                             | 4230                         | -                       | 5217     |                      |             |
| 0.30                                                                                                                                                                                      | 130                             | 4230                         | -                       | 4661     |                      |             |
| 0.34                                                                                                                                                                                      | 130                             | 4230                         | -                       | 4073     |                      |             |
| 0.40                                                                                                                                                                                      | 130                             | 4230                         | -                       | 3516     |                      |             |
| 0.44                                                                                                                                                                                      | 130                             | 4230                         | -                       | 3160     |                      |             |
| 0.51                                                                                                                                                                                      | 130                             | 4230                         | -                       | 2763     |                      |             |
| 0.58                                                                                                                                                                                      | 130                             | 4230                         | -                       | 2414     |                      |             |
| 0.66                                                                                                                                                                                      | 130                             | 4230                         | -                       | 2110     |                      |             |
| 0.75                                                                                                                                                                                      | 130                             | 4230                         | -                       | 1862     |                      |             |
| 0.86                                                                                                                                                                                      | 130                             | 4230                         | -                       | 1625     |                      |             |
| 0.98                                                                                                                                                                                      | 130                             | 4230                         | -                       | 1434     |                      |             |
| 1.1                                                                                                                                                                                       | 130                             | 4230                         | -                       | 1254     |                      |             |
|  <b>2</b>  <b>3</b>     |                                 |                              |                         |          |                      |             |
| 0.77                                                                                                                                                                                      | 130                             | 4230                         | -                       | 1822     |                      |             |
| 0.89                                                                                                                                                                                      | 130                             | 4230                         | -                       | 1580     |                      |             |
| 0.96                                                                                                                                                                                      | 130                             | 4230                         | -                       | 1464     |                      |             |
| 1.1                                                                                                                                                                                       | 130                             | 4230                         | -                       | 1270     |                      |             |
| 1.3                                                                                                                                                                                       | 130                             | 4230                         | -                       | 1100     |                      |             |
| 1.4                                                                                                                                                                                       | 130                             | 4230                         | -                       | 972      |                      |             |
| 1.7                                                                                                                                                                                       | 130                             | 4230                         | -                       | 840      |                      |             |
| 1.9                                                                                                                                                                                       | 130                             | 4230                         | -                       | 741      |                      |             |
| 2.1                                                                                                                                                                                       | 130                             | 4230                         | -                       | 654      |                      |             |
| 2.5                                                                                                                                                                                       | 130                             | 4230                         | -                       | 566      |                      |             |
| 2.8                                                                                                                                                                                       | 130                             | 4230                         | -                       | 499      |                      |             |
|  <b>3</b>  <b>2</b> |                                 |                              |                         |          |                      |             |
| 1.3                                                                                                                                                                                       | 130                             | 4230                         | -                       | 1101     |                      |             |
| 1.5                                                                                                                                                                                       | 130                             | 4230                         | -                       | 962      |                      |             |
| 1.7                                                                                                                                                                                       | 130                             | 4230                         | -                       | 848      |                      |             |
| 1.9                                                                                                                                                                                       | 130                             | 4230                         | -                       | 743      |                      |             |
| 2.2                                                                                                                                                                                       | 130                             | 4230                         | -                       | 649      |                      |             |
| 2.5                                                                                                                                                                                       | 130                             | 4230                         | -                       | 567      |                      |             |
| 2.8                                                                                                                                                                                       | 130                             | 4230                         | -                       | 509      |                      |             |
| 3.2                                                                                                                                                                                       | 130                             | 4230                         | -                       | 432      |                      |             |
| 3.6                                                                                                                                                                                       | 130                             | 4230                         | -                       | 387      |                      |             |
| 4.1                                                                                                                                                                                       | 130                             | 4230                         | -                       | 339      |                      |             |
| 4.7                                                                                                                                                                                       | 130                             | 4230                         | -                       | 296      |                      |             |
| 5.4                                                                                                                                                                                       | 130                             | 4230                         | -                       | 259      |                      |             |
| 6.1                                                                                                                                                                                       | 130                             | 4230                         | -                       | 229      |                      |             |
| 7.0                                                                                                                                                                                       | 130                             | 4230                         | -                       | 200      |                      |             |
| 7.9                                                                                                                                                                                       | 130                             | 4230                         | -                       | 177      |                      |             |
| 8.4                                                                                                                                                                                       | 130                             | 4230                         | -                       | 166      |                      |             |
| 9.3                                                                                                                                                                                       | 130                             | 4230                         | -                       | 150      |                      |             |
| 9.9                                                                                                                                                                                       | 130                             | 4230                         | -                       | 141      |                      |             |
| 11                                                                                                                                                                                        | 130                             | 4230                         | -                       | 124      |                      |             |
| 13                                                                                                                                                                                        | 130                             | 4230                         | -                       | 110      |                      |             |
| 15                                                                                                                                                                                        | 130                             | 4230                         | -                       | 94       |                      |             |
|  <b>2</b>  <b>2</b> |                                 |                              |                         |          |                      |             |
| 3.2                                                                                                                                                                                       | 130                             | 4230                         | -                       | 440      |                      |             |
| 3.7                                                                                                                                                                                       | 130                             | 4230                         | -                       | 381      |                      |             |
| 4.3                                                                                                                                                                                       | 130                             | 4230                         | -                       | 329      |                      |             |
| 4.8                                                                                                                                                                                       | 130                             | 4230                         | -                       | 290      |                      |             |



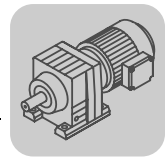
| R27R17, $n_e = 1400$ 1/min |                    |                 |                         |     | 130 Nm       |      |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 |
| 5.5                        | 130                | 4230            | -                       | 256 |              |      |
| 6.2                        | 130                | 4230            | -                       | 227 |              |      |
| 6.9                        | 130                | 4230            | -                       | 203 |              |      |
| 7.8                        | 130                | 4230            | -                       | 179 |              |      |
| 9.0                        | 130                | 4230            | -                       | 156 |              |      |
| 10                         | 130                | 4230            | -                       | 135 |              |      |
| 12                         | 130                | 4230            | -                       | 118 |              |      |
| 13                         | 130                | 4230            | -                       | 104 |              |      |
| 16                         | 130                | 4230            | -                       | 90  |              |      |

| R37, $n_e = 1400$ 1/min |                    |                 |                         |        | 200 Nm       |      |      |       |
|-------------------------|--------------------|-----------------|-------------------------|--------|--------------|------|------|-------|
| $n_a$<br>[1/min]        | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$    | DR63<br>DT71 | DT80 | DT90 | DV100 |
| 3                       |                    |                 |                         |        |              |      |      |       |
| 10                      | 200                | 4950            | 8                       | 134.82 |              |      |      |       |
| 11                      | 200                | 4950            | 8                       | 123.66 |              |      |      |       |
| 13                      | 200                | 4950            | 8                       | 105.28 |              |      |      |       |
| 15                      | 200                | 4950            | 8                       | 90.77  |              |      |      |       |
| 17                      | 200                | 4950            | 8                       | 84.61  |              |      |      |       |
| 19                      | 200                | 4950            | 8                       | 73.96  |              |      |      |       |
| 20                      | 200                | 4950            | 8                       | 69.33  |              |      |      |       |
| 23                      | 200                | 4950            | 8                       | 61.18  |              |      |      |       |
| 25                      | 200                | 4950            | 9                       | 55.76  |              |      |      |       |
| 29                      | 200                | 4950            | 9                       | 48.08  |              |      |      |       |
| 31                      | 200                | 4950            | 9                       | 44.81  |              |      |      |       |
| 36                      | 200                | 4760            | 9                       | 39.17  |              |      |      |       |
| 38                      | 200                | 4540            | 9                       | 36.72  |              |      |      |       |
| 43                      | 200                | 4120            | 9                       | 32.40  |              |      |      |       |
| 49                      | 200                | 3740            | 9                       | 28.73  |              |      |      |       |
| 57                      | 200                | 3240            | 9                       | 24.42  |              |      |      |       |
| 2                       |                    |                 |                         |        |              |      |      |       |
| 49                      | 200                | 3690            | 7                       | 28.32  |              |      |      |       |
| 54                      | 185                | 3860            | 7                       | 26.03  |              |      |      |       |
| 63                      | 200                | 2970            | 7                       | 22.27  |              |      |      |       |
| 73                      | 200                | 2570            | 7                       | 19.31  |              |      |      |       |
| 78                      | 200                | 2390            | 8                       | 18.05  |              |      |      |       |
| 90                      | 200                | 2010            | 8                       | 15.60  |              |      |      |       |
| 106                     | 190                | 1880            | 8                       | 13.25  |              |      |      |       |
| 118                     | 183                | 1810            | 8                       | 11.83  |              |      |      |       |
| 138                     | 170                | 1820            | 8                       | 10.11  |              |      |      |       |
| 148                     | 167                | 1760            | 8                       | 9.47   |              |      |      |       |
| 176                     | 156                | 1720            | 8                       | 7.97   |              |      |      |       |
| 210                     | 144                | 1000            | 12                      | 6.67   |              |      |      |       |
| 247                     | 142                | 760             | 12                      | 5.67   |              |      |      |       |
| 277                     | 135                | 790             | 13                      | 5.06   |              |      |      |       |
| 324                     | 126                | 820             | 13                      | 4.32   |              |      |      |       |
| 346                     | 122                | 850             | 13                      | 4.05   |              |      |      |       |
| 411                     | 112                | 900             | 14                      | 3.41   |              |      |      |       |

| R37R17, $n_e = 1400$ 1/min |                    |                 |                         |      | 200 Nm       |      |
|----------------------------|--------------------|-----------------|-------------------------|------|--------------|------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$  | DR63<br>DT71 | DT80 |
| 3  3                       |                    |                 |                         |      |              |      |
| 0.16                       | 200                | 4950            | -                       | 8595 |              |      |
| 0.19                       | 200                | 4950            | -                       | 7411 |              |      |
| 0.20                       | 200                | 4950            | -                       | 6907 |              |      |
| 0.23                       | 200                | 4950            | -                       | 6038 |              |      |

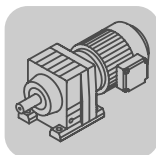


| <b>R37R17, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                 |                              |                        |          | <b>200 Nm</b>        |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|------------------------|----------|----------------------|-------------|
| <b>n<sub>a</sub></b><br>[1/min]                                                                                                                                                           | <b>M<sub>amax</sub></b><br>[Nm] | <b>F<sub>Ra</sub></b><br>[N] | <b>φ (/R)</b><br>[ ' ] | <b>i</b> | <b>DR63<br/>DT71</b> | <b>DT80</b> |
| 0.27                                                                                                                                                                                      | 200                             | 4950                         | -                      | 5206     |                      |             |
| 0.30                                                                                                                                                                                      | 200                             | 4950                         | -                      | 4651     |                      |             |
| 0.34                                                                                                                                                                                      | 200                             | 4950                         | -                      | 4065     |                      |             |
| 0.38                                                                                                                                                                                      | 200                             | 4950                         | -                      | 3658     |                      |             |
| 0.44                                                                                                                                                                                      | 200                             | 4950                         | -                      | 3154     |                      |             |
| 0.51                                                                                                                                                                                      | 200                             | 4950                         | -                      | 2757     |                      |             |
| 0.58                                                                                                                                                                                      | 200                             | 4950                         | -                      | 2409     |                      |             |
| 0.66                                                                                                                                                                                      | 200                             | 4950                         | -                      | 2106     |                      |             |
| 0.75                                                                                                                                                                                      | 200                             | 4950                         | -                      | 1856     |                      |             |
| 0.86                                                                                                                                                                                      | 200                             | 4950                         | -                      | 1622     |                      |             |
| 0.98                                                                                                                                                                                      | 200                             | 4950                         | -                      | 1431     |                      |             |
| 1.1                                                                                                                                                                                       | 200                             | 4950                         | -                      | 1251     |                      |             |
|  <b>2</b>  <b>3</b>     |                                 |                              |                        |          |                      |             |
| 0.77                                                                                                                                                                                      | 200                             | 4950                         | -                      | 1818     |                      |             |
| 0.89                                                                                                                                                                                      | 200                             | 4950                         | -                      | 1576     |                      |             |
| 1.0                                                                                                                                                                                       | 200                             | 4950                         | -                      | 1359     |                      |             |
| 1.1                                                                                                                                                                                       | 200                             | 4950                         | -                      | 1267     |                      |             |
| 1.3                                                                                                                                                                                       | 200                             | 4950                         | -                      | 1098     |                      |             |
| 1.4                                                                                                                                                                                       | 200                             | 4950                         | -                      | 970      |                      |             |
| 1.7                                                                                                                                                                                       | 200                             | 4950                         | -                      | 839      |                      |             |
| 1.9                                                                                                                                                                                       | 200                             | 4950                         | -                      | 740      |                      |             |
| 2.1                                                                                                                                                                                       | 200                             | 4950                         | -                      | 653      |                      |             |
| 2.4                                                                                                                                                                                       | 200                             | 4950                         | -                      | 577      |                      |             |
| 2.8                                                                                                                                                                                       | 200                             | 4950                         | -                      | 498      |                      |             |
|  <b>3</b>  <b>2</b> |                                 |                              |                        |          |                      |             |
| 1.3                                                                                                                                                                                       | 200                             | 4950                         | -                      | 1099     |                      |             |
| 1.5                                                                                                                                                                                       | 200                             | 4950                         | -                      | 960      |                      |             |
| 1.7                                                                                                                                                                                       | 200                             | 4950                         | -                      | 847      |                      |             |
| 1.9                                                                                                                                                                                       | 200                             | 4950                         | -                      | 741      |                      |             |
| 2.2                                                                                                                                                                                       | 200                             | 4950                         | -                      | 647      |                      |             |
| 2.5                                                                                                                                                                                       | 200                             | 4950                         | -                      | 566      |                      |             |
| 2.8                                                                                                                                                                                       | 200                             | 4950                         | -                      | 508      |                      |             |
| 3.2                                                                                                                                                                                       | 200                             | 4950                         | -                      | 431      |                      |             |
| 3.6                                                                                                                                                                                       | 200                             | 4950                         | -                      | 387      |                      |             |
| 4.1                                                                                                                                                                                       | 200                             | 4950                         | -                      | 338      |                      |             |
| 4.7                                                                                                                                                                                       | 200                             | 4950                         | -                      | 296      |                      |             |
| 5.4                                                                                                                                                                                       | 200                             | 4950                         | -                      | 259      |                      |             |
| 6.1                                                                                                                                                                                       | 200                             | 4950                         | -                      | 228      |                      |             |
| 7.0                                                                                                                                                                                       | 200                             | 4950                         | -                      | 199      |                      |             |
| 8.1                                                                                                                                                                                       | 200                             | 4950                         | -                      | 172      |                      |             |
| 9.3                                                                                                                                                                                       | 200                             | 4950                         | -                      | 150      |                      |             |
| 11                                                                                                                                                                                        | 200                             | 4950                         | -                      | 130      |                      |             |
| 11                                                                                                                                                                                        | 200                             | 4950                         | -                      | 124      |                      |             |
| 13                                                                                                                                                                                        | 200                             | 4950                         | -                      | 110      |                      |             |
| 15                                                                                                                                                                                        | 200                             | 4950                         | -                      | 94       |                      |             |
|  <b>2</b>  <b>2</b> |                                 |                              |                        |          |                      |             |
| 3.2                                                                                                                                                                                       | 200                             | 4950                         | -                      | 439      |                      |             |
| 3.7                                                                                                                                                                                       | 200                             | 4950                         | -                      | 378      |                      |             |
| 4.3                                                                                                                                                                                       | 200                             | 4950                         | -                      | 328      |                      |             |
| 4.8                                                                                                                                                                                       | 200                             | 4950                         | -                      | 289      |                      |             |
| 5.3                                                                                                                                                                                       | 200                             | 4950                         | -                      | 265      |                      |             |
| 6.2                                                                                                                                                                                       | 200                             | 4950                         | -                      | 226      |                      |             |
| 6.9                                                                                                                                                                                       | 200                             | 4950                         | -                      | 202      |                      |             |
| 7.8                                                                                                                                                                                       | 200                             | 4950                         | -                      | 179      |                      |             |
| 9.0                                                                                                                                                                                       | 200                             | 4950                         | -                      | 156      |                      |             |
| 10                                                                                                                                                                                        | 200                             | 4950                         | -                      | 135      |                      |             |

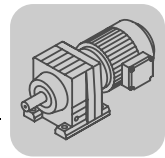


| R37R17, $n_e = 1400$ 1/min |                    |                 |                         |     | 200 Nm       |      |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 |
| 11                         | 200                | 4950            | -                       | 127 |              |      |
| 13                         | 200                | 4950            | -                       | 104 |              |      |
| 16                         | 200                | 4950            | -                       | 90  |              |      |

| R47, $n_e = 1400$ 1/min                                                               |                    |                 |                         |        | 300 Nm       |      |      |       |       |                  |
|---------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|--------|--------------|------|------|-------|-------|------------------|
| $n_a$<br>[1/min]                                                                      | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$    | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
|  3   |                    |                 |                         |        |              |      |      |       |       |                  |
| 7.9                                                                                   | 300                | 5420            | 7                       | 176.88 |              |      |      |       |       |                  |
| 8.6                                                                                   | 300                | 5420            | 7                       | 162.94 |              |      |      |       |       |                  |
| 10                                                                                    | 300                | 5420            | 7                       | 139.99 |              |      |      |       |       |                  |
| 11                                                                                    | 300                | 5420            | 7                       | 121.87 |              |      |      |       |       |                  |
| 12                                                                                    | 300                | 5420            | 7                       | 114.17 |              |      |      |       |       |                  |
| 14                                                                                    | 300                | 5420            | 7                       | 100.86 |              |      |      |       |       |                  |
| 15                                                                                    | 300                | 5420            | 7                       | 93.68  |              |      |      |       |       |                  |
| 16                                                                                    | 300                | 5420            | 7                       | 84.90  |              |      |      |       |       |                  |
| 18                                                                                    | 300                | 5420            | 7                       | 76.23  |              |      |      |       |       |                  |
| 20                                                                                    | 300                | 5420            | 8                       | 68.54  |              |      |      |       |       |                  |
| 22                                                                                    | 300                | 5420            | 8                       | 64.21  |              |      |      |       |       |                  |
| 25                                                                                    | 300                | 5420            | 8                       | 56.73  |              |      |      |       |       |                  |
| 27                                                                                    | 300                | 5350            | 8                       | 52.69  |              |      |      |       |       |                  |
| 29                                                                                    | 300                | 5150            | 8                       | 47.75  |              |      |      |       |       |                  |
| 33                                                                                    | 300                | 4930            | 8                       | 42.87  |              |      |      |       |       |                  |
| 38                                                                                    | 300                | 4630            | 8                       | 36.93  |              |      |      |       |       |                  |
| 40                                                                                    | 300                | 4520            | 8                       | 34.73  |              |      |      |       |       |                  |
| 47                                                                                    | 300                | 4240            | 8                       | 29.88  |              |      |      |       |       |                  |
| 52                                                                                    | 300                | 4050            | 8                       | 26.70  |              |      |      |       |       |                  |
| 59                                                                                    | 300                | 3840            | 8                       | 23.59  |              |      |      |       |       |                  |
|  2 |                    |                 |                         |        |              |      |      |       |       |                  |
| 41                                                                                    | 240                | 4690            | 7                       | 33.79  |              |      |      |       |       |                  |
| 45                                                                                    | 220                | 4610            | 7                       | 31.12  |              |      |      |       |       |                  |
| 52                                                                                    | 300                | 4050            | 7                       | 26.74  |              |      |      |       |       |                  |
| 60                                                                                    | 300                | 3820            | 7                       | 23.28  |              |      |      |       |       |                  |
| 64                                                                                    | 300                | 3710            | 7                       | 21.81  |              |      |      |       |       |                  |
| 73                                                                                    | 295                | 3530            | 7                       | 19.27  |              |      |      |       |       |                  |
| 78                                                                                    | 290                | 3390            | 7                       | 17.89  |              |      |      |       |       |                  |
| 86                                                                                    | 275                | 3350            | 7                       | 16.22  |              |      |      |       |       |                  |
| 96                                                                                    | 265                | 3230            | 7                       | 14.56  |              |      |      |       |       |                  |
| 112                                                                                   | 250                | 3080            | 7                       | 12.54  |              |      |      |       |       |                  |
| 119                                                                                   | 245                | 3020            | 7                       | 11.79  |              |      |      |       |       |                  |
| 138                                                                                   | 230                | 2890            | 7                       | 10.15  |              |      |      |       |       |                  |
| 154                                                                                   | 220                | 2780            | 8                       | 9.07   |              |      |      |       |       |                  |
| 175                                                                                   | 205                | 2690            | 8                       | 8.01   |              |      |      |       |       |                  |
| 180                                                                                   | 163                | 2720            | 10                      | 7.76*  |              |      |      |       |       |                  |
| 201                                                                                   | 159                | 2620            | 10                      | 6.96   |              |      |      |       |       |                  |
| 233                                                                                   | 156                | 2470            | 10                      | 6.00   |              |      |      |       |       |                  |
| 248                                                                                   | 155                | 2410            | 10                      | 5.64*  |              |      |      |       |       |                  |
| 289                                                                                   | 150                | 2280            | 10                      | 4.85   |              |      |      |       |       |                  |
| 323                                                                                   | 146                | 2190            | 11                      | 4.34   |              |      |      |       |       |                  |
| 366                                                                                   | 144                | 2090            | 11                      | 3.83   |              |      |      |       |       |                  |

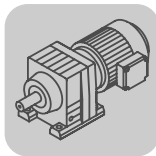


| <b>R47R37, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                 |                              |                        |          | <b>300 Nm</b>              |             |             |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|------------------------|----------|----------------------------|-------------|-------------|--------------|
| <b>n<sub>a</sub></b><br>[1/min]                                                                                                                                                           | <b>M<sub>amax</sub></b><br>[Nm] | <b>F<sub>Ra</sub></b><br>[N] | <b>φ (/R)</b><br>[ ' ] | <b>i</b> | <b>DR63</b><br><b>DT71</b> | <b>DT80</b> | <b>DT90</b> | <b>DV100</b> |
|  <b>3</b>  <b>3</b>     |                                 |                              |                        |          |                            |             |             |              |
| 0.10                                                                                                                                                                                      | 300                             | 5420                         | -                      | 13598    |                            |             |             |              |
| 0.11                                                                                                                                                                                      | 300                             | 5420                         | -                      | 12472    |                            |             |             |              |
| 0.13                                                                                                                                                                                      | 300                             | 5420                         | -                      | 10619    |                            |             |             |              |
| 0.15                                                                                                                                                                                      | 300                             | 5420                         | -                      | 9155     |                            |             |             |              |
| 0.16                                                                                                                                                                                      | 300                             | 5420                         | -                      | 8534     |                            |             |             |              |
| 0.19                                                                                                                                                                                      | 300                             | 5420                         | -                      | 7460     |                            |             |             |              |
| 0.20                                                                                                                                                                                      | 300                             | 5420                         | -                      | 6993     |                            |             |             |              |
| 0.23                                                                                                                                                                                      | 300                             | 5420                         | -                      | 6171     |                            |             |             |              |
| 0.25                                                                                                                                                                                      | 300                             | 5420                         | -                      | 5624     |                            |             |             |              |
| 0.29                                                                                                                                                                                      | 300                             | 5420                         | -                      | 4849     |                            |             |             |              |
| 0.31                                                                                                                                                                                      | 300                             | 5420                         | -                      | 4520     |                            |             |             |              |
| 0.35                                                                                                                                                                                      | 300                             | 5420                         | -                      | 3951     |                            |             |             |              |
| 0.38                                                                                                                                                                                      | 300                             | 5420                         | -                      | 3704     |                            |             |             |              |
| 0.43                                                                                                                                                                                      | 300                             | 5420                         | -                      | 3268     |                            |             |             |              |
| 0.48                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2898     |                            |             |             |              |
| 0.57                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2463     |                            |             |             |              |
|  <b>2</b>  <b>3</b>     |                                 |                              |                        |          |                            |             |             |              |
| 0.54                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2598     |                            |             |             |              |
| 0.59                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2383     |                            |             |             |              |
| 0.69                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2029     |                            |             |             |              |
| 0.80                                                                                                                                                                                      | 300                             | 5420                         | -                      | 1749     |                            |             |             |              |
| 0.86                                                                                                                                                                                      | 300                             | 5420                         | -                      | 1630     |                            |             |             |              |
| 0.98                                                                                                                                                                                      | 300                             | 5420                         | -                      | 1425     |                            |             |             |              |
| 1.0                                                                                                                                                                                       | 300                             | 5420                         | -                      | 1336     |                            |             |             |              |
| 1.2                                                                                                                                                                                       | 300                             | 5420                         | -                      | 1179     |                            |             |             |              |
| 1.3                                                                                                                                                                                       | 300                             | 5420                         | -                      | 1074     |                            |             |             |              |
| 1.5                                                                                                                                                                                       | 300                             | 5420                         | -                      | 927      |                            |             |             |              |
| 1.6                                                                                                                                                                                       | 300                             | 5420                         | -                      | 863      |                            |             |             |              |
| 1.9                                                                                                                                                                                       | 300                             | 5420                         | -                      | 755      |                            |             |             |              |
| 2.0                                                                                                                                                                                       | 300                             | 5420                         | -                      | 708      |                            |             |             |              |
| 2.2                                                                                                                                                                                       | 300                             | 5420                         | -                      | 624      |                            |             |             |              |
| 2.5                                                                                                                                                                                       | 300                             | 5420                         | -                      | 554      |                            |             |             |              |
| 3.0                                                                                                                                                                                       | 300                             | 5420                         | -                      | 471      |                            |             |             |              |
|  <b>3</b>  <b>2</b> |                                 |                              |                        |          |                            |             |             |              |
| 0.49                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2856     |                            |             |             |              |
| 0.53                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2625     |                            |             |             |              |
| 0.62                                                                                                                                                                                      | 300                             | 5420                         | -                      | 2246     |                            |             |             |              |
| 0.72                                                                                                                                                                                      | 300                             | 5420                         | -                      | 1948     |                            |             |             |              |
| 0.77                                                                                                                                                                                      | 300                             | 5420                         | -                      | 1821     |                            |             |             |              |
| 0.89                                                                                                                                                                                      | 300                             | 5420                         | -                      | 1573     |                            |             |             |              |
| 1.2                                                                                                                                                                                       | 300                             | 5420                         | -                      | 1193     |                            |             |             |              |
| 1.4                                                                                                                                                                                       | 300                             | 5420                         | -                      | 1020     |                            |             |             |              |
| 1.5                                                                                                                                                                                       | 300                             | 5420                         | -                      | 955      |                            |             |             |              |
| 1.7                                                                                                                                                                                       | 300                             | 5420                         | -                      | 804      |                            |             |             |              |
| 2.1                                                                                                                                                                                       | 300                             | 5420                         | -                      | 673      |                            |             |             |              |
| 2.4                                                                                                                                                                                       | 300                             | 5420                         | -                      | 572      |                            |             |             |              |
| 2.7                                                                                                                                                                                       | 300                             | 5420                         | -                      | 510      |                            |             |             |              |
| 3.2                                                                                                                                                                                       | 300                             | 5420                         | -                      | 436      |                            |             |             |              |
| 3.4                                                                                                                                                                                       | 300                             | 5420                         | -                      | 408      |                            |             |             |              |
| 4.1                                                                                                                                                                                       | 300                             | 5420                         | -                      | 344      |                            |             |             |              |
|  <b>2</b>  <b>2</b> |                                 |                              |                        |          |                            |             |             |              |
| 2.6                                                                                                                                                                                       | 300                             | 5420                         | -                      | 546      |                            |             |             |              |
| 2.8                                                                                                                                                                                       | 300                             | 5420                         | -                      | 502      |                            |             |             |              |
| 3.3                                                                                                                                                                                       | 300                             | 5420                         | -                      | 429      |                            |             |             |              |
| 3.8                                                                                                                                                                                       | 300                             | 5420                         | -                      | 372      |                            |             |             |              |

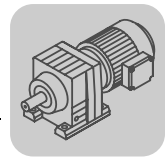


| R47R37, $n_e = 1400$ 1/min |                    |                 |                         |     | 300 Nm       |      |      |       |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|------|-------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | i   | DR63<br>DT71 | DT80 | DT90 | DV100 |
| 4.0                        | 300                | 5420            | -                       | 348 |              |      |      |       |
| 4.7                        | 300                | 5420            | -                       | 301 |              |      |      |       |
| 5.5                        | 300                | 5420            | -                       | 255 |              |      |      |       |
| 6.1                        | 300                | 5420            | -                       | 228 |              |      |      |       |
| 7.2                        | 300                | 5420            | -                       | 195 |              |      |      |       |
| 7.7                        | 300                | 5420            | -                       | 182 |              |      |      |       |
| 9.1                        | 300                | 5420            | -                       | 154 |              |      |      |       |
| 11                         | 300                | 5420            | -                       | 129 |              |      |      |       |
| 13                         | 300                | 5420            | -                       | 109 |              |      |      |       |
| 14                         | 300                | 5420            | -                       | 98  |              |      |      |       |

| R57, $n_e = 1400$ 1/min                                                               |                    |                 |                         |        | 450 Nm       |      |      |       |                           |
|---------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|--------|--------------|------|------|-------|---------------------------|
| $n_a$<br>[1/min]                                                                      | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | i      | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112<br>DV132S<br>DV132M |
|  3   |                    |                 |                         |        |              |      |      |       |                           |
| 7.5                                                                                   | 450                | 7110            | 7                       | 186.89 |              |      |      |       |                           |
| 8.1                                                                                   | 450                | 7110            | 7                       | 172.17 |              |      |      |       |                           |
| 9.5                                                                                   | 450                | 7110            | 7                       | 147.92 |              |      |      |       |                           |
| 11                                                                                    | 450                | 7110            | 7                       | 128.77 |              |      |      |       |                           |
| 12                                                                                    | 450                | 7110            | 7                       | 120.63 |              |      |      |       |                           |
| 13                                                                                    | 450                | 7110            | 7                       | 106.58 |              |      |      |       |                           |
| 14                                                                                    | 450                | 7110            | 7                       | 98.99  |              |      |      |       |                           |
| 16                                                                                    | 450                | 7110            | 7                       | 89.71  |              |      |      |       |                           |
| 17                                                                                    | 450                | 7110            | 7                       | 80.55  |              |      |      |       |                           |
| 20                                                                                    | 450                | 7110            | 7                       | 69.23  |              |      |      |       |                           |
| 22                                                                                    | 450                | 6980            | 8                       | 64.85  |              |      |      |       |                           |
| 24                                                                                    | 450                | 6630            | 8                       | 57.29  |              |      |      |       |                           |
| 26                                                                                    | 450                | 6430            | 8                       | 53.22  |              |      |      |       |                           |
| 29                                                                                    | 450                | 6170            | 8                       | 48.23  |              |      |      |       |                           |
| 32                                                                                    | 450                | 5900            | 8                       | 43.30  |              |      |      |       |                           |
| 38                                                                                    | 450                | 5530            | 8                       | 37.30* |              |      |      |       |                           |
| 40                                                                                    | 450                | 5390            | 8                       | 35.07  |              |      |      |       |                           |
| 46                                                                                    | 450                | 5050            | 8                       | 30.18  |              |      |      |       |                           |
| 52                                                                                    | 450                | 4800            | 8                       | 26.97  |              |      |      |       |                           |
|  2 |                    |                 |                         |        |              |      |      |       |                           |
| 53                                                                                    | 450                | 4750            | 6                       | 26.31  |              |      |      |       |                           |
| 56                                                                                    | 450                | 4640            | 6                       | 24.99* |              |      |      |       |                           |
| 64                                                                                    | 450                | 4370            | 7                       | 21.93  |              |      |      |       |                           |
| 75                                                                                    | 450                | 4050            | 7                       | 18.60* |              |      |      |       |                           |
| 83                                                                                    | 450                | 3860            | 7                       | 16.79  |              |      |      |       |                           |
| 95                                                                                    | 435                | 3690            | 7                       | 14.77* |              |      |      |       |                           |
| 100                                                                                   | 430                | 3610            | 7                       | 13.95* |              |      |      |       |                           |
| 118                                                                                   | 405                | 3430            | 7                       | 11.88  |              |      |      |       |                           |
| 130                                                                                   | 390                | 3330            | 7                       | 10.79  |              |      |      |       |                           |
| 150                                                                                   | 370                | 3180            | 7                       | 9.35   |              |      |      |       |                           |
| 155                                                                                   | 375                | 2010            | 9                       | 9.06   |              |      |      |       |                           |
| 176                                                                                   | 355                | 2020            | 9                       | 7.97   |              |      |      |       |                           |
| 186                                                                                   | 350                | 1950            | 9                       | 7.53   |              |      |      |       |                           |
| 218                                                                                   | 335                | 1770            | 9                       | 6.41   |              |      |      |       |                           |
| 241                                                                                   | 320                | 1820            | 10                      | 5.82   |              |      |      |       |                           |
| 277                                                                                   | 305                | 1730            | 10                      | 5.05   |              |      |      |       |                           |
| 319                                                                                   | 280                | 1900            | 10                      | 4.39   |              |      |      |       |                           |

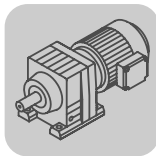


| <b>R57R37, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                 |                              |                        |          | <b>450 Nm</b>              |             |             |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|------------------------|----------|----------------------------|-------------|-------------|--------------|
| <b>n<sub>a</sub></b><br>[1/min]                                                                                                                                                           | <b>M<sub>amax</sub></b><br>[Nm] | <b>F<sub>Ra</sub></b><br>[N] | <b>φ (/R)</b><br>[ ' ] | <b>i</b> | <b>DR63</b><br><b>DT71</b> | <b>DT80</b> | <b>DT90</b> | <b>DV100</b> |
|  <b>3</b>  <b>3</b>     |                                 |                              |                        |          |                            |             |             |              |
| 0.10                                                                                                                                                                                      | 450                             | 7110                         | -                      | 14369    |                            |             |             |              |
| 0.12                                                                                                                                                                                      | 450                             | 7110                         | -                      | 12095    |                            |             |             |              |
| 0.13                                                                                                                                                                                      | 450                             | 7110                         | -                      | 10860    |                            |             |             |              |
| 0.15                                                                                                                                                                                      | 450                             | 7110                         | -                      | 9445     |                            |             |             |              |
| 0.17                                                                                                                                                                                      | 450                             | 7110                         | -                      | 8480     |                            |             |             |              |
| 0.19                                                                                                                                                                                      | 450                             | 7110                         | -                      | 7312     |                            |             |             |              |
| 0.21                                                                                                                                                                                      | 450                             | 7110                         | -                      | 6521     |                            |             |             |              |
| 0.25                                                                                                                                                                                      | 450                             | 7110                         | -                      | 5585     |                            |             |             |              |
| 0.28                                                                                                                                                                                      | 450                             | 7110                         | -                      | 4928     |                            |             |             |              |
| 0.32                                                                                                                                                                                      | 450                             | 7110                         | -                      | 4378     |                            |             |             |              |
| 0.36                                                                                                                                                                                      | 450                             | 7110                         | -                      | 3873     |                            |             |             |              |
| 0.42                                                                                                                                                                                      | 450                             | 7110                         | -                      | 3344     |                            |             |             |              |
| 0.48                                                                                                                                                                                      | 450                             | 7110                         | -                      | 2907     |                            |             |             |              |
| 0.55                                                                                                                                                                                      | 450                             | 7110                         | -                      | 2567     |                            |             |             |              |
| 0.62                                                                                                                                                                                      | 450                             | 7110                         | -                      | 2244     |                            |             |             |              |
| 0.71                                                                                                                                                                                      | 450                             | 7110                         | -                      | 1967     |                            |             |             |              |
|  <b>2</b>  <b>3</b>     |                                 |                              |                        |          |                            |             |             |              |
| 0.47                                                                                                                                                                                      | 450                             | 7110                         | -                      | 2957     |                            |             |             |              |
| 0.56                                                                                                                                                                                      | 450                             | 7110                         | -                      | 2508     |                            |             |             |              |
| 0.61                                                                                                                                                                                      | 450                             | 7110                         | -                      | 2309     |                            |             |             |              |
| 0.70                                                                                                                                                                                      | 450                             | 7110                         | -                      | 1991     |                            |             |             |              |
| 0.79                                                                                                                                                                                      | 450                             | 7110                         | -                      | 1768     |                            |             |             |              |
| 0.92                                                                                                                                                                                      | 450                             | 7110                         | -                      | 1520     |                            |             |             |              |
| 1.0                                                                                                                                                                                       | 450                             | 7110                         | -                      | 1342     |                            |             |             |              |
| 1.2                                                                                                                                                                                       | 450                             | 7110                         | -                      | 1164     |                            |             |             |              |
| 1.4                                                                                                                                                                                       | 450                             | 7110                         | -                      | 1027     |                            |             |             |              |
| 1.6                                                                                                                                                                                       | 450                             | 7110                         | -                      | 894      |                            |             |             |              |
| 1.7                                                                                                                                                                                       | 450                             | 7110                         | -                      | 805      |                            |             |             |              |
| 2.0                                                                                                                                                                                       | 450                             | 7110                         | -                      | 683      |                            |             |             |              |
| 2.3                                                                                                                                                                                       | 450                             | 7110                         | -                      | 603      |                            |             |             |              |
| 2.6                                                                                                                                                                                       | 450                             | 7110                         | -                      | 534      |                            |             |             |              |
| 3.1                                                                                                                                                                                       | 450                             | 7110                         | -                      | 454      |                            |             |             |              |
| 3.4                                                                                                                                                                                       | 450                             | 7110                         | -                      | 410      |                            |             |             |              |
|  <b>3</b>  <b>2</b> |                                 |                              |                        |          |                            |             |             |              |
| 0.81                                                                                                                                                                                      | 450                             | 7110                         | -                      | 1732     |                            |             |             |              |
| 0.90                                                                                                                                                                                      | 450                             | 7110                         | -                      | 1555     |                            |             |             |              |
| 1.0                                                                                                                                                                                       | 450                             | 7110                         | -                      | 1399     |                            |             |             |              |
| 1.2                                                                                                                                                                                       | 450                             | 7110                         | -                      | 1189     |                            |             |             |              |
| 1.4                                                                                                                                                                                       | 450                             | 7110                         | -                      | 1034     |                            |             |             |              |
| 1.8                                                                                                                                                                                       | 450                             | 7110                         | -                      | 782      |                            |             |             |              |
| 2.1                                                                                                                                                                                       | 450                             | 7110                         | -                      | 678      |                            |             |             |              |
| 2.3                                                                                                                                                                                       | 450                             | 7110                         | -                      | 604      |                            |             |             |              |
| 2.6                                                                                                                                                                                       | 450                             | 7110                         | -                      | 537      |                            |             |             |              |
| 3.0                                                                                                                                                                                       | 450                             | 7110                         | -                      | 471      |                            |             |             |              |
| 3.9                                                                                                                                                                                       | 450                             | 7110                         | -                      | 357      |                            |             |             |              |
| 4.4                                                                                                                                                                                       | 450                             | 7110                         | -                      | 319      |                            |             |             |              |
| 5.1                                                                                                                                                                                       | 450                             | 7110                         | -                      | 273      |                            |             |             |              |
| 5.8                                                                                                                                                                                       | 450                             | 7110                         | -                      | 241      |                            |             |             |              |
| 6.5                                                                                                                                                                                       | 450                             | 7110                         | -                      | 215      |                            |             |             |              |
| 7.5                                                                                                                                                                                       | 450                             | 7110                         | -                      | 187      |                            |             |             |              |
| 8.5                                                                                                                                                                                       | 450                             | 7110                         | -                      | 164      |                            |             |             |              |
| 9.9                                                                                                                                                                                       | 450                             | 7110                         | -                      | 142      |                            |             |             |              |
|  <b>2</b>  <b>2</b> |                                 |                              |                        |          |                            |             |             |              |
| 3.9                                                                                                                                                                                       | 450                             | 7110                         | -                      | 359      |                            |             |             |              |
| 4.3                                                                                                                                                                                       | 450                             | 7110                         | -                      | 324      |                            |             |             |              |

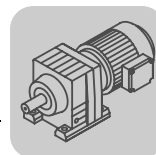


| R57R37, $n_e = 1400$ 1/min |                    |                 |                         |     | 450 Nm       |      |      |       |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|------|-------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 | DT90 | DV100 |
| 4.8                        | 450                | 7110            | -                       | 290 |              |      |      |       |
| 5.3                        | 450                | 7110            | -                       | 262 |              |      |      |       |
| 5.7                        | 450                | 7110            | -                       | 246 |              |      |      |       |
| 6.4                        | 450                | 7110            | -                       | 220 |              |      |      |       |
| 7.4                        | 450                | 7110            | -                       | 188 |              |      |      |       |
| 8.8                        | 450                | 7110            | -                       | 159 |              |      |      |       |
| 9.6                        | 450                | 7110            | -                       | 146 |              |      |      |       |
| 10                         | 450                | 7110            | -                       | 134 |              |      |      |       |

| R67, $n_e = 1400$ 1/min                                                               |                    |                 |                         |        | 600 Nm       |      |      |       |       |                  |
|---------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|--------|--------------|------|------|-------|-------|------------------|
| $n_a$<br>[1/min]                                                                      | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$    | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
|  3   |                    |                 |                         |        |              |      |      |       |       |                  |
| 7.0                                                                                   | 600                | 7560            | 6                       | 199.81 |              |      |      |       |       |                  |
| 7.6                                                                                   | 600                | 7560            | 6                       | 184.07 |              |      |      |       |       |                  |
| 8.9                                                                                   | 600                | 7560            | 6                       | 158.14 |              |      |      |       |       |                  |
| 10                                                                                    | 600                | 7560            | 6                       | 137.67 |              |      |      |       |       |                  |
| 11                                                                                    | 600                | 7560            | 6                       | 128.97 |              |      |      |       |       |                  |
| 12                                                                                    | 600                | 7560            | 6                       | 113.94 |              |      |      |       |       |                  |
| 13                                                                                    | 600                | 7560            | 6                       | 105.83 |              |      |      |       |       |                  |
| 15                                                                                    | 600                | 7560            | 6                       | 95.91  |              |      |      |       |       |                  |
| 16                                                                                    | 600                | 7560            | 6                       | 86.11  |              |      |      |       |       |                  |
| 19                                                                                    | 600                | 7560            | 7                       | 74.17  |              |      |      |       |       |                  |
| 20                                                                                    | 600                | 7560            | 7                       | 69.75  |              |      |      |       |       |                  |
| 23                                                                                    | 600                | 7560            | 7                       | 61.26  |              |      |      |       |       |                  |
| 25                                                                                    | 600                | 7560            | 7                       | 56.89  |              |      |      |       |       |                  |
| 27                                                                                    | 600                | 7560            | 7                       | 51.56  |              |      |      |       |       |                  |
| 30                                                                                    | 600                | 7560            | 7                       | 46.29  |              |      |      |       |       |                  |
| 35                                                                                    | 580                | 7790            | 7                       | 39.88* |              |      |      |       |       |                  |
| 37                                                                                    | 570                | 7900            | 7                       | 37.50  |              |      |      |       |       |                  |
| 43                                                                                    | 540                | 8210            | 7                       | 32.27  |              |      |      |       |       |                  |
| 49                                                                                    | 520                | 8400            | 7                       | 28.83  |              |      |      |       |       |                  |
|  2 |                    |                 |                         |        |              |      |      |       |       |                  |
| 50                                                                                    | 540                | 8210            | 6                       | 28.13  |              |      |      |       |       |                  |
| 52                                                                                    | 540                | 8210            | 6                       | 26.72  |              |      |      |       |       |                  |
| 60                                                                                    | 560                | 8010            | 6                       | 23.44  |              |      |      |       |       |                  |
| 70                                                                                    | 600                | 7560            | 6                       | 19.89  |              |      |      |       |       |                  |
| 78                                                                                    | 590                | 7330            | 6                       | 17.95  |              |      |      |       |       |                  |
| 89                                                                                    | 560                | 7130            | 6                       | 15.79  |              |      |      |       |       |                  |
| 94                                                                                    | 550                | 6980            | 6                       | 14.91  |              |      |      |       |       |                  |
| 110                                                                                   | 520                | 6650            | 6                       | 12.70  |              |      |      |       |       |                  |
| 121                                                                                   | 500                | 6500            | 7                       | 11.54  |              |      |      |       |       |                  |
| 140                                                                                   | 470                | 6220            | 7                       | 10.00  |              |      |      |       |       |                  |
| 161                                                                                   | 440                | 5960            | 7                       | 8.70*  |              |      |      |       |       |                  |
| 180                                                                                   | 380                | 5830            | 8                       | 7.79   |              |      |      |       |       |                  |
| 190                                                                                   | 370                | 5790            | 8                       | 7.36*  |              |      |      |       |       |                  |
| 223                                                                                   | 330                | 5590            | 9                       | 6.27   |              |      |      |       |       |                  |
| 246                                                                                   | 310                | 5450            | 9                       | 5.70   |              |      |      |       |       |                  |
| 284                                                                                   | 290                | 5210            | 9                       | 4.93   |              |      |      |       |       |                  |
| 326                                                                                   | 270                | 5000            | 10                      | 4.29   |              |      |      |       |       |                  |



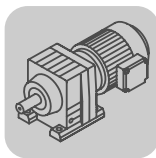
| <b>R67R37, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                 |                              |                        |          | <b>600 Nm</b>              |             |             |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|------------------------|----------|----------------------------|-------------|-------------|--------------|
| <b>n<sub>a</sub></b><br>[1/min]                                                                                                                                                           | <b>M<sub>amax</sub></b><br>[Nm] | <b>F<sub>Ra</sub></b><br>[N] | <b>φ (/R)</b><br>[ ' ] | <b>i</b> | <b>DR63</b><br><b>DT71</b> | <b>DT80</b> | <b>DT90</b> | <b>DV100</b> |
|  <b>3</b>  <b>3</b>     |                                 |                              |                        |          |                            |             |             |              |
| 0.09                                                                                                                                                                                      | 600                             | 7560                         | -                      | 15361    |                            |             |             |              |
| 0.11                                                                                                                                                                                      | 600                             | 7560                         | -                      | 12931    |                            |             |             |              |
| 0.12                                                                                                                                                                                      | 600                             | 7560                         | -                      | 11996    |                            |             |             |              |
| 0.14                                                                                                                                                                                      | 600                             | 7560                         | -                      | 10097    |                            |             |             |              |
| 0.15                                                                                                                                                                                      | 600                             | 7560                         | -                      | 9066     |                            |             |             |              |
| 0.18                                                                                                                                                                                      | 600                             | 7560                         | -                      | 7816     |                            |             |             |              |
| 0.21                                                                                                                                                                                      | 600                             | 7560                         | -                      | 6732     |                            |             |             |              |
| 0.23                                                                                                                                                                                      | 600                             | 7560                         | -                      | 5970     |                            |             |             |              |
| 0.27                                                                                                                                                                                      | 600                             | 7560                         | -                      | 5268     |                            |             |             |              |
| 0.30                                                                                                                                                                                      | 600                             | 7560                         | -                      | 4680     |                            |             |             |              |
| 0.34                                                                                                                                                                                      | 600                             | 7560                         | -                      | 4136     |                            |             |             |              |
| 0.39                                                                                                                                                                                      | 600                             | 7560                         | -                      | 3566     |                            |             |             |              |
| 0.45                                                                                                                                                                                      | 600                             | 7560                         | -                      | 3125     |                            |             |             |              |
| 0.51                                                                                                                                                                                      | 600                             | 7560                         | -                      | 2745     |                            |             |             |              |
| 0.58                                                                                                                                                                                      | 600                             | 7560                         | -                      | 2403     |                            |             |             |              |
|  <b>2</b>  <b>3</b>     |                                 |                              |                        |          |                            |             |             |              |
| 0.52                                                                                                                                                                                      | 600                             | 7560                         | -                      | 2682     |                            |             |             |              |
| 0.57                                                                                                                                                                                      | 600                             | 7560                         | -                      | 2460     |                            |             |             |              |
| 0.67                                                                                                                                                                                      | 600                             | 7560                         | -                      | 2094     |                            |             |             |              |
| 0.78                                                                                                                                                                                      | 600                             | 7560                         | -                      | 1805     |                            |             |             |              |
| 0.86                                                                                                                                                                                      | 600                             | 7560                         | -                      | 1629     |                            |             |             |              |
| 0.95                                                                                                                                                                                      | 600                             | 7560                         | -                      | 1471     |                            |             |             |              |
| 1.0                                                                                                                                                                                       | 600                             | 7560                         | -                      | 1379     |                            |             |             |              |
| 1.3                                                                                                                                                                                       | 600                             | 7560                         | -                      | 1109     |                            |             |             |              |
| 1.5                                                                                                                                                                                       | 600                             | 7560                         | -                      | 956      |                            |             |             |              |
| 1.6                                                                                                                                                                                       | 600                             | 7560                         | -                      | 891      |                            |             |             |              |
| 1.9                                                                                                                                                                                       | 600                             | 7560                         | -                      | 730      |                            |             |             |              |
| 2.2                                                                                                                                                                                       | 600                             | 7560                         | -                      | 644      |                            |             |             |              |
| 2.5                                                                                                                                                                                       | 600                             | 7560                         | -                      | 571      |                            |             |             |              |
| 2.9                                                                                                                                                                                       | 600                             | 7560                         | -                      | 486      |                            |             |             |              |
|  <b>3</b>  <b>2</b> |                                 |                              |                        |          |                            |             |             |              |
| 0.66                                                                                                                                                                                      | 600                             | 7560                         | -                      | 2136     |                            |             |             |              |
| 0.76                                                                                                                                                                                      | 600                             | 7560                         | -                      | 1852     |                            |             |             |              |
| 0.85                                                                                                                                                                                      | 600                             | 7560                         | -                      | 1652     |                            |             |             |              |
| 0.98                                                                                                                                                                                      | 600                             | 7560                         | -                      | 1432     |                            |             |             |              |
| 1.1                                                                                                                                                                                       | 600                             | 7560                         | -                      | 1259     |                            |             |             |              |
| 1.3                                                                                                                                                                                       | 600                             | 7560                         | -                      | 1106     |                            |             |             |              |
| 1.7                                                                                                                                                                                       | 600                             | 7560                         | -                      | 836      |                            |             |             |              |
| 1.9                                                                                                                                                                                       | 600                             | 7560                         | -                      | 750      |                            |             |             |              |
| 2.2                                                                                                                                                                                       | 600                             | 7560                         | -                      | 646      |                            |             |             |              |
| 2.4                                                                                                                                                                                       | 600                             | 7560                         | -                      | 574      |                            |             |             |              |
| 2.8                                                                                                                                                                                       | 600                             | 7560                         | -                      | 495      |                            |             |             |              |
| 3.2                                                                                                                                                                                       | 600                             | 7560                         | -                      | 438      |                            |             |             |              |
| 3.6                                                                                                                                                                                       | 600                             | 7560                         | -                      | 388      |                            |             |             |              |
| 4.1                                                                                                                                                                                       | 600                             | 7560                         | -                      | 344      |                            |             |             |              |
| 4.8                                                                                                                                                                                       | 600                             | 7560                         | -                      | 294      |                            |             |             |              |
| 5.4                                                                                                                                                                                       | 600                             | 7560                         | -                      | 261      |                            |             |             |              |
| 6.0                                                                                                                                                                                       | 600                             | 7560                         | -                      | 234      |                            |             |             |              |
| 7.0                                                                                                                                                                                       | 600                             | 7560                         | -                      | 200      |                            |             |             |              |
| 8.0                                                                                                                                                                                       | 600                             | 7560                         | -                      | 176      |                            |             |             |              |
| 8.9                                                                                                                                                                                       | 600                             | 7560                         | -                      | 158      |                            |             |             |              |
|  <b>2</b>  <b>2</b> |                                 |                              |                        |          |                            |             |             |              |
| 3.2                                                                                                                                                                                       | 600                             | 7560                         | -                      | 443      |                            |             |             |              |
| 3.6                                                                                                                                                                                       | 600                             | 7560                         | -                      | 384      |                            |             |             |              |
| 3.9                                                                                                                                                                                       | 600                             | 7560                         | -                      | 359      |                            |             |             |              |



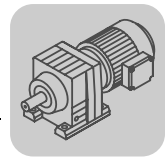
| R67R37, $n_e = 1400$ 1/min |                    |                 |                         |     |              | 600 Nm |      |       |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|--------|------|-------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80   | DT90 | DV100 |
| 4.5                        | 600                | 7560            | -                       | 310 |              |        |      |       |
| 5.3                        | 600                | 7560            | -                       | 264 |              |        |      |       |
| 6.0                        | 600                | 7560            | -                       | 235 |              |        |      |       |
| 7.0                        | 600                | 7560            | -                       | 201 |              |        |      |       |
| 7.7                        | 600                | 7560            | -                       | 181 |              |        |      |       |
| 8.8                        | 600                | 7560            | -                       | 159 |              |        |      |       |

| R77, $n_e = 1400$ 1/min                                                               |                    |                 |                         |         |              | 820 Nm |      |       |       |                  |                   |
|---------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|---------|--------------|--------|------|-------|-------|------------------|-------------------|
| $n_a$<br>[1/min]                                                                      | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$     | DR63<br>DT71 | DT80   | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
|  3   |                    |                 |                         |         |              |        |      |       |       |                  |                   |
| 7.2                                                                                   | 820                | 9920            | 6                       | 195.24* |              |        |      |       |       |                  |                   |
| 8.4                                                                                   | 820                | 9920            | 6                       | 166.59  |              |        |      |       |       |                  |                   |
| 9.6                                                                                   | 820                | 9920            | 6                       | 145.67  |              |        |      |       |       |                  |                   |
| 10                                                                                    | 820                | 9920            | 6                       | 138.39  |              |        |      |       |       |                  |                   |
| 12                                                                                    | 820                | 9920            | 6                       | 121.42  |              |        |      |       |       |                  |                   |
| 14                                                                                    | 820                | 9920            | 6                       | 102.99  |              |        |      |       |       |                  |                   |
| 15                                                                                    | 820                | 9920            | 6                       | 92.97   |              |        |      |       |       |                  |                   |
| 17                                                                                    | 820                | 9920            | 6                       | 81.80   |              |        |      |       |       |                  |                   |
| 18                                                                                    | 820                | 9920            | 7                       | 77.24   |              |        |      |       |       |                  |                   |
| 21                                                                                    | 820                | 9920            | 7                       | 65.77   |              |        |      |       |       |                  |                   |
| 24                                                                                    | 820                | 9920            | 7                       | 57.68   |              |        |      |       |       |                  |                   |
| 27                                                                                    | 820                | 9920            | 7                       | 52.07   |              |        |      |       |       |                  |                   |
| 31                                                                                    | 820                | 9920            | 7                       | 45.81   |              |        |      |       |       |                  |                   |
| 32                                                                                    | 820                | 9920            | 7                       | 43.26   |              |        |      |       |       |                  |                   |
| 38                                                                                    | 820                | 9920            | 7                       | 36.83   |              |        |      |       |       |                  |                   |
| 42                                                                                    | 820                | 9920            | 7                       | 33.47   |              |        |      |       |       |                  |                   |
| 48                                                                                    | 820                | 9920            | 7                       | 29.00   |              |        |      |       |       |                  |                   |
| 55                                                                                    | 780                | 10100           | 7                       | 25.23   |              |        |      |       |       |                  |                   |
|  2 |                    |                 |                         |         |              |        |      |       |       |                  |                   |
| 60                                                                                    | 820                | 8870            | 6                       | 23.37   |              |        |      |       |       |                  |                   |
| 65                                                                                    | 820                | 8250            | 6                       | 21.43   |              |        |      |       |       |                  |                   |
| 74                                                                                    | 780                | 7980            | 6                       | 18.80   |              |        |      |       |       |                  |                   |
| 79                                                                                    | 780                | 7620            | 6                       | 17.82*  |              |        |      |       |       |                  |                   |
| 90                                                                                    | 740                | 7390            | 6                       | 15.60   |              |        |      |       |       |                  |                   |
| 100                                                                                   | 720                | 7050            | 6                       | 14.05   |              |        |      |       |       |                  |                   |
| 114                                                                                   | 690                | 6740            | 6                       | 12.33   |              |        |      |       |       |                  |                   |
| 129                                                                                   | 660                | 6490            | 7                       | 10.88   |              |        |      |       |       |                  |                   |
| 145                                                                                   | 630                | 6300            | 7                       | 9.64    |              |        |      |       |       |                  |                   |
| 163                                                                                   | 630                | 4110            | 7                       | 8.59    |              |        |      |       |       |                  |                   |
| 181                                                                                   | 610                | 3940            | 8                       | 7.74    |              |        |      |       |       |                  |                   |
| 206                                                                                   | 580                | 3850            | 8                       | 6.79    |              |        |      |       |       |                  |                   |
| 234                                                                                   | 540                | 3990            | 8                       | 5.99*   |              |        |      |       |       |                  |                   |
| 264                                                                                   | 510                | 3990            | 8                       | 5.31*   |              |        |      |       |       |                  |                   |

| R77R37, $n_e = 1400$ 1/min                                                                                                                                                  |                    |                 |                         |       |              | 820 Nm |      |       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|-------|--------------|--------|------|-------|--|
| $n_a$<br>[1/min]                                                                                                                                                            | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DR63<br>DT71 | DT80   | DT90 | DV100 |  |
|  3  3 |                    |                 |                         |       |              |        |      |       |  |
| 0.09                                                                                                                                                                        | 820                | 9920            | -                       | 16370 |              |        |      |       |  |
| 0.09                                                                                                                                                                        | 820                | 9920            | -                       | 15015 |              |        |      |       |  |
| 0.10                                                                                                                                                                        | 820                | 9920            | -                       | 13885 |              |        |      |       |  |
| 0.11                                                                                                                                                                        | 820                | 9920            | -                       | 12783 |              |        |      |       |  |
| 0.13                                                                                                                                                                        | 820                | 9920            | -                       | 11021 |              |        |      |       |  |
| 0.14                                                                                                                                                                        | 820                | 9920            | -                       | 9788  |              |        |      |       |  |
| 0.16                                                                                                                                                                        | 820                | 9920            | -                       | 8714  |              |        |      |       |  |
| 0.18                                                                                                                                                                        | 820                | 9920            | -                       | 7617  |              |        |      |       |  |



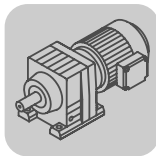
| <b>R77R37, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                        |                                     |                               |          | <b>820 Nm</b>              |             |             |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|-------------------------------|----------|----------------------------|-------------|-------------|--------------|
| <b>n<sub>a</sub></b><br><b>[1/min]</b>                                                                                                                                                    | <b>M<sub>amax</sub></b><br><b>[Nm]</b> | <b>F<sub>Ra</sub></b><br><b>[N]</b> | <b>φ (/R)</b><br><b>[ ' ]</b> | <b>i</b> | <b>DR63</b><br><b>DT71</b> | <b>DT80</b> | <b>DT90</b> | <b>DV100</b> |
| 0.21                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 6770     |                            |             |             |              |
| 0.24                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 5838     |                            |             |             |              |
| 0.27                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 5184     |                            |             |             |              |
| 0.31                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 4470     |                            |             |             |              |
| 0.35                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 3999     |                            |             |             |              |
| 0.40                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 3488     |                            |             |             |              |
| 0.46                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 3053     |                            |             |             |              |
| 0.52                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 2671     |                            |             |             |              |
|  <b>2</b>  <b>3</b>     |                                        |                                     |                               |          |                            |             |             |              |
| 0.44                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 3151     |                            |             |             |              |
| 0.48                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 2890     |                            |             |             |              |
| 0.57                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 2460     |                            |             |             |              |
| 0.66                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 2121     |                            |             |             |              |
| 0.71                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 1977     |                            |             |             |              |
| 0.81                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 1728     |                            |             |             |              |
| 0.86                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 1620     |                            |             |             |              |
| 0.98                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 1430     |                            |             |             |              |
| 1.1                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 1303     |                            |             |             |              |
| 1.2                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 1124     |                            |             |             |              |
| 1.3                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 1047     |                            |             |             |              |
| 1.5                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 915      |                            |             |             |              |
| 1.6                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 858      |                            |             |             |              |
| 1.8                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 757      |                            |             |             |              |
| 2.1                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 671      |                            |             |             |              |
| 2.5                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 571      |                            |             |             |              |
|  <b>3</b>  <b>2</b> |                                        |                                     |                               |          |                            |             |             |              |
| 0.60                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 2345     |                            |             |             |              |
| 0.68                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 2070     |                            |             |             |              |
| 0.77                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 1822     |                            |             |             |              |
| 0.89                                                                                                                                                                                      | 820                                    | 9920                                | -                             | 1580     |                            |             |             |              |
| 1.0                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 1394     |                            |             |             |              |
| 1.1                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 1218     |                            |             |             |              |
| 1.3                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 1084     |                            |             |             |              |
| 1.5                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 940      |                            |             |             |              |
| 1.7                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 821      |                            |             |             |              |
| 1.9                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 731      |                            |             |             |              |
| 2.2                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 646      |                            |             |             |              |
| 2.5                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 560      |                            |             |             |              |
| 2.9                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 488      |                            |             |             |              |
| 3.2                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 436      |                            |             |             |              |
| 3.8                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 373      |                            |             |             |              |
| 4.3                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 327      |                            |             |             |              |
| 4.8                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 289      |                            |             |             |              |
| 5.4                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 260      |                            |             |             |              |
| 6.2                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 224      |                            |             |             |              |
| 7.1                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 197      |                            |             |             |              |
| 8.3                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 169      |                            |             |             |              |
| 9.4                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 149      |                            |             |             |              |
|  <b>2</b>  <b>2</b> |                                        |                                     |                               |          |                            |             |             |              |
| 2.7                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 520      |                            |             |             |              |
| 3.1                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 451      |                            |             |             |              |
| 3.3                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 422      |                            |             |             |              |
| 3.8                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 365      |                            |             |             |              |
| 4.5                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 310      |                            |             |             |              |
| 5.1                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 276      |                            |             |             |              |
| 5.9                                                                                                                                                                                       | 820                                    | 9920                                | -                             | 236      |                            |             |             |              |



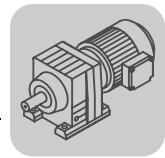
| R77R37, $n_e = 1400$ 1/min |                    |                 |                         |     | 820 Nm       |      |      |       |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|------|-------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 | DT90 | DV100 |
| 6.3                        | 820                | 9920            | -                       | 221 |              |      |      |       |
| 7.5                        | 820                | 9920            | -                       | 186 |              |      |      |       |

| R87, $n_e = 1400$ 1/min |                    |                 |                         |         | 1550 Nm |      |       |       |                  |                             |       |
|-------------------------|--------------------|-----------------|-------------------------|---------|---------|------|-------|-------|------------------|-----------------------------|-------|
| $n_a$<br>[1/min]        | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$     | DT80    | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 |
| 3                       |                    |                 |                         |         |         |      |       |       |                  |                             |       |
| 5.7                     | 1550               | 16900           | 6                       | 246.54  |         |      |       |       |                  |                             |       |
| 6.5                     | 1550               | 16900           | 6                       | 216.54  |         |      |       |       |                  |                             |       |
| 6.8                     | 1550               | 16900           | 6                       | 205.71  |         |      |       |       |                  |                             |       |
| 7.7                     | 1550               | 16900           | 6                       | 181.77  |         |      |       |       |                  |                             |       |
| 9.0                     | 1550               | 16900           | 6                       | 155.34  |         |      |       |       |                  |                             |       |
| 9.8                     | 1550               | 16900           | 6                       | 142.41  |         |      |       |       |                  |                             |       |
| 11                      | 1550               | 16900           | 6                       | 124.97  |         |      |       |       |                  |                             |       |
| 12                      | 1550               | 16900           | 6                       | 118.43* |         |      |       |       |                  |                             |       |
| 14                      | 1550               | 16900           | 6                       | 103.65  |         |      |       |       |                  |                             |       |
| 15                      | 1550               | 16900           | 6                       | 93.38   |         |      |       |       |                  |                             |       |
| 17                      | 1550               | 16900           | 6                       | 81.92   |         |      |       |       |                  |                             |       |
| 19                      | 1550               | 16900           | 6                       | 72.57   |         |      |       |       |                  |                             |       |
| 22                      | 1550               | 15800           | 6                       | 63.68*  |         |      |       |       |                  |                             |       |
| 23                      | 1550               | 15200           | 6                       | 60.35*  |         |      |       |       |                  |                             |       |
| 27                      | 1550               | 13500           | 6                       | 52.82   |         |      |       |       |                  |                             |       |
| 29                      | 1550               | 16900           | 7                       | 47.58   |         |      |       |       |                  |                             |       |
| 34                      | 1550               | 16900           | 7                       | 41.74   |         |      |       |       |                  |                             |       |
| 38                      | 1550               | 16800           | 7                       | 36.84*  |         |      |       |       |                  |                             |       |
| 43                      | 1550               | 16000           | 7                       | 32.66*  |         |      |       |       |                  |                             |       |
| 50                      | 1500               | 15100           | 7                       | 27.88   |         |      |       |       |                  |                             |       |
| 2                       |                    |                 |                         |         |         |      |       |       |                  |                             |       |
| 41                      | 1500               | 9480            | 5                       | 34.40*  |         |      |       |       |                  |                             |       |
| 45                      | 1550               | 7820            | 5                       | 31.40   |         |      |       |       |                  |                             |       |
| 50                      | 1550               | 15000           | 6                       | 27.84*  |         |      |       |       |                  |                             |       |
| 60                      | 1550               | 13900           | 6                       | 23.40   |         |      |       |       |                  |                             |       |
| 65                      | 1500               | 13600           | 6                       | 21.51   |         |      |       |       |                  |                             |       |
| 73                      | 1440               | 13000           | 6                       | 19.10   |         |      |       |       |                  |                             |       |
| 82                      | 1390               | 12600           | 6                       | 17.08*  |         |      |       |       |                  |                             |       |
| 91                      | 1340               | 12100           | 6                       | 15.35   |         |      |       |       |                  |                             |       |
| 105                     | 1280               | 11600           | 6                       | 13.33   |         |      |       |       |                  |                             |       |
| 117                     | 1230               | 11200           | 6                       | 11.93   |         |      |       |       |                  |                             |       |
| 141                     | 1180               | 10400           | 6                       | 9.90*   |         |      |       |       |                  |                             |       |
| 153                     | 1210               | 10500           | 6                       | 9.14*   |         |      |       |       |                  |                             |       |
| 170                     | 1160               | 10200           | 7                       | 8.22    |         |      |       |       |                  |                             |       |
| 196                     | 1070               | 9780            | 7                       | 7.13    |         |      |       |       |                  |                             |       |
| 219                     | 1020               | 9450            | 7                       | 6.39    |         |      |       |       |                  |                             |       |
| 264                     | 910                | 8980            | 7                       | 5.30*   |         |      |       |       |                  |                             |       |

| R87R57, n <sub>e</sub> = 1400 1/min                                                                                                                                         |                           |                        |                 |       |              |      |      |       |       | 1550 Nm          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|
| n <sub>a</sub><br>[1/min]                                                                                                                                                   | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (/R)<br>[ ' ] | i     | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
|  3  3 |                           |                        |                 |       |              |      |      |       |       |                  |
| 0.08                                                                                                                                                                        | 1550                      | 16900                  | -               | 17452 |              |      |      |       |       |                  |
| 0.09                                                                                                                                                                        | 1550                      | 16900                  | -               | 15310 |              |      |      |       |       |                  |
| 0.10                                                                                                                                                                        | 1550                      | 16900                  | -               | 13813 |              |      |      |       |       |                  |
| 0.12                                                                                                                                                                        | 1550                      | 16900                  | -               | 12025 |              |      |      |       |       |                  |
| 0.13                                                                                                                                                                        | 1550                      | 16900                  | -               | 10549 |              |      |      |       |       |                  |
| 0.15                                                                                                                                                                        | 1550                      | 16900                  | -               | 9244  |              |      |      |       |       |                  |
| 0.17                                                                                                                                                                        | 1550                      | 16900                  | -               | 8109  |              |      |      |       |       |                  |



| <b>R87R57, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                   |                           |                        |                  |      |              |      |      |       |       | <b>1550 Nm</b>   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|------------------|------|--------------|------|------|-------|-------|------------------|
| n <sub>a</sub><br>[1/min]                                                                                                                                                   | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (°/R)<br>[ ' ] | i    | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
| 0.20                                                                                                                                                                        | 1550                      | 16900                  | -                | 7038 |              |      |      |       |       |                  |
| 0.23                                                                                                                                                                        | 1550                      | 16900                  | -                | 6174 |              |      |      |       |       |                  |
| 0.26                                                                                                                                                                        | 1550                      | 16900                  | -                | 5449 |              |      |      |       |       |                  |
| 0.29                                                                                                                                                                        | 1550                      | 16900                  | -                | 4831 |              |      |      |       |       |                  |
| 0.33                                                                                                                                                                        | 1550                      | 16900                  | -                | 4206 |              |      |      |       |       |                  |
| 0.37                                                                                                                                                                        | 1550                      | 16900                  | -                | 3744 |              |      |      |       |       |                  |
| 0.43                                                                                                                                                                        | 1550                      | 16900                  | -                | 3233 |              |      |      |       |       |                  |
| 0.49                                                                                                                                                                        | 1550                      | 16900                  | -                | 2873 |              |      |      |       |       |                  |
| 0.56                                                                                                                                                                        | 1550                      | 16900                  | -                | 2518 |              |      |      |       |       |                  |
| 0.63                                                                                                                                                                        | 1550                      | 16900                  | -                | 2209 |              |      |      |       |       |                  |
| 0.71                                                                                                                                                                        | 1550                      | 16900                  | -                | 1961 |              |      |      |       |       |                  |
| 1.4                                                                                                                                                                         | 1550                      | 16900                  | -                | 994  |              |      |      |       |       |                  |
| 1.6                                                                                                                                                                         | 1550                      | 16900                  | -                | 881  |              |      |      |       |       |                  |
|  2  3     |                           |                        |                  |      |              |      |      |       |       |                  |
| 0.35                                                                                                                                                                        | 1550                      | 16900                  | -                | 4020 |              |      |      |       |       |                  |
| 0.38                                                                                                                                                                        | 1550                      | 16900                  | -                | 3703 |              |      |      |       |       |                  |
| 0.44                                                                                                                                                                        | 1550                      | 16900                  | -                | 3182 |              |      |      |       |       |                  |
| 0.51                                                                                                                                                                        | 1550                      | 16900                  | -                | 2770 |              |      |      |       |       |                  |
| 0.54                                                                                                                                                                        | 1550                      | 16900                  | -                | 2595 |              |      |      |       |       |                  |
| 0.66                                                                                                                                                                        | 1550                      | 16900                  | -                | 2129 |              |      |      |       |       |                  |
| 0.73                                                                                                                                                                        | 1550                      | 16900                  | -                | 1930 |              |      |      |       |       |                  |
| 0.81                                                                                                                                                                        | 1550                      | 16900                  | -                | 1733 |              |      |      |       |       |                  |
| 0.94                                                                                                                                                                        | 1550                      | 16900                  | -                | 1489 |              |      |      |       |       |                  |
| 1.0                                                                                                                                                                         | 1550                      | 16900                  | -                | 1395 |              |      |      |       |       |                  |
| 1.1                                                                                                                                                                         | 1550                      | 16900                  | -                | 1232 |              |      |      |       |       |                  |
| 1.2                                                                                                                                                                         | 1550                      | 16900                  | -                | 1145 |              |      |      |       |       |                  |
| 1.4                                                                                                                                                                         | 1550                      | 16900                  | -                | 1037 |              |      |      |       |       |                  |
| 1.5                                                                                                                                                                         | 1550                      | 16900                  | -                | 931  |              |      |      |       |       |                  |
| 1.7                                                                                                                                                                         | 1550                      | 16900                  | -                | 802  |              |      |      |       |       |                  |
| 1.9                                                                                                                                                                         | 1550                      | 16900                  | -                | 754  |              |      |      |       |       |                  |
| 2.2                                                                                                                                                                         | 1550                      | 16900                  | -                | 649  |              |      |      |       |       |                  |
| 2.4                                                                                                                                                                         | 1550                      | 16900                  | -                | 580  |              |      |      |       |       |                  |
|  3  2 |                           |                        |                  |      |              |      |      |       |       |                  |
| 0.81                                                                                                                                                                        | 1550                      | 16900                  | -                | 1737 |              |      |      |       |       |                  |
| 0.92                                                                                                                                                                        | 1550                      | 16900                  | -                | 1524 |              |      |      |       |       |                  |
| 1.1                                                                                                                                                                         | 1550                      | 16900                  | -                | 1303 |              |      |      |       |       |                  |
| 1.2                                                                                                                                                                         | 1550                      | 16900                  | -                | 1143 |              |      |      |       |       |                  |
| 1.4                                                                                                                                                                         | 1550                      | 16900                  | -                | 1008 |              |      |      |       |       |                  |
| 1.6                                                                                                                                                                         | 1550                      | 16900                  | -                | 885  |              |      |      |       |       |                  |
| 1.8                                                                                                                                                                         | 1550                      | 16900                  | -                | 776  |              |      |      |       |       |                  |
| 2.0                                                                                                                                                                         | 1550                      | 16900                  | -                | 685  |              |      |      |       |       |                  |
| 2.3                                                                                                                                                                         | 1550                      | 16900                  | -                | 599  |              |      |      |       |       |                  |
| 2.7                                                                                                                                                                         | 1550                      | 16900                  | -                | 525  |              |      |      |       |       |                  |
| 3.1                                                                                                                                                                         | 1550                      | 16900                  | -                | 456  |              |      |      |       |       |                  |
| 3.5                                                                                                                                                                         | 1550                      | 16900                  | -                | 398  |              |      |      |       |       |                  |
| 4.0                                                                                                                                                                         | 1550                      | 16900                  | -                | 352  |              |      |      |       |       |                  |
| 4.6                                                                                                                                                                         | 1550                      | 16900                  | -                | 305  |              |      |      |       |       |                  |
| 5.2                                                                                                                                                                         | 1550                      | 16900                  | -                | 268  |              |      |      |       |       |                  |
| 5.9                                                                                                                                                                         | 1550                      | 16900                  | -                | 236  |              |      |      |       |       |                  |
| 6.7                                                                                                                                                                         | 1550                      | 16900                  | -                | 209  |              |      |      |       |       |                  |
|  2  2 |                           |                        |                  |      |              |      |      |       |       |                  |
| 2.6                                                                                                                                                                         | 1550                      | 16900                  | -                | 538  |              |      |      |       |       |                  |
| 3.0                                                                                                                                                                         | 1550                      | 16900                  | -                | 472  |              |      |      |       |       |                  |
| 3.5                                                                                                                                                                         | 1550                      | 16900                  | -                | 400  |              |      |      |       |       |                  |
| 3.9                                                                                                                                                                         | 1550                      | 16900                  | -                | 361  |              |      |      |       |       |                  |
| 4.7                                                                                                                                                                         | 1550                      | 16900                  | -                | 300  |              |      |      |       |       |                  |

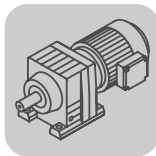


| R87R57, $n_e = 1400$ 1/min |                    |                 |                         |     |              |      |      |       |       | 1550 Nm          |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|------|-------|-------|------------------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
| 5.5                        | 1550               | 16900           | -                       | 256 |              |      |      |       |       |                  |
| 6.0                        | 1550               | 16900           | -                       | 232 |              |      |      |       |       |                  |
| 7.2                        | 1550               | 16900           | -                       | 195 |              |      |      |       |       |                  |

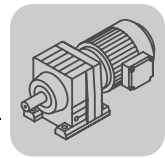
| R97, $n_e = 1400$ 1/min                                                             |                    |                 |                         |        |      |      |       |       |                  |                             |       | 3000 Nm |
|-------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|--------|------|------|-------|-------|------------------|-----------------------------|-------|---------|
| $n_a$<br>[1/min]                                                                    | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$    | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 | DV200   |
|  3 |                    |                 |                         |        |      |      |       |       |                  |                             |       |         |
| 4.8                                                                                 | 3000               | 19800           | 6                       | 289.74 |      |      |       |       |                  |                             |       |         |
| 5.5                                                                                 | 3000               | 19800           | 6                       | 255.71 |      |      |       |       |                  |                             |       |         |
| 5.8                                                                                 | 3000               | 19800           | 6                       | 241.25 |      |      |       |       |                  |                             |       |         |
| 6.5                                                                                 | 3000               | 19800           | 6                       | 216.28 |      |      |       |       |                  |                             |       |         |
| 7.5                                                                                 | 3000               | 19800           | 6                       | 186.30 |      |      |       |       |                  |                             |       |         |
| 8.2                                                                                 | 3000               | 19800           | 6                       | 170.02 |      |      |       |       |                  |                             |       |         |
| 9.3                                                                                 | 3000               | 19800           | 6                       | 150.78 |      |      |       |       |                  |                             |       |         |
| 11                                                                                  | 3000               | 19800           | 6                       | 126.75 |      |      |       |       |                  |                             |       |         |
| 12                                                                                  | 3000               | 19800           | 6                       | 116.48 |      |      |       |       |                  |                             |       |         |
| 14                                                                                  | 3000               | 19800           | 6                       | 103.44 |      |      |       |       |                  |                             |       |         |
| 15                                                                                  | 3000               | 19800           | 6                       | 92.48  |      |      |       |       |                  |                             |       |         |
| 17                                                                                  | 3000               | 19800           | 6                       | 83.15  |      |      |       |       |                  |                             |       |         |
| 19                                                                                  | 3000               | 18000           | 6                       | 72.17  |      |      |       |       |                  |                             |       |         |
| 21                                                                                  | 3000               | 19800           | 6                       | 65.21  |      |      |       |       |                  |                             |       |         |
| 23                                                                                  | 3000               | 19800           | 6                       | 59.92  |      |      |       |       |                  |                             |       |         |
| 26                                                                                  | 3000               | 19800           | 6                       | 53.21  |      |      |       |       |                  |                             |       |         |
| 29                                                                                  | 3000               | 19800           | 6                       | 47.58  |      |      |       |       |                  |                             |       |         |
| 33                                                                                  | 3000               | 19800           | 6                       | 42.78  |      |      |       |       |                  |                             |       |         |
| 38                                                                                  | 3000               | 18600           | 6                       | 37.13  |      |      |       |       |                  |                             |       |         |
| 42                                                                                  | 2890               | 17900           | 6                       | 33.25  |      |      |       |       |                  |                             |       |         |
| 51                                                                                  | 2670               | 16900           | 6                       | 27.58  |      |      |       |       |                  |                             |       |         |

|                                                                                       |      |       |   |       |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------|------|-------|---|-------|--|--|--|--|--|--|--|--|
|  2 |      |       |   |       |  |  |  |  |  |  |  |  |
| 44                                                                                    | 2560 | 10600 | 5 | 32.05 |  |  |  |  |  |  |  |  |
| 51                                                                                    | 2560 | 8380  | 5 | 27.19 |  |  |  |  |  |  |  |  |
| 56                                                                                    | 2830 | 15900 | 5 | 25.03 |  |  |  |  |  |  |  |  |
| 63                                                                                    | 2720 | 15300 | 5 | 22.37 |  |  |  |  |  |  |  |  |
| 70                                                                                    | 2610 | 14800 | 5 | 20.14 |  |  |  |  |  |  |  |  |
| 77                                                                                    | 2500 | 14400 | 6 | 18.24 |  |  |  |  |  |  |  |  |
| 87                                                                                    | 2400 | 13800 | 6 | 16.17 |  |  |  |  |  |  |  |  |
| 96                                                                                    | 2300 | 13400 | 6 | 14.62 |  |  |  |  |  |  |  |  |
| 113                                                                                   | 2190 | 12700 | 6 | 12.39 |  |  |  |  |  |  |  |  |
| 129                                                                                   | 2090 | 12100 | 6 | 10.83 |  |  |  |  |  |  |  |  |
| 151                                                                                   | 2030 | 12200 | 6 | 9.29  |  |  |  |  |  |  |  |  |
| 167                                                                                   | 2030 | 11700 | 6 | 8.39  |  |  |  |  |  |  |  |  |
| 197                                                                                   | 2000 | 10900 | 6 | 7.12  |  |  |  |  |  |  |  |  |
| 225                                                                                   | 1890 | 10500 | 6 | 6.21  |  |  |  |  |  |  |  |  |
| 269                                                                                   | 1780 | 9850  | 6 | 5.20  |  |  |  |  |  |  |  |  |
| 311                                                                                   | 1630 | 9500  | 6 | 4.50* |  |  |  |  |  |  |  |  |

| R97R57, $n_e = 1400$ 1/min                                                                                                                                                  |                    |                 |                         |       |              |      |      |       |       | 3000 Nm          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|-------|--------------|------|------|-------|-------|------------------|
| $n_a$<br>[1/min]                                                                                                                                                            | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
|  3  3 |                    |                 |                         |       |              |      |      |       |       |                  |
| 0.06                                                                                                                                                                        | 3000               | 19800           | -                       | 21769 |              |      |      |       |       |                  |
| 0.07                                                                                                                                                                        | 3000               | 19800           | -                       | 19332 |              |      |      |       |       |                  |
| 0.08                                                                                                                                                                        | 3000               | 19800           | -                       | 17230 |              |      |      |       |       |                  |
| 0.09                                                                                                                                                                        | 3000               | 19800           | -                       | 14999 |              |      |      |       |       |                  |
| 0.11                                                                                                                                                                        | 3000               | 19800           | -                       | 13320 |              |      |      |       |       |                  |



| <b>R97R57, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                                 |                                 |                              |                         |          | <b>3000 Nm</b>             |             |             |              |              |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|-------------------------|----------|----------------------------|-------------|-------------|--------------|--------------|--------------------------------|
| <b>n<sub>a</sub></b><br>[1/min]                                                                                                                                                           | <b>M<sub>amax</sub></b><br>[Nm] | <b>F<sub>Ra</sub></b><br>[N] | <b>φ (°/R)</b><br>[ ' ] | <b>i</b> | <b>DR63</b><br><b>DT71</b> | <b>DT80</b> | <b>DT90</b> | <b>DV100</b> | <b>DV112</b> | <b>DV132S</b><br><b>DV132M</b> |
| 0.13                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 11156    |                            |             |             |              |              |                                |
| 0.14                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 10030    |                            |             |             |              |              |                                |
| 0.16                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 8706     |                            |             |             |              |              |                                |
| 0.18                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 7692     |                            |             |             |              |              |                                |
| 0.21                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 6708     |                            |             |             |              |              |                                |
| 0.24                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 5931     |                            |             |             |              |              |                                |
| 0.27                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 5161     |                            |             |             |              |              |                                |
| 0.31                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 4559     |                            |             |             |              |              |                                |
| 0.35                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 4004     |                            |             |             |              |              |                                |
| 0.40                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 3481     |                            |             |             |              |              |                                |
|  <b>2</b>  <b>3</b>     |                                 |                              |                         |          |                            |             |             |              |              |                                |
| 0.30                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 4678     |                            |             |             |              |              |                                |
| 0.32                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 4309     |                            |             |             |              |              |                                |
| 0.38                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 3702     |                            |             |             |              |              |                                |
| 0.46                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 3019     |                            |             |             |              |              |                                |
| 0.52                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 2668     |                            |             |             |              |              |                                |
| 0.62                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 2245     |                            |             |             |              |              |                                |
| 0.69                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 2016     |                            |             |             |              |              |                                |
| 0.81                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 1733     |                            |             |             |              |              |                                |
| 0.86                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 1623     |                            |             |             |              |              |                                |
| 0.98                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 1434     |                            |             |             |              |              |                                |
| 1.2                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 1207     |                            |             |             |              |              |                                |
| 1.3                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 1084     |                            |             |             |              |              |                                |
| 1.5                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 934      |                            |             |             |              |              |                                |
| 1.6                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 878      |                            |             |             |              |              |                                |
| 1.9                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 755      |                            |             |             |              |              |                                |
|  <b>3</b>  <b>2</b> |                                 |                              |                         |          |                            |             |             |              |              |                                |
| 0.46                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 3065     |                            |             |             |              |              |                                |
| 0.51                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 2722     |                            |             |             |              |              |                                |
| 0.61                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 2311     |                            |             |             |              |              |                                |
| 0.67                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 2078     |                            |             |             |              |              |                                |
| 0.77                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 1823     |                            |             |             |              |              |                                |
| 0.88                                                                                                                                                                                      | 3000                            | 19800                        | -                       | 1583     |                            |             |             |              |              |                                |
| 1.0                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 1396     |                            |             |             |              |              |                                |
| 1.1                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 1228     |                            |             |             |              |              |                                |
| 1.3                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 1069     |                            |             |             |              |              |                                |
| 1.5                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 938      |                            |             |             |              |              |                                |
| 1.7                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 824      |                            |             |             |              |              |                                |
| 1.9                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 737      |                            |             |             |              |              |                                |
| 2.2                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 632      |                            |             |             |              |              |                                |
| 2.5                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 560      |                            |             |             |              |              |                                |
| 2.9                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 484      |                            |             |             |              |              |                                |
| 3.2                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 431      |                            |             |             |              |              |                                |
| 3.7                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 379      |                            |             |             |              |              |                                |
| 4.2                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 336      |                            |             |             |              |              |                                |
| 4.7                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 296      |                            |             |             |              |              |                                |
| 5.6                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 249      |                            |             |             |              |              |                                |
| 6.0                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 234      |                            |             |             |              |              |                                |
| 6.7                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 209      |                            |             |             |              |              |                                |
|  <b>2</b>  <b>2</b> |                                 |                              |                         |          |                            |             |             |              |              |                                |
| 2.2                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 625      |                            |             |             |              |              |                                |
| 2.6                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 549      |                            |             |             |              |              |                                |
| 3.0                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 466      |                            |             |             |              |              |                                |
| 3.3                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 420      |                            |             |             |              |              |                                |
| 3.8                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 370      |                            |             |             |              |              |                                |
| 4.0                                                                                                                                                                                       | 3000                            | 19800                        | -                       | 349      |                            |             |             |              |              |                                |

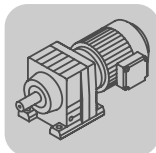


| R97R57, $n_e = 1400$ 1/min |                    |                 |                         |     |              |      |      |       |       | 3000 Nm          |
|----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|------|-------|-------|------------------|
| $n_a$<br>[1/min]           | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M |
| 4.7                        | 3000               | 19800           | -                       | 297 |              |      |      |       |       |                  |
| 5.2                        | 3000               | 19800           | -                       | 270 |              |      |      |       |       |                  |
| 6.2                        | 3000               | 19800           | -                       | 227 |              |      |      |       |       |                  |

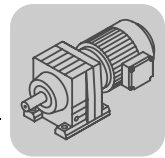
| R107, $n_e = 1400$ 1/min |                    |                 |                         |     |       |       |                  |                             |       | 4300 Nm                   |
|--------------------------|--------------------|-----------------|-------------------------|-----|-------|-------|------------------|-----------------------------|-------|---------------------------|
| $n_a$<br>[1/min]         | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M |

|                                                                                       |      |       |   |        |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------|------|-------|---|--------|--|--|--|--|--|--|
|  3   |      |       |   |        |  |  |  |  |  |  |
| 5.6                                                                                   | 4300 | 29500 | 7 | 251.15 |  |  |  |  |  |  |
| 6.1                                                                                   | 4300 | 29500 | 7 | 229.95 |  |  |  |  |  |  |
| 6.9                                                                                   | 4300 | 29500 | 7 | 203.16 |  |  |  |  |  |  |
| 8.1                                                                                   | 4300 | 29500 | 7 | 172.34 |  |  |  |  |  |  |
| 8.8                                                                                   | 4300 | 29500 | 7 | 158.68 |  |  |  |  |  |  |
| 9.9                                                                                   | 4300 | 29500 | 7 | 141.83 |  |  |  |  |  |  |
| 11                                                                                    | 4300 | 29500 | 7 | 127.68 |  |  |  |  |  |  |
| 12                                                                                    | 4300 | 29500 | 7 | 115.63 |  |  |  |  |  |  |
| 14                                                                                    | 4300 | 29500 | 7 | 102.53 |  |  |  |  |  |  |
| 15                                                                                    | 4300 | 29500 | 7 | 92.70  |  |  |  |  |  |  |
| 18                                                                                    | 4300 | 29500 | 7 | 78.57  |  |  |  |  |  |  |
| 19                                                                                    | 4300 | 29500 | 7 | 72.88  |  |  |  |  |  |  |
| 21                                                                                    | 4300 | 29200 | 7 | 65.60* |  |  |  |  |  |  |
| 24                                                                                    | 4300 | 28000 | 7 | 59.41  |  |  |  |  |  |  |
| 27                                                                                    | 4300 | 26600 | 7 | 52.68  |  |  |  |  |  |  |
| 29                                                                                    | 4300 | 25500 | 7 | 47.63  |  |  |  |  |  |  |
| 35                                                                                    | 4300 | 23800 | 7 | 40.37* |  |  |  |  |  |  |
| 40                                                                                    | 4300 | 22400 | 7 | 35.26  |  |  |  |  |  |  |
| 47                                                                                    | 4300 | 20700 | 7 | 29.49  |  |  |  |  |  |  |
|  2 |      |       |   |        |  |  |  |  |  |  |
| 45                                                                                    | 4300 | 21100 | 7 | 30.77  |  |  |  |  |  |  |
| 51                                                                                    | 4300 | 20100 | 7 | 27.58  |  |  |  |  |  |  |
| 56                                                                                    | 4300 | 19200 | 7 | 24.90* |  |  |  |  |  |  |
| 62                                                                                    | 4300 | 18300 | 7 | 22.62  |  |  |  |  |  |  |
| 70                                                                                    | 4300 | 17300 | 7 | 20.07  |  |  |  |  |  |  |
| 77                                                                                    | 4300 | 16600 | 7 | 18.21  |  |  |  |  |  |  |
| 89                                                                                    | 4300 | 15400 | 7 | 15.65  |  |  |  |  |  |  |
| 102                                                                                   | 4300 | 14400 | 7 | 13.66  |  |  |  |  |  |  |
| 121                                                                                   | 4300 | 13300 | 7 | 11.59  |  |  |  |  |  |  |
| 138                                                                                   | 4300 | 12400 | 7 | 10.13  |  |  |  |  |  |  |
| 164                                                                                   | 4300 | 11300 | 7 | 8.56   |  |  |  |  |  |  |
| 178                                                                                   | 2970 | 13800 | 9 | 7.86   |  |  |  |  |  |  |
| 210                                                                                   | 2970 | 12800 | 9 | 6.66   |  |  |  |  |  |  |
| 241                                                                                   | 2970 | 12100 | 9 | 5.82   |  |  |  |  |  |  |
| 285                                                                                   | 2900 | 11300 | 9 | 4.92   |  |  |  |  |  |  |

| R107R77, n <sub>e</sub> = 1400 1/min                                                                                                                                        |                           |                        |                 |       |              |      |      |       |       | 4300 Nm          |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| n <sub>a</sub><br>[1/min]                                                                                                                                                   | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (°R)<br>[ ' ] | i     | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
|  3  3 |                           |                        |                 |       |              |      |      |       |       |                  |                   |
| 0.07                                                                                                                                                                        | 4300                      | 29500                  | -               | 20018 |              |      |      |       |       |                  |                   |
| 0.08                                                                                                                                                                        | 4300                      | 29500                  | -               | 17080 |              |      |      |       |       |                  |                   |
| 0.09                                                                                                                                                                        | 4300                      | 29500                  | -               | 14936 |              |      |      |       |       |                  |                   |
| 0.11                                                                                                                                                                        | 4300                      | 29500                  | -               | 12829 |              |      |      |       |       |                  |                   |
| 0.12                                                                                                                                                                        | 4300                      | 29500                  | -               | 11256 |              |      |      |       |       |                  |                   |
| 0.15                                                                                                                                                                        | 4300                      | 29500                  | -               | 9547  |              |      |      |       |       |                  |                   |
| 0.16                                                                                                                                                                        | 4300                      | 29500                  | -               | 8618  |              |      |      |       |       |                  |                   |
| 0.18                                                                                                                                                                        | 4300                      | 29500                  | -               | 7583  |              |      |      |       |       |                  |                   |



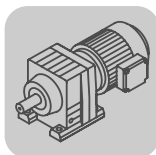
| <b>R107R77, n<sub>e</sub> = 1400 1/min</b>                                                                                                                                  |                           |                        |                |      |              | <b>4300 Nm</b> |      |       |       |                  |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|----------------|------|--------------|----------------|------|-------|-------|------------------|-------------------|
| n <sub>a</sub><br>[1/min]                                                                                                                                                   | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (f/R)<br>[°] | i    | DR63<br>DT71 | DT80           | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
| 0.21                                                                                                                                                                        | 4300                      | 29500                  | -              | 6743 |              |                |      |       |       |                  |                   |
| 0.24                                                                                                                                                                        | 4300                      | 29500                  | -              | 5914 |              |                |      |       |       |                  |                   |
| 0.27                                                                                                                                                                        | 4300                      | 29500                  | -              | 5168 |              |                |      |       |       |                  |                   |
| 0.32                                                                                                                                                                        | 4300                      | 29500                  | -              | 4435 |              |                |      |       |       |                  |                   |
| 0.36                                                                                                                                                                        | 4300                      | 29500                  | -              | 3896 |              |                |      |       |       |                  |                   |
| 0.41                                                                                                                                                                        | 4300                      | 29500                  | -              | 3432 |              |                |      |       |       |                  |                   |
| 0.46                                                                                                                                                                        | 4300                      | 29500                  | -              | 3039 |              |                |      |       |       |                  |                   |
| 0.52                                                                                                                                                                        | 4300                      | 29500                  | -              | 2688 |              |                |      |       |       |                  |                   |
| 0.60                                                                                                                                                                        | 4300                      | 29500                  | -              | 2339 |              |                |      |       |       |                  |                   |
|  2  3     |                           |                        |                |      |              |                |      |       |       |                  |                   |
| 0.36                                                                                                                                                                        | 4300                      | 29500                  | -              | 3918 |              |                |      |       |       |                  |                   |
| 0.42                                                                                                                                                                        | 4300                      | 29500                  | -              | 3343 |              |                |      |       |       |                  |                   |
| 0.46                                                                                                                                                                        | 4300                      | 29500                  | -              | 3034 |              |                |      |       |       |                  |                   |
| 0.53                                                                                                                                                                        | 4300                      | 29500                  | -              | 2653 |              |                |      |       |       |                  |                   |
| 0.61                                                                                                                                                                        | 4300                      | 29500                  | -              | 2280 |              |                |      |       |       |                  |                   |
| 0.68                                                                                                                                                                        | 4300                      | 29500                  | -              | 2067 |              |                |      |       |       |                  |                   |
| 0.83                                                                                                                                                                        | 4300                      | 29500                  | -              | 1693 |              |                |      |       |       |                  |                   |
| 0.90                                                                                                                                                                        | 4300                      | 29500                  | -              | 1550 |              |                |      |       |       |                  |                   |
| 1.0                                                                                                                                                                         | 4300                      | 29500                  | -              | 1407 |              |                |      |       |       |                  |                   |
| 1.2                                                                                                                                                                         | 4300                      | 29500                  | -              | 1209 |              |                |      |       |       |                  |                   |
| 1.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 1055 |              |                |      |       |       |                  |                   |
| 1.5                                                                                                                                                                         | 4300                      | 29500                  | -              | 919  |              |                |      |       |       |                  |                   |
| 1.7                                                                                                                                                                         | 4300                      | 29500                  | -              | 815  |              |                |      |       |       |                  |                   |
| 2.0                                                                                                                                                                         | 4300                      | 29500                  | -              | 717  |              |                |      |       |       |                  |                   |
| 2.2                                                                                                                                                                         | 4300                      | 29500                  | -              | 626  |              |                |      |       |       |                  |                   |
| 2.7                                                                                                                                                                         | 4300                      | 29500                  | -              | 528  |              |                |      |       |       |                  |                   |
|  3  2 |                           |                        |                |      |              |                |      |       |       |                  |                   |
| 0.70                                                                                                                                                                        | 4300                      | 29500                  | -              | 1987 |              |                |      |       |       |                  |                   |
| 0.77                                                                                                                                                                        | 4300                      | 29500                  | -              | 1827 |              |                |      |       |       |                  |                   |
| 0.88                                                                                                                                                                        | 4300                      | 29500                  | -              | 1599 |              |                |      |       |       |                  |                   |
| 1.0                                                                                                                                                                         | 4300                      | 29500                  | -              | 1400 |              |                |      |       |       |                  |                   |
| 1.1                                                                                                                                                                         | 4300                      | 29500                  | -              | 1226 |              |                |      |       |       |                  |                   |
| 1.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 1104 |              |                |      |       |       |                  |                   |
| 1.5                                                                                                                                                                         | 4300                      | 29500                  | -              | 939  |              |                |      |       |       |                  |                   |
| 1.7                                                                                                                                                                         | 4300                      | 29500                  | -              | 822  |              |                |      |       |       |                  |                   |
| 2.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 614  |              |                |      |       |       |                  |                   |
| 2.6                                                                                                                                                                         | 4300                      | 29500                  | -              | 544  |              |                |      |       |       |                  |                   |
| 2.8                                                                                                                                                                         | 4300                      | 29500                  | -              | 492  |              |                |      |       |       |                  |                   |
| 3.4                                                                                                                                                                         | 4300                      | 29500                  | -              | 417  |              |                |      |       |       |                  |                   |
| 3.8                                                                                                                                                                         | 4300                      | 29500                  | -              | 369  |              |                |      |       |       |                  |                   |
| 4.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 323  |              |                |      |       |       |                  |                   |
| 4.9                                                                                                                                                                         | 4300                      | 29500                  | -              | 285  |              |                |      |       |       |                  |                   |
| 5.5                                                                                                                                                                         | 4300                      | 29500                  | -              | 253  |              |                |      |       |       |                  |                   |
| 6.5                                                                                                                                                                         | 4300                      | 29500                  | -              | 214  |              |                |      |       |       |                  |                   |
| 7.5                                                                                                                                                                         | 4300                      | 29500                  | -              | 187  |              |                |      |       |       |                  |                   |
|  2  2 |                           |                        |                |      |              |                |      |       |       |                  |                   |
| 3.0                                                                                                                                                                         | 4300                      | 29500                  | -              | 469  |              |                |      |       |       |                  |                   |
| 3.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 426  |              |                |      |       |       |                  |                   |
| 3.7                                                                                                                                                                         | 4300                      | 29500                  | -              | 377  |              |                |      |       |       |                  |                   |
| 4.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 325  |              |                |      |       |       |                  |                   |
| 4.9                                                                                                                                                                         | 4300                      | 29500                  | -              | 284  |              |                |      |       |       |                  |                   |
| 5.5                                                                                                                                                                         | 4300                      | 29500                  | -              | 256  |              |                |      |       |       |                  |                   |
| 6.4                                                                                                                                                                         | 4300                      | 29500                  | -              | 220  |              |                |      |       |       |                  |                   |
| 7.3                                                                                                                                                                         | 4300                      | 29500                  | -              | 193  |              |                |      |       |       |                  |                   |
| 8.1                                                                                                                                                                         | 4300                      | 29500                  | -              | 172  |              |                |      |       |       |                  |                   |



| R137, $n_e = 1400$ 1/min                                                             |                    |                 |                         |         | 8000 Nm          |                             |       |                           |                 |
|--------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|---------|------------------|-----------------------------|-------|---------------------------|-----------------|
| $n_a$<br>[1/min]                                                                     | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$     | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M | DV250M<br>DV280 |
|  3  |                    |                 |                         |         |                  |                             |       |                           |                 |
| 6.3                                                                                  | 8000               | 53400           | 6                       | 222.60* |                  |                             |       |                           |                 |
| 7.4                                                                                  | 8000               | 53400           | 6                       | 188.45  |                  |                             |       |                           |                 |
| 8.0                                                                                  | 8000               | 53400           | 6                       | 174.40* |                  |                             |       |                           |                 |
| 9.0                                                                                  | 8000               | 53400           | 6                       | 156.31  |                  |                             |       |                           |                 |
| 9.9                                                                                  | 8000               | 53400           | 6                       | 141.12* |                  |                             |       |                           |                 |
| 11                                                                                   | 8000               | 53400           | 6                       | 128.18  |                  |                             |       |                           |                 |
| 12                                                                                   | 8000               | 53400           | 6                       | 113.72  |                  |                             |       |                           |                 |
| 14                                                                                   | 8000               | 53400           | 6                       | 103.20* |                  |                             |       |                           |                 |
| 16                                                                                   | 8000               | 53400           | 6                       | 88.70*  |                  |                             |       |                           |                 |
| 17                                                                                   | 8000               | 53400           | 6                       | 80.91*  |                  |                             |       |                           |                 |
| 19                                                                                   | 8000               | 53400           | 6                       | 73.49   |                  |                             |       |                           |                 |
| 21                                                                                   | 8000               | 53400           | 6                       | 65.20   |                  |                             |       |                           |                 |
| 24                                                                                   | 8000               | 53400           | 6                       | 59.17*  |                  |                             |       |                           |                 |
| 28                                                                                   | 8000               | 53400           | 6                       | 50.86*  |                  |                             |       |                           |                 |
| 32                                                                                   | 8000               | 53400           | 6                       | 44.39   |                  |                             |       |                           |                 |
| 37                                                                                   | 8000               | 53400           | 6                       | 37.65   |                  |                             |       |                           |                 |
| 43                                                                                   | 8000               | 53400           | 6                       | 32.91   |                  |                             |       |                           |                 |
| 50                                                                                   | 7680               | 54100           | 7                       | 27.83   |                  |                             |       |                           |                 |
|  2 |                    |                 |                         |         |                  |                             |       |                           |                 |
| 47                                                                                   | 7780               | 53900           | 6                       | 29.57*  |                  |                             |       |                           |                 |
| 58                                                                                   | 8000               | 49400           | 6                       | 24.12   |                  |                             |       |                           |                 |
| 64                                                                                   | 8000               | 47100           | 6                       | 22.00*  |                  |                             |       |                           |                 |
| 74                                                                                   | 8000               | 43500           | 6                       | 19.04*  |                  |                             |       |                           |                 |
| 83                                                                                   | 8000               | 40600           | 6                       | 16.80*  |                  |                             |       |                           |                 |
| 96                                                                                   | 8000               | 37300           | 6                       | 14.51   |                  |                             |       |                           |                 |
| 109                                                                                  | 8000               | 34700           | 6                       | 12.83   |                  |                             |       |                           |                 |
| 130                                                                                  | 8000               | 31100           | 6                       | 10.79   |                  |                             |       |                           |                 |
| 161                                                                                  | 7840               | 27600           | 6                       | 8.71    |                  |                             |       |                           |                 |
| 184                                                                                  | 5110               | 39000           | 8                       | 7.59    |                  |                             |       |                           |                 |
| 219                                                                                  | 5110               | 35900           | 8                       | 6.38    |                  |                             |       |                           |                 |
| 272                                                                                  | 4600               | 34500           | 8                       | 5.15    |                  |                             |       |                           |                 |

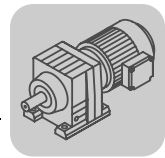
  

| R137R77, $n_e = 1400$ 1/min                                                                                                                                                 |                    |                 |                         |       | 8000 Nm      |      |      |       |       |                  |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| $n_a$<br>[1/min]                                                                                                                                                            | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
|  3  3 |                    |                 |                         |       |              |      |      |       |       |                  |                   |
| 0.06                                                                                                                                                                        | 8000               | 53400           | -                       | 22203 |              |      |      |       |       |                  |                   |
| 0.07                                                                                                                                                                        | 8000               | 53400           | -                       | 18945 |              |      |      |       |       |                  |                   |
| 0.08                                                                                                                                                                        | 8000               | 53400           | -                       | 16566 |              |      |      |       |       |                  |                   |
| 0.09                                                                                                                                                                        | 8000               | 53400           | -                       | 14777 |              |      |      |       |       |                  |                   |
| 0.11                                                                                                                                                                        | 8000               | 53400           | -                       | 12921 |              |      |      |       |       |                  |                   |
| 0.12                                                                                                                                                                        | 8000               | 53400           | -                       | 11712 |              |      |      |       |       |                  |                   |
| 0.13                                                                                                                                                                        | 8000               | 53400           | -                       | 10573 |              |      |      |       |       |                  |                   |
| 0.16                                                                                                                                                                        | 8000               | 53400           | -                       | 8784  |              |      |      |       |       |                  |                   |
| 0.19                                                                                                                                                                        | 8000               | 53400           | -                       | 7479  |              |      |      |       |       |                  |                   |
| 0.21                                                                                                                                                                        | 8000               | 53400           | -                       | 6559  |              |      |      |       |       |                  |                   |
| 0.24                                                                                                                                                                        | 8000               | 53400           | -                       | 5834  |              |      |      |       |       |                  |                   |
| 0.27                                                                                                                                                                        | 8000               | 53400           | -                       | 5116  |              |      |      |       |       |                  |                   |
| 0.31                                                                                                                                                                        | 8000               | 53400           | -                       | 4464  |              |      |      |       |       |                  |                   |
| 0.36                                                                                                                                                                        | 8000               | 53400           | -                       | 3928  |              |      |      |       |       |                  |                   |
| 0.41                                                                                                                                                                        | 8000               | 53400           | -                       | 3454  |              |      |      |       |       |                  |                   |
| 0.47                                                                                                                                                                        | 8000               | 53400           | -                       | 2993  |              |      |      |       |       |                  |                   |
|  2  3 |                    |                 |                         |       |              |      |      |       |       |                  |                   |
| 0.30                                                                                                                                                                        | 8000               | 53400           | -                       | 4709  |              |      |      |       |       |                  |                   |



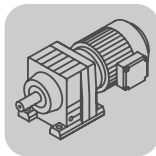
| <b>R137R77, <math>n_e = 1400</math> 1/min</b> |                    |                 |                         |      |              |      |      |       |       |                  | <b>8000 Nm</b>    |
|-----------------------------------------------|--------------------|-----------------|-------------------------|------|--------------|------|------|-------|-------|------------------|-------------------|
| $n_a$<br>[1/min]                              | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$  | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
| 0.35                                          | 8000               | 53400           | -                       | 4018 |              |      |      |       |       |                  |                   |
| 0.40                                          | 8000               | 53400           | -                       | 3514 |              |      |      |       |       |                  |                   |
| 0.42                                          | 8000               | 53400           | -                       | 3338 |              |      |      |       |       |                  |                   |
| 0.48                                          | 8000               | 53400           | -                       | 2929 |              |      |      |       |       |                  |                   |
| 0.56                                          | 8000               | 53400           | -                       | 2484 |              |      |      |       |       |                  |                   |
| 0.62                                          | 8000               | 53400           | -                       | 2242 |              |      |      |       |       |                  |                   |
| 0.75                                          | 8000               | 53400           | -                       | 1863 |              |      |      |       |       |                  |                   |
| 0.88                                          | 8000               | 53400           | -                       | 1586 |              |      |      |       |       |                  |                   |
| 1.0                                           | 8000               | 53400           | -                       | 1391 |              |      |      |       |       |                  |                   |
| 1.1                                           | 8000               | 53400           | -                       | 1256 |              |      |      |       |       |                  |                   |
| 1.3                                           | 8000               | 53400           | -                       | 1105 |              |      |      |       |       |                  |                   |
| 1.3                                           | 8000               | 53400           | -                       | 1043 |              |      |      |       |       |                  |                   |
| 1.6                                           | 8000               | 53400           | -                       | 888  |              |      |      |       |       |                  |                   |
| 2.0                                           | 8000               | 53400           | -                       | 699  |              |      |      |       |       |                  |                   |
| 2.3                                           | 8000               | 53400           | -                       | 609  |              |      |      |       |       |                  |                   |
| 3  2                                          |                    |                 |                         |      |              |      |      |       |       |                  |                   |
| 0.53                                          | 8000               | 53400           | -                       | 2658 |              |      |      |       |       |                  |                   |
| 0.58                                          | 8000               | 53400           | -                       | 2412 |              |      |      |       |       |                  |                   |
| 0.68                                          | 8000               | 53400           | -                       | 2073 |              |      |      |       |       |                  |                   |
| 0.76                                          | 8000               | 53400           | -                       | 1839 |              |      |      |       |       |                  |                   |
| 0.88                                          | 8000               | 53400           | -                       | 1598 |              |      |      |       |       |                  |                   |
| 1.0                                           | 8000               | 53400           | -                       | 1397 |              |      |      |       |       |                  |                   |
| 1.1                                           | 8000               | 53400           | -                       | 1226 |              |      |      |       |       |                  |                   |
| 1.3                                           | 8000               | 53400           | -                       | 1090 |              |      |      |       |       |                  |                   |
| 1.5                                           | 8000               | 53400           | -                       | 951  |              |      |      |       |       |                  |                   |
| 1.7                                           | 8000               | 53400           | -                       | 831  |              |      |      |       |       |                  |                   |
| 1.9                                           | 8000               | 53400           | -                       | 730  |              |      |      |       |       |                  |                   |
| 2.2                                           | 8000               | 53400           | -                       | 629  |              |      |      |       |       |                  |                   |
| 2.5                                           | 8000               | 53400           | -                       | 560  |              |      |      |       |       |                  |                   |
| 2.9                                           | 8000               | 53400           | -                       | 490  |              |      |      |       |       |                  |                   |
| 3.3                                           | 8000               | 53400           | -                       | 428  |              |      |      |       |       |                  |                   |
| 3.7                                           | 8000               | 53400           | -                       | 381  |              |      |      |       |       |                  |                   |
| 4.3                                           | 8000               | 53400           | -                       | 323  |              |      |      |       |       |                  |                   |
| 4.8                                           | 8000               | 53400           | -                       | 291  |              |      |      |       |       |                  |                   |
| 5.5                                           | 8000               | 53400           | -                       | 255  |              |      |      |       |       |                  |                   |
| 6.3                                           | 8000               | 53400           | -                       | 223  |              |      |      |       |       |                  |                   |
| 7.1                                           | 8000               | 53400           | -                       | 197  |              |      |      |       |       |                  |                   |
| 8.0                                           | 8000               | 53400           | -                       | 175  |              |      |      |       |       |                  |                   |
| 2  2                                          |                    |                 |                         |      |              |      |      |       |       |                  |                   |
| 2.5                                           | 8000               | 53400           | -                       | 564  |              |      |      |       |       |                  |                   |
| 2.7                                           | 8000               | 53400           | -                       | 517  |              |      |      |       |       |                  |                   |
| 3.1                                           | 8000               | 53400           | -                       | 453  |              |      |      |       |       |                  |                   |
| 3.7                                           | 8000               | 53400           | -                       | 376  |              |      |      |       |       |                  |                   |
| 4.1                                           | 8000               | 53400           | -                       | 339  |              |      |      |       |       |                  |                   |
| 4.7                                           | 8000               | 53400           | -                       | 297  |              |      |      |       |       |                  |                   |

| R147, n <sub>e</sub> = 1400 1/min                                                     |                           |                        |                  |        |                             |       |                           |                 | 13000 Nm       |
|---------------------------------------------------------------------------------------|---------------------------|------------------------|------------------|--------|-----------------------------|-------|---------------------------|-----------------|----------------|
| n <sub>a</sub><br>[1/min]                                                             | M <sub>amax</sub><br>[Nm] | F <sub>Ra</sub><br>[N] | φ (f/R)<br>[ ' ] | i      | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M | DV250M<br>DV280 | D315M<br>D315S |
|  3 |                           |                        |                  |        |                             |       |                           |                 |                |
| 8.6                                                                                   | 13000                     | 62700                  | 5                | 163.31 |                             |       |                           |                 |                |
| 9.5                                                                                   | 13000                     | 62700                  | 5                | 146.91 |                             |       |                           |                 |                |
| 12                                                                                    | 13000                     | 62700                  | 5                | 119.86 |                             |       |                           |                 |                |
| 13                                                                                    | 13000                     | 62700                  | 5                | 109.31 |                             |       |                           |                 |                |
| 15                                                                                    | 13000                     | 62700                  | 6                | 94.60* |                             |       |                           |                 |                |
| 17                                                                                    | 13000                     | 62700                  | 6                | 83.47  |                             |       |                           |                 |                |



| R147, $n_e = 1400$ 1/min                                                            |                    |                 |                         |       | 13000 Nm                    |       |                           |                 |                |
|-------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|-------|-----------------------------|-------|---------------------------|-----------------|----------------|
| $n_a$<br>[1/min]                                                                    | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M | DV250M<br>DV280 | D315M<br>D315S |
| 19                                                                                  | 13000              | 62700           | 6                       | 72.09 |                             |       |                           |                 |                |
| 21                                                                                  | 13000              | 62700           | 6                       | 66.99 |                             |       |                           |                 |                |
| 23                                                                                  | 13000              | 62700           | 6                       | 61.09 |                             |       |                           |                 |                |
| 26                                                                                  | 13000              | 62700           | 6                       | 52.87 |                             |       |                           |                 |                |
| 30                                                                                  | 13000              | 62700           | 6                       | 46.65 |                             |       |                           |                 |                |
| 35                                                                                  | 13000              | 62700           | 6                       | 40.29 |                             |       |                           |                 |                |
| 39                                                                                  | 13000              | 62700           | 6                       | 35.64 |                             |       |                           |                 |                |
| 47                                                                                  | 13000              | 62700           | 6                       | 29.95 |                             |       |                           |                 |                |
| 58                                                                                  | 11900              | 64700           | 6                       | 24.19 |                             |       |                           |                 |                |
|  2 |                    |                 |                         |       |                             |       |                           |                 |                |
| 68                                                                                  | 12000              | 64600           | 5                       | 20.44 |                             |       |                           |                 |                |
| 78                                                                                  | 10500              | 67000           | 5                       | 18.04 |                             |       |                           |                 |                |
| 90                                                                                  | 13000              | 62700           | 5                       | 15.64 |                             |       |                           |                 |                |
| 101                                                                                 | 12600              | 63400           | 5                       | 13.91 |                             |       |                           |                 |                |
| 117                                                                                 | 13000              | 60400           | 5                       | 11.99 |                             |       |                           |                 |                |
| 144                                                                                 | 13000              | 54400           | 6                       | 9.74  |                             |       |                           |                 |                |
| 169                                                                                 | 13000              | 49900           | 6                       | 8.26  |                             |       |                           |                 |                |
| 193                                                                                 | 8670               | 58400           | 8                       | 7.25  |                             |       |                           |                 |                |
| 238                                                                                 | 8670               | 53200           | 8                       | 5.89  |                             |       |                           |                 |                |
| 280                                                                                 | 8670               | 49300           | 8                       | 5.00  |                             |       |                           |                 |                |

| R147R77, $n_e = 1400$ 1/min                                                                                                                                                 |                    |                 |                         |       | 13000 Nm     |      |      |       |       |                  |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| $n_a$<br>[1/min]                                                                                                                                                            | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$   | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
|  3  3 |                    |                 |                         |       |              |      |      |       |       |                  |                   |
| 0.06                                                                                                                                                                        | 13000              | 62700           | -                       | 23401 |              |      |      |       |       |                  |                   |
| 0.07                                                                                                                                                                        | 13000              | 62700           | -                       | 21342 |              |      |      |       |       |                  |                   |
| 0.08                                                                                                                                                                        | 13000              | 62700           | -                       | 18210 |              |      |      |       |       |                  |                   |
| 0.09                                                                                                                                                                        | 13000              | 62700           | -                       | 15923 |              |      |      |       |       |                  |                   |
| 0.10                                                                                                                                                                        | 13000              | 62700           | -                       | 14075 |              |      |      |       |       |                  |                   |
| 0.11                                                                                                                                                                        | 13000              | 62700           | -                       | 12344 |              |      |      |       |       |                  |                   |
| 0.13                                                                                                                                                                        | 13000              | 62700           | -                       | 11143 |              |      |      |       |       |                  |                   |
| 0.14                                                                                                                                                                        | 13000              | 62700           | -                       | 9743  |              |      |      |       |       |                  |                   |
| 0.17                                                                                                                                                                        | 13000              | 62700           | -                       | 8443  |              |      |      |       |       |                  |                   |
| 0.19                                                                                                                                                                        | 13000              | 62700           | -                       | 7307  |              |      |      |       |       |                  |                   |
| 0.22                                                                                                                                                                        | 13000              | 62700           | -                       | 6447  |              |      |      |       |       |                  |                   |
| 0.25                                                                                                                                                                        | 13000              | 62700           | -                       | 5568  |              |      |      |       |       |                  |                   |
| 0.28                                                                                                                                                                        | 13000              | 62700           | -                       | 4926  |              |      |      |       |       |                  |                   |
| 0.32                                                                                                                                                                        | 13000              | 62700           | -                       | 4325  |              |      |      |       |       |                  |                   |
| 0.37                                                                                                                                                                        | 13000              | 62700           | -                       | 3754  |              |      |      |       |       |                  |                   |
| 0.42                                                                                                                                                                        | 13000              | 62700           | -                       | 3302  |              |      |      |       |       |                  |                   |
| 0.48                                                                                                                                                                        | 13000              | 62700           | -                       | 2898  |              |      |      |       |       |                  |                   |
|  3  2 |                    |                 |                         |       |              |      |      |       |       |                  |                   |
| 0.55                                                                                                                                                                        | 13000              | 62700           | -                       | 2555  |              |      |      |       |       |                  |                   |
| 0.63                                                                                                                                                                        | 13000              | 62700           | -                       | 2211  |              |      |      |       |       |                  |                   |
| 0.72                                                                                                                                                                        | 13000              | 62700           | -                       | 1951  |              |      |      |       |       |                  |                   |
| 0.82                                                                                                                                                                        | 13000              | 62700           | -                       | 1705  |              |      |      |       |       |                  |                   |
| 0.91                                                                                                                                                                        | 13000              | 62700           | -                       | 1536  |              |      |      |       |       |                  |                   |
| 1.1                                                                                                                                                                         | 13000              | 62700           | -                       | 1329  |              |      |      |       |       |                  |                   |
| 1.2                                                                                                                                                                         | 13000              | 62700           | -                       | 1166  |              |      |      |       |       |                  |                   |
| 1.4                                                                                                                                                                         | 13000              | 62700           | -                       | 1029  |              |      |      |       |       |                  |                   |
| 1.6                                                                                                                                                                         | 13000              | 62700           | -                       | 889   |              |      |      |       |       |                  |                   |
| 1.8                                                                                                                                                                         | 13000              | 62700           | -                       | 784   |              |      |      |       |       |                  |                   |
| 2.0                                                                                                                                                                         | 13000              | 62700           | -                       | 695   |              |      |      |       |       |                  |                   |
| 2.3                                                                                                                                                                         | 13000              | 62700           | -                       | 619   |              |      |      |       |       |                  |                   |
| 2.5                                                                                                                                                                         | 13000              | 62700           | -                       | 558   |              |      |      |       |       |                  |                   |

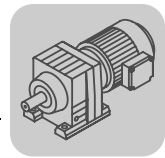


# R..DR/DT/DV R.. → DR/DT/DV

| R147R77, $n_e = 1400$ 1/min |                    |                 |                         |     | 13000 Nm     |      |      |       |       |                  |                   |
|-----------------------------|--------------------|-----------------|-------------------------|-----|--------------|------|------|-------|-------|------------------|-------------------|
| $n_a$<br>[1/min]            | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DR63<br>DT71 | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M |
| 2.9                         | 13000              | 62700           | -                       | 489 |              |      |      |       |       |                  |                   |
| 3.4                         | 13000              | 62700           | -                       | 415 |              |      |      |       |       |                  |                   |

| R147R87, $n_e = 1400$ 1/min |                    |                 |                         |     | 13000 Nm |       |       |                  |                             |       |
|-----------------------------|--------------------|-----------------|-------------------------|-----|----------|-------|-------|------------------|-----------------------------|-------|
| $n_a$<br>[1/min]            | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DT90     | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 |
| 3  2                        |                    |                 |                         |     |          |       |       |                  |                             |       |
| 2.6                         | 13000              | 62700           | -                       | 533 |          |       |       |                  |                             |       |
| 3.0                         | 13000              | 62700           | -                       | 462 |          |       |       |                  |                             |       |
| 3.3                         | 13000              | 62700           | -                       | 426 |          |       |       |                  |                             |       |
| 3.8                         | 13000              | 62700           | -                       | 368 |          |       |       |                  |                             |       |
| 4.3                         | 13000              | 62700           | -                       | 326 |          |       |       |                  |                             |       |
| 5.0                         | 13000              | 62700           | -                       | 280 |          |       |       |                  |                             |       |
| 5.7                         | 13000              | 62700           | -                       | 247 |          |       |       |                  |                             |       |
| 6.5                         | 13000              | 62700           | -                       | 214 |          |       |       |                  |                             |       |
| 7.4                         | 13000              | 62700           | -                       | 189 |          |       |       |                  |                             |       |
| 8.8                         | 13000              | 62700           | -                       | 159 |          |       |       |                  |                             |       |

| R167, $n_e = 1400$ 1/min |                    |                 |                         |         | 18000 Nm                    |       |                           |                 |                |                    |
|--------------------------|--------------------|-----------------|-------------------------|---------|-----------------------------|-------|---------------------------|-----------------|----------------|--------------------|
| $n_a$<br>[1/min]         | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$     | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M | DV250M<br>DV280 | D315M<br>D315S | D315M_A<br>D315M_B |
| 3                        |                    |                 |                         |         |                             |       |                           |                 |                |                    |
| 6.1                      | 18000              | 120000          | 5                       | 229.71  |                             |       |                           |                 |                |                    |
| 7.5                      | 18000              | 120000          | 5                       | 186.93* |                             |       |                           |                 |                |                    |
| 9.1                      | 18000              | 120000          | 5                       | 153.07  |                             |       |                           |                 |                |                    |
| 10                       | 18000              | 120000          | 5                       | 139.98  |                             |       |                           |                 |                |                    |
| 11                       | 18000              | 120000          | 5                       | 121.81* |                             |       |                           |                 |                |                    |
| 13                       | 18000              | 120000          | 5                       | 107.49  |                             |       |                           |                 |                |                    |
| 15                       | 18000              | 120000          | 5                       | 93.19   |                             |       |                           |                 |                |                    |
| 17                       | 18000              | 120000          | 5                       | 82.91*  |                             |       |                           |                 |                |                    |
| 19                       | 18000              | 120000          | 6                       | 73.70*  |                             |       |                           |                 |                |                    |
| 21                       | 18000              | 120000          | 6                       | 67.40   |                             |       |                           |                 |                |                    |
| 24                       | 18000              | 120000          | 6                       | 58.65   |                             |       |                           |                 |                |                    |
| 27                       | 18000              | 120000          | 6                       | 51.76   |                             |       |                           |                 |                |                    |
| 31                       | 18000              | 120000          | 6                       | 44.87   |                             |       |                           |                 |                |                    |
| 35                       | 18000              | 120000          | 6                       | 39.92   |                             |       |                           |                 |                |                    |
| 41                       | 18000              | 120000          | 6                       | 34.41   |                             |       |                           |                 |                |                    |
| 50                       | 18000              | 120000          | 6                       | 27.96   |                             |       |                           |                 |                |                    |
| 59                       | 18000              | 116500          | 6                       | 23.71   |                             |       |                           |                 |                |                    |
| 2                        |                    |                 |                         |         |                             |       |                           |                 |                |                    |
| 30                       | 7000               | 120000          | 5                       | 46.00   |                             |       |                           |                 |                |                    |
| 37                       | 9000               | 120000          | 5                       | 37.74   |                             |       |                           |                 |                |                    |
| 46                       | 10000              | 120000          | 5                       | 30.71   |                             |       |                           |                 |                |                    |
| 57                       | 14000              | 120000          | 5                       | 24.57   |                             |       |                           |                 |                |                    |
| 64                       | 13000              | 120000          | 5                       | 21.85   |                             |       |                           |                 |                |                    |
| 74                       | 16000              | 111400          | 5                       | 19.03   |                             |       |                           |                 |                |                    |
| 82                       | 15000              | 108900          | 5                       | 16.98   |                             |       |                           |                 |                |                    |
| 97                       | 18000              | 93800           | 5                       | 14.48   |                             |       |                           |                 |                |                    |
| 117                      | 17000              | 88700           | 5                       | 11.99   |                             |       |                           |                 |                |                    |
| 137                      | 17000              | 82500           | 5                       | 10.24   |                             |       |                           |                 |                |                    |

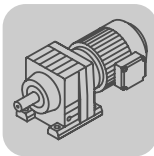


**R167R97,  $n_e = 1400$  1/min 18000 Nm**

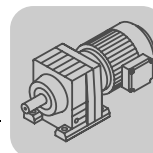
| $n_a$<br>[1/min]                                                                                                                                                      | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | i     | DT80 | DT90 | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 | DV200 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|-------|------|------|-------|-------|------------------|-----------------------------|-------|-------|
|  3  |                    |                 |                         |       |      |      |       |       |                  |                             |       |       |
| 0.05                                                                                                                                                                  | 18000              | 120000          | -                       | 27001 |      |      |       |       |                  |                             |       |       |
| 0.06                                                                                                                                                                  | 18000              | 120000          | -                       | 22482 |      |      |       |       |                  |                             |       |       |
| 0.07                                                                                                                                                                  | 18000              | 120000          | -                       | 20002 |      |      |       |       |                  |                             |       |       |
| 0.08                                                                                                                                                                  | 18000              | 120000          | -                       | 17361 |      |      |       |       |                  |                             |       |       |
| 0.09                                                                                                                                                                  | 18000              | 120000          | -                       | 15446 |      |      |       |       |                  |                             |       |       |
| 0.10                                                                                                                                                                  | 18000              | 120000          | -                       | 14051 |      |      |       |       |                  |                             |       |       |
| 0.12                                                                                                                                                                  | 18000              | 120000          | -                       | 11812 |      |      |       |       |                  |                             |       |       |
| 0.13                                                                                                                                                                  | 18000              | 120000          | -                       | 10509 |      |      |       |       |                  |                             |       |       |
| 0.15                                                                                                                                                                  | 18000              | 120000          | -                       | 9631  |      |      |       |       |                  |                             |       |       |
| 0.18                                                                                                                                                                  | 18000              | 120000          | -                       | 7749  |      |      |       |       |                  |                             |       |       |
| 0.20                                                                                                                                                                  | 18000              | 120000          | -                       | 6894  |      |      |       |       |                  |                             |       |       |
| 0.23                                                                                                                                                                  | 18000              | 120000          | -                       | 6077  |      |      |       |       |                  |                             |       |       |
| 0.26                                                                                                                                                                  | 18000              | 120000          | -                       | 5407  |      |      |       |       |                  |                             |       |       |
| 0.30                                                                                                                                                                  | 18000              | 120000          | -                       | 4650  |      |      |       |       |                  |                             |       |       |
| 0.34                                                                                                                                                                  | 18000              | 120000          | -                       | 4129  |      |      |       |       |                  |                             |       |       |
| 0.38                                                                                                                                                                  | 18000              | 120000          | -                       | 3692  |      |      |       |       |                  |                             |       |       |
| 0.45                                                                                                                                                                  | 18000              | 120000          | -                       | 3099  |      |      |       |       |                  |                             |       |       |
|  3  |                    |                 |                         |       |      |      |       |       |                  |                             |       |       |
| 0.53                                                                                                                                                                  | 18000              | 120000          | -                       | 2657  |      |      |       |       |                  |                             |       |       |
| 0.60                                                                                                                                                                  | 18000              | 120000          | -                       | 2333  |      |      |       |       |                  |                             |       |       |
| 0.67                                                                                                                                                                  | 18000              | 120000          | -                       | 2085  |      |      |       |       |                  |                             |       |       |
| 0.75                                                                                                                                                                  | 18000              | 120000          | -                       | 1877  |      |      |       |       |                  |                             |       |       |
| 0.84                                                                                                                                                                  | 18000              | 120000          | -                       | 1670  |      |      |       |       |                  |                             |       |       |
| 0.97                                                                                                                                                                  | 18000              | 120000          | -                       | 1438  |      |      |       |       |                  |                             |       |       |
| 1.1                                                                                                                                                                   | 18000              | 120000          | -                       | 1279  |      |      |       |       |                  |                             |       |       |
| 1.2                                                                                                                                                                   | 18000              | 120000          | -                       | 1123  |      |      |       |       |                  |                             |       |       |
| 1.4                                                                                                                                                                   | 18000              | 120000          | -                       | 999   |      |      |       |       |                  |                             |       |       |
| 1.6                                                                                                                                                                   | 18000              | 120000          | -                       | 861   |      |      |       |       |                  |                             |       |       |
| 1.8                                                                                                                                                                   | 18000              | 120000          | -                       | 760   |      |      |       |       |                  |                             |       |       |
| 2.1                                                                                                                                                                   | 18000              | 120000          | -                       | 656   |      |      |       |       |                  |                             |       |       |
| 2.4                                                                                                                                                                   | 18000              | 120000          | -                       | 579   |      |      |       |       |                  |                             |       |       |
| 2.8                                                                                                                                                                   | 18000              | 120000          | -                       | 503   |      |      |       |       |                  |                             |       |       |
| 3.2                                                                                                                                                                   | 18000              | 120000          | -                       | 432   |      |      |       |       |                  |                             |       |       |
| 3.7                                                                                                                                                                   | 18000              | 120000          | -                       | 376   |      |      |       |       |                  |                             |       |       |
| 4.2                                                                                                                                                                   | 18000              | 120000          | -                       | 335   |      |      |       |       |                  |                             |       |       |
| 4.6                                                                                                                                                                   | 18000              | 120000          | -                       | 303   |      |      |       |       |                  |                             |       |       |
| 5.0                                                                                                                                                                   | 18000              | 120000          | -                       | 279   |      |      |       |       |                  |                             |       |       |

**R167R107,  $n_e = 1400$  1/min 18000 Nm**

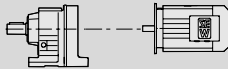
| $n_a$<br>[1/min]                                                                                                                                                          | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | i    | DV100 | DV112 | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------|------|-------|-------|------------------|-----------------------------|-------|---------------------------|
|  2  |                    |                 |                         |      |       |       |                  |                             |       |                           |
| 0.38                                                                                                                                                                      | 18000              | 120000          | -                       | 3637 |       |       |                  |                             |       |                           |
| 0.42                                                                                                                                                                      | 18000              | 120000          | -                       | 3330 |       |       |                  |                             |       |                           |
| 0.51                                                                                                                                                                      | 18000              | 120000          | -                       | 2757 |       |       |                  |                             |       |                           |
| 0.57                                                                                                                                                                      | 18000              | 120000          | -                       | 2436 |       |       |                  |                             |       |                           |
| 0.61                                                                                                                                                                      | 18000              | 120000          | -                       | 2298 |       |       |                  |                             |       |                           |
| 0.68                                                                                                                                                                      | 18000              | 120000          | -                       | 2066 |       |       |                  |                             |       |                           |
| 0.76                                                                                                                                                                      | 18000              | 120000          | -                       | 1849 |       |       |                  |                             |       |                           |
| 0.84                                                                                                                                                                      | 18000              | 120000          | -                       | 1674 |       |       |                  |                             |       |                           |
| 0.94                                                                                                                                                                      | 18000              | 120000          | -                       | 1485 |       |       |                  |                             |       |                           |
| 1.0                                                                                                                                                                       | 18000              | 120000          | -                       | 1342 |       |       |                  |                             |       |                           |
| 1.1                                                                                                                                                                       | 18000              | 120000          | -                       | 1229 |       |       |                  |                             |       |                           |
| 1.3                                                                                                                                                                       | 18000              | 120000          | -                       | 1111 |       |       |                  |                             |       |                           |

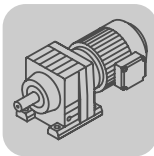


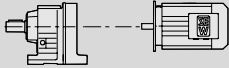
| <b>R167R107, <math>n_e = 1400</math> 1/min</b> |                    |                 |                         |     |       | <b>18000 Nm</b> |                  |                             |       |                           |
|------------------------------------------------|--------------------|-----------------|-------------------------|-----|-------|-----------------|------------------|-----------------------------|-------|---------------------------|
| $n_a$<br>[1/min]                               | $M_{amax}$<br>[Nm] | $F_{Ra}$<br>[N] | $\varphi$ (/R)<br>[ ' ] | $i$ | DV100 | DV112           | DV132S<br>DV132M | DV132ML<br>DV160M<br>DV160L | DV180 | DV200<br>DV225S<br>DV225M |
| 1.5                                            | 18000              | 120000          | -                       | 950 |       |                 |                  |                             |       |                           |
| 1.6                                            | 18000              | 120000          | -                       | 860 |       |                 |                  |                             |       |                           |
| 1.8                                            | 18000              | 120000          | -                       | 763 |       |                 |                  |                             |       |                           |
| 2.0                                            | 18000              | 120000          | -                       | 690 |       |                 |                  |                             |       |                           |
| 2.4                                            | 18000              | 120000          | -                       | 585 |       |                 |                  |                             |       |                           |
| 2.7                                            | 18000              | 120000          | -                       | 511 |       |                 |                  |                             |       |                           |
| 3  2                                           |                    |                 |                         |     |       |                 |                  |                             |       |                           |
| 4.0                                            | 18000              | 120000          | -                       | 349 |       |                 |                  |                             |       |                           |
| 4.7                                            | 18000              | 120000          | -                       | 295 |       |                 |                  |                             |       |                           |
| 5.2                                            | 18000              | 120000          | -                       | 270 |       |                 |                  |                             |       |                           |
| 6.1                                            | 18000              | 120000          | -                       | 229 |       |                 |                  |                             |       |                           |
| 7.0                                            | 18000              | 120000          | -                       | 200 |       |                 |                  |                             |       |                           |
| 8.3                                            | 18000              | 120000          | -                       | 169 |       |                 |                  |                             |       |                           |
| 2  2                                           |                    |                 |                         |     |       |                 |                  |                             |       |                           |
| 3.1                                            | 18000              | 120000          | -                       | 446 |       |                 |                  |                             |       |                           |
| 3.5                                            | 18000              | 120000          | -                       | 399 |       |                 |                  |                             |       |                           |
| 3.9                                            | 18000              | 120000          | -                       | 361 |       |                 |                  |                             |       |                           |
| 4.3                                            | 18000              | 120000          | -                       | 328 |       |                 |                  |                             |       |                           |
| 4.8                                            | 18000              | 120000          | -                       | 291 |       |                 |                  |                             |       |                           |
| 5.3                                            | 18000              | 120000          | -                       | 264 |       |                 |                  |                             |       |                           |
| 6.2                                            | 18000              | 120000          | -                       | 227 |       |                 |                  |                             |       |                           |
| 7.1                                            | 18000              | 120000          | -                       | 198 |       |                 |                  |                             |       |                           |
| 8.3                                            | 18000              | 120000          | -                       | 168 |       |                 |                  |                             |       |                           |

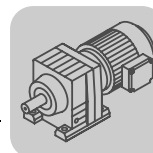


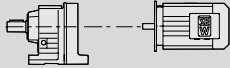
### 3.3 R..D.. [kW]

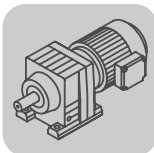
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |              | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|--------------|------------|-------------------------------------------------------------------------------------|
| 0.09                   | 17                        | 52                     | 78.24 | 1490                                 | 0.95               | R<br>RF                                                                            | 07<br>07           | DT<br>DT | 56M4<br>56M4 | 5.9<br>5.9 | 130<br>131                                                                          |
|                        | 18                        | 47                     | 71.47 | 1520                                 | 1.05               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 22                        | 40                     | 60.32 | 1570                                 | 1.25               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 25                        | 34                     | 51.52 | 1590                                 | 1.45               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 27                        | 32                     | 47.78 | 1600                                 | 1.60               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 29                        | 29                     | 44.16 | 1610                                 | 1.70               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 31                        | 27                     | 41.31 | 1600                                 | 1.85               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 32                        | 27                     | 40.34 | 1590                                 | 1.85               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 34                        | 26                     | 38.51 | 1570                                 | 1.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 38                        | 23                     | 34.05 | 1520                                 | 2.2                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 45                        | 19                     | 29.08 | 1460                                 | 2.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 48                        | 18                     | 26.97 | 1430                                 | 2.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 56                        | 15                     | 23.32 | 1370                                 | 3.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 60                        | 14                     | 21.73 | 1350                                 | 3.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 71                        | 12                     | 18.31 | 1280                                 | 4.1                | R<br>RF                                                                            | 07<br>07           | DT<br>DT | 56M4<br>56M4 | 5.7<br>5.7 | 130<br>131                                                                          |
|                        | 78                        | 11                     | 16.73 | 1250                                 | 4.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 92                        | 9.3                    | 14.12 | 1190                                 | 5.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 108                       | 8.0                    | 12.06 | 1140                                 | 6.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 116                       | 7.4                    | 11.18 | 1110                                 | 6.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 134                       | 6.4                    | 9.67  | 1060                                 | 7.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 144                       | 6.0                    | 9.01  | 1040                                 | 8.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 166                       | 5.2                    | 7.85  | 1000                                 | 9.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 174                       | 4.9                    | 7.48  | 980                                  | 8.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 190                       | 4.5                    | 6.83  | 960                                  | 9.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 226                       | 3.8                    | 5.76  | 910                                  | 11                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 264                       | 3.3                    | 4.92  | 860                                  | 11                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 285                       | 3.0                    | 4.57  | 840                                  | 12                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 329                       | 2.6                    | 3.95  | 810                                  | 13                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 353                       | 2.4                    | 3.68  | 790                                  | 14                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 405                       | 2.1                    | 3.21  | 755                                  | 15                 |                                                                                    |                    |          |              |            |                                                                                     |
| 0.12                   | 0.06                      | 13300                  | 21342 | 62000                                | 1.00               | R<br>RF                                                                            | 147 R77<br>147 R77 | DR<br>DR | 63S4<br>63S4 | 420<br>430 | 167<br>167                                                                          |
|                        | 0.08                      | 11400                  | 18210 | 65700                                | 1.15               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.09                      | 9930                   | 15923 | 67900                                | 1.30               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.10                      | 8780                   | 14075 | 69400                                | 1.50               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.11                      | 7650                   | 12344 | 70700                                | 1.70               | R<br>RF                                                                            | 147 R77<br>147 R77 | DR<br>DR | 63S4<br>63S4 | 420<br>430 | 167<br>167                                                                          |
|                        | 0.12                      | 6740                   | 11143 | 71600                                | 1.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.14                      | 6040                   | 9743  | 72200                                | 2.2                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.16                      | 4830                   | 8443  | 73100                                | 2.7                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.19                      | 4180                   | 7307  | 73400                                | 3.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.21                      | 3690                   | 6447  | 73700                                | 3.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.25                      | 3190                   | 5568  | 73900                                | 4.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.11                      | 8060                   | 12921 | 53300                                | 1.00               | R<br>RF                                                                            | 137 R77<br>137 R77 | DR<br>DR | 63S4<br>63S4 | 290<br>310 | 167<br>167                                                                          |
|                        | 0.12                      | 7260                   | 11712 | 54900                                | 1.10               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.13                      | 6390                   | 10573 | 56400                                | 1.25               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.16                      | 5030                   | 8784  | 58400                                | 1.60               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.18                      | 4090                   | 7479  | 59400                                | 1.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.21                      | 4060                   | 6559  | 59400                                | 1.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.24                      | 3190                   | 5834  | 60200                                | 2.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.27                      | 3170                   | 5116  | 60200                                | 2.5                | R<br>RF                                                                            | 107 R77<br>107 R77 | DR<br>DR | 63S4<br>63S4 | 200<br>210 | 167<br>167                                                                          |
|                        | 0.18                      | 4410                   | 7583  | 28800                                | 0.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.20                      | 3690                   | 6743  | 32400                                | 1.15               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.23                      | 3660                   | 5914  | 32500                                | 1.15               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.27                      | 2830                   | 5168  | 35500                                | 1.50               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.31                      | 2540                   | 4435  | 36100                                | 1.70               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.35                      | 2270                   | 3896  | 36500                                | 1.90               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.45                      | 1880                   | 3039  | 36900                                | 2.3                | R<br>RF                                                                            | 107 R77<br>107 R77 | DR<br>DR | 63S4<br>63S4 | 195<br>200 | 167<br>167                                                                          |
|                        | 0.35                      | 2470                   | 3918  | 36200                                | 1.75               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.41                      | 2110                   | 3343  | 36700                                | 2.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.45                      | 1910                   | 3034  | 36900                                | 2.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.52                      | 1670                   | 2653  | 37100                                | 2.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.61                      | 1440                   | 2280  | 37300                                | 3.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.67                      | 1300                   | 2067  | 37400                                | 3.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.30                      | 3050                   | 4559  | 17700                                | 1.00               | R<br>RF                                                                            | 97 R57<br>97 R57   | DR<br>DR | 63S4<br>63S4 | 130<br>145 | 167<br>167                                                                          |
|                        | 0.34                      | 2570                   | 4004  | 23700                                | 1.15               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.40                      | 2270                   | 3481  | 25200                                | 1.30               |                                                                                    |                    |          |              |            |                                                                                     |



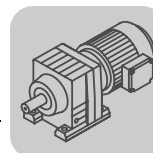
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$  | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                                |                        |                            | $m$<br>[kg] |  |
|---------------|------------------|---------------|------|----------------------|-----------|------------------------------------------------------------------------------------|--------------------------------|------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------|
| <b>0.12</b>   | <b>0.29</b>      | 3240          | 4678 | 4840                 | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>97 R57</b><br><b>97 R57</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 125         | 167                                                                                 |
|               | <b>0.32</b>      | 2980          | 4309 | 20400                | 1.00      |                                                                                    |                                |                        |                            | 145         | 167                                                                                 |
|               | <b>0.37</b>      | 2560          | 3702 | 23700                | 1.15      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.46</b>      | 2080          | 3019 | 26100                | 1.45      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.52</b>      | 1810          | 2668 | 27100                | 1.65      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.61</b>      | 1480          | 2245 | 27700                | 2.0       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.68</b>      | 1310          | 2016 | 27900                | 2.3       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.80</b>      | 1200          | 1733 | 28000                | 2.5       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.45</b>      | 2120          | 3065 | 25900                | 1.40      | <b>R</b><br><b>RF</b>                                                              | <b>97 R57</b><br><b>97 R57</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 130         | 167                                                                                 |
|               | <b>0.51</b>      | 1880          | 2722 | 26800                | 1.60      |                                                                                    |                                |                        |                            | 145         | 167                                                                                 |
|               | <b>0.60</b>      | 1590          | 2311 | 27500                | 1.90      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.66</b>      | 1430          | 2078 | 27700                | 2.1       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.76</b>      | 1240          | 1823 | 28000                | 2.4       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.87</b>      | 1070          | 1583 | 28200                | 2.8       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.99</b>      | 910           | 1396 | 28300                | 3.3       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.1</b>       | 775           | 1228 | 28400                | 3.9       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.48</b>      | 1770          | 2873 | 15200                | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 86          | 167                                                                                 |
|               | <b>0.70</b>      | 1300          | 1961 | 18500                | 1.20      |                                                                                    |                                |                        |                            | 93          | 167                                                                                 |
|               | <b>0.53</b>      | 1790          | 2595 | 15000                | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 85          | 167                                                                                 |
|               | <b>0.65</b>      | 1430          | 2129 | 17700                | 1.10      |                                                                                    |                                |                        |                            | 92          | 167                                                                                 |
|               | <b>0.72</b>      | 1270          | 1930 | 18600                | 1.20      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.80</b>      | 1120          | 1733 | 19300                | 1.40      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>0.79</b>      | 1150          | 1737 | 19200                | 1.35      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 85          | 167                                                                                 |
|               | <b>0.91</b>      | 1010          | 1524 | 19800                | 1.55      |                                                                                    |                                |                        |                            | 92          | 167                                                                                 |
|               | <b>1.1</b>       | 810           | 1303 | 20000                | 1.90      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.2</b>       | 710           | 1143 | 20000                | 2.2       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.6</b>       | 585           | 885  | 20000                | 2.7       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.8</b>       | 515           | 776  | 20000                | 3.0       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.0</b>       | 450           | 685  | 20000                | 3.4       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.3</b>       | 360           | 599  | 20000                | 4.3       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.1</b>       | 940           | 1303 | 8660                 | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>77 R37</b><br><b>77 R37</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 45          | 167                                                                                 |
|               | <b>1.2</b>       | 800           | 1124 | 10100                | 1.05      |                                                                                    |                                |                        |                            | 51          | 167                                                                                 |
|               | <b>1.3</b>       | 740           | 1047 | 10600                | 1.10      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.5</b>       | 640           | 915  | 11300                | 1.30      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.1</b>       | 820           | 1218 | 9910                 | 1.00      | <b>R</b><br><b>RF</b>                                                              | <b>77 R37</b><br><b>77 R37</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 46          | 167                                                                                 |
|               | <b>1.3</b>       | 740           | 1084 | 10600                | 1.10      |                                                                                    |                                |                        |                            | 52          | 167                                                                                 |
|               | <b>1.5</b>       | 665           | 940  | 11200                | 1.25      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 525           | 821  | 12000                | 1.55      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.9</b>       | 480           | 731  | 12200                | 1.70      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.1</b>       | 460           | 646  | 12300                | 1.80      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.6</b>       | 380           | 520  | 12600                | 2.2       | <b>R</b><br><b>RF</b>                                                              | <b>77 R37</b><br><b>77 R37</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 45          | 167                                                                                 |
|               | <b>3.1</b>       | 325           | 451  | 12700                | 2.5       |                                                                                    |                                |                        |                            | 51          | 167                                                                                 |
|               | <b>3.3</b>       | 300           | 422  | 12800                | 2.7       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>3.8</b>       | 255           | 365  | 12900                | 3.2       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.6</b>       | 630           | 891  | 7190                 | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>67 R37</b><br><b>67 R37</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 40          | 167                                                                                 |
|               | <b>1.9</b>       | 505           | 730  | 8530                 | 1.20      |                                                                                    |                                |                        |                            | 43          | 167                                                                                 |
|               | <b>2.1</b>       | 440           | 644  | 9060                 | 1.35      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.4</b>       | 385           | 571  | 9430                 | 1.55      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.8</b>       | 320           | 486  | 9790                 | 1.85      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 590           | 836  | 7670                 | 1.00      | <b>R</b><br><b>RF</b>                                                              | <b>67 R37</b><br><b>67 R37</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 41          | 167                                                                                 |
|               | <b>1.8</b>       | 495           | 750  | 8630                 | 1.20      |                                                                                    |                                |                        |                            | 44          | 167                                                                                 |
|               | <b>2.1</b>       | 440           | 646  | 9050                 | 1.35      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.4</b>       | 400           | 574  | 9330                 | 1.50      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.8</b>       | 345           | 495  | 9660                 | 1.75      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>3.1</b>       | 285           | 438  | 9940                 | 2.1       |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>1.8</b>       | 550           | 782  | 4650                 | 0.80      | <b>R</b><br><b>RF</b>                                                              | <b>57 R37</b><br><b>57 R37</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 34          | 167                                                                                 |
|               | <b>2.0</b>       | 455           | 678  | 7070                 | 1.00      |                                                                                    |                                |                        |                            | 38          | 167                                                                                 |
|               | <b>2.3</b>       | 415           | 604  | 7260                 | 1.10      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.6</b>       | 375           | 537  | 7400                 | 1.20      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>2.9</b>       | 330           | 471  | 7550                 | 1.35      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>3.9</b>       | 245           | 357  | 7770                 | 1.85      |                                                                                    |                                |                        |                            |             |                                                                                     |
|               | <b>4.3</b>       | 215           | 319  | 7830                 | 2.1       |                                                                                    |                                |                        |                            |             |                                                                                     |



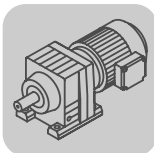
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                  |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|------------------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.12                   | 3.8                       | 260                    | 359     | 7730                                 | 1.75               | R<br>RF                                                                            | 57 R37<br>57 R37 | DR<br>DR | 63S4<br>63S4 | 33        | 167                                                                                 |
|                        | 4.3                       | 235                    | 324     | 7790                                 | 1.95               |                                                                                    |                  |          |              | 37        | 167                                                                                 |
|                        | 4.8                       | 205                    | 290     | 7840                                 | 2.2                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.3                       | 185                    | 262     | 7880                                 | 2.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.6                       | 171                    | 246     | 7900                                 | 2.6                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.3                       | 150                    | 220     | 7930                                 | 3.0                | R<br>RF                                                                            | 47 R37<br>47 R37 | DR<br>DR | 63S4<br>63S4 | 28        | 167                                                                                 |
|                        | 2.7                       | 345                    | 510     | 4360                                 | 0.85               |                                                                                    |                  |          |              | 28        | 167                                                                                 |
|                        | 3.2                       | 285                    | 436     | 5490                                 | 1.05               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 3.4                       | 265                    | 408     | 5590                                 | 1.10               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.0                       | 220                    | 344     | 5790                                 | 1.35               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 2.8                       | 365                    | 502     | 3020                                 | 0.80               | R<br>RF                                                                            | 47 R37<br>47 R37 | DR<br>DR | 63S4<br>63S4 | 28        | 167                                                                                 |
|                        | 3.2                       | 315                    | 429     | 5350                                 | 0.95               |                                                                                    |                  |          |              | 28        | 167                                                                                 |
|                        | 3.7                       | 270                    | 372     | 5580                                 | 1.10               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.0                       | 250                    | 348     | 5670                                 | 1.20               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.6                       | 210                    | 301     | 5810                                 | 1.40               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.4                       | 177                    | 255     | 5930                                 | 1.70               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63S4<br>63S4 | 17        | 167                                                                                 |
|                        | 6.0                       | 156                    | 228     | 5980                                 | 1.95               |                                                                                    |                  |          |              | 19        | 167                                                                                 |
|                        | 7.1                       | 130                    | 195     | 6040                                 | 2.3                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.1                       | 225                    | 338     | 4570                                 | 0.90               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.7                       | 210                    | 296     | 4790                                 | 0.95               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.3                       | 184                    | 259     | 5130                                 | 1.10               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63S4<br>63S4 | 17        | 167                                                                                 |
|                        | 6.0                       | 163                    | 228     | 5360                                 | 1.25               |                                                                                    |                  |          |              | 19        | 167                                                                                 |
|                        | 6.9                       | 140                    | 199     | 5550                                 | 1.40               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.0                       | 123                    | 172     | 5680                                 | 1.65               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.2                       | 240                    | 328     | 3730                                 | 0.85               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63S4<br>63S4 | 17        | 167                                                                                 |
|                        | 4.8                       | 205                    | 289     | 4880                                 | 1.00               |                                                                                    |                  |          |              | 18        | 167                                                                                 |
|                        | 5.2                       | 192                    | 265     | 5040                                 | 1.05               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.1                       | 156                    | 226     | 5410                                 | 1.30               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.8                       | 144                    | 202     | 5530                                 | 1.40               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.7                       | 125                    | 179     | 5660                                 | 1.60               | R<br>RF                                                                            | 27 R17<br>27 R17 | DR<br>DR | 63S4<br>63S4 | 11        | 167                                                                                 |
|                        | 6.0                       | 158                    | 229     | 4090                                 | 0.80               |                                                                                    |                  |          |              | 11        | 167                                                                                 |
|                        | 6.9                       | 138                    | 200     | 4200                                 | 0.95               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.8                       | 121                    | 177     | 4270                                 | 1.05               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.3                       | 116                    | 166     | 4290                                 | 1.10               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.1                       | 157                    | 227     | 4100                                 | 0.85               | R<br>RF                                                                            | 27 R17<br>27 R17 | DR<br>DR | 63S4<br>63S4 | 11        | 167                                                                                 |
|                        | 6.8                       | 144                    | 203     | 4170                                 | 0.90               |                                                                                    |                  |          |              | 11        | 167                                                                                 |
|                        | 7.7                       | 125                    | 179     | 4260                                 | 1.05               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.8                       | 106                    | 156     | 4330                                 | 1.25               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.6                       | 250                    | 195.24* | 12900                                | 3.3                | R<br>RF                                                                            | 77<br>77         | DR<br>DR | 63M6<br>63M6 | 37        | 151                                                                                 |
|                        | 5.4                       | 210                    | 166.59  | 13000                                | 3.9                |                                                                                    |                  |          |              | 43        | 152                                                                                 |
|                        | 6.2                       | 186                    | 145.67  | 13000                                | 4.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.5                       | 255                    | 199.81  | 10100                                | 2.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.9                       | 235                    | 184.07  | 10100                                | 2.6                | R<br>RF                                                                            | 67<br>67         | DR<br>DR | 63M6<br>63M6 | 30        | 148                                                                                 |
|                        | 5.7                       | 200                    | 158.14  | 10300                                | 3.0                |                                                                                    |                  |          |              | 33        | 149                                                                                 |
|                        | 6.5                       | 175                    | 137.67  | 10300                                | 3.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.0                       | 164                    | 128.97  | 10400                                | 3.7                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.9                       | 145                    | 113.94  | 10400                                | 4.1                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.9                       | 166                    | 199.81  | 10300                                | 3.6                | R<br>RF                                                                            | 67<br>67         | DR<br>DR | 63S4<br>63S4 | 30        | 148                                                                                 |
|                        | 7.5                       | 153                    | 184.07  | 10400                                | 3.9                |                                                                                    |                  |          |              | 33        | 149                                                                                 |
|                        | 4.8                       | 240                    | 186.89  | 7780                                 | 1.90               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.2                       | 220                    | 172.17  | 7820                                 | 2.1                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.1                       | 188                    | 147.92  | 7870                                 | 2.4                | R<br>RF                                                                            | 57<br>57         | DR<br>DR | 63M6<br>63M6 | 23        | 145                                                                                 |
|                        | 7.0                       | 164                    | 128.77  | 7910                                 | 2.7                |                                                                                    |                  |          |              | 27        | 146                                                                                 |
|                        | 7.5                       | 154                    | 120.63  | 7920                                 | 2.9                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.4                       | 136                    | 106.58  | 7950                                 | 3.3                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 9.1                       | 126                    | 98.99   | 7960                                 | 3.6                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.4                       | 155                    | 186.89  | 7920                                 | 2.9                | R<br>RF                                                                            | 57<br>57         | DR<br>DR | 63S4<br>63S4 | 23        | 145                                                                                 |
|                        | 8.0                       | 143                    | 172.17  | 7940                                 | 3.2                |                                                                                    |                  |          |              | 27        | 146                                                                                 |
|                        | 9.3                       | 123                    | 147.92  | 7960                                 | 3.7                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 11                        | 107                    | 128.77  | 7980                                 | 4.2                |                                                                                    |                  |          |              |           |                                                                                     |

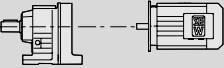


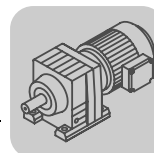
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |         |          |          |              | $m$<br>[kg] |     |
|---------------|------------------|---------------|--------|----------------------|-----------|---------|----------|----------|--------------|-------------|-----|
| 0.12          | 5.1              | 225           | 176.88 | 5760                 | 1.35      | R<br>RF | 47<br>47 | DR<br>DR | 63M6<br>63M6 | 18          | 142 |
|               | 5.5              | 210           | 162.94 | 5830                 | 1.45      |         |          |          |              | 18          | 143 |
|               | 6.4              | 178           | 139.99 | 5920                 | 1.70      |         |          |          |              | 18          | 143 |
|               | 7.4              | 155           | 121.87 | 5980                 | 1.95      |         |          |          |              | 18          | 143 |
|               | 7.8              | 147           | 176.88 | 6000                 | 2.0       | R<br>RF | 47<br>47 | DR<br>DR | 63S4<br>63S4 | 18          | 142 |
|               | 8.5              | 135           | 162.94 | 6030                 | 2.2       |         |          |          |              | 18          | 143 |
|               | 9.9              | 116           | 139.99 | 6070                 | 2.6       |         |          |          |              | 18          | 142 |
|               | 11               | 101           | 121.87 | 6100                 | 3.0       |         |          |          |              | 18          | 143 |
|               | 12               | 95            | 114.17 | 6110                 | 3.2       | R<br>RF | 37<br>37 | DR<br>DR | 63M6<br>63M6 | 14          | 139 |
|               | 14               | 84            | 100.86 | 6120                 | 3.6       |         |          |          |              | 16          | 140 |
|               | 15               | 78            | 93.68  | 6130                 | 3.9       |         |          |          |              | 16          | 140 |
|               | 6.7              | 172           | 134.82 | 5270                 | 1.15      |         |          |          |              | 14          | 139 |
|               | 7.3              | 157           | 123.66 | 5410                 | 1.25      | R<br>RF | 37<br>37 | DR<br>DR | 63S4<br>63S4 | 14          | 139 |
|               | 8.6              | 134           | 105.28 | 5600                 | 1.50      |         |          |          |              | 16          | 140 |
|               | 9.9              | 116           | 90.77  | 5730                 | 1.75      |         |          |          |              | 16          | 140 |
|               | 11               | 108           | 84.61  | 5770                 | 1.85      |         |          |          |              | 16          | 140 |
|               | 12               | 94            | 73.96  | 5850                 | 2.1       | R<br>RF | 27<br>27 | DR<br>DR | 63M6<br>63M6 | 8.3         | 136 |
|               | 10               | 112           | 134.82 | 5750                 | 1.80      |         |          |          |              | 8.2         | 137 |
|               | 11               | 103           | 123.66 | 5800                 | 1.95      |         |          |          |              | 8.2         | 137 |
|               | 13               | 87            | 105.28 | 5880                 | 2.3       |         |          |          |              | 8.2         | 137 |
|               | 15               | 75            | 90.77  | 5930                 | 2.7       | R<br>RF | 27<br>27 | DR<br>DR | 63S4<br>63S4 | 8.3         | 136 |
|               | 16               | 70            | 84.61  | 5950                 | 2.8       |         |          |          |              | 8.2         | 137 |
|               | 19               | 61            | 73.96  | 5980                 | 3.3       |         |          |          |              | 8.2         | 137 |
|               | 7.3              | 158           | 123.91 | 4090                 | 0.80      |         |          |          |              | 8.3         | 136 |
|               | 8.5              | 134           | 105.49 | 4210                 | 0.95      | R<br>RF | 17<br>17 | DR<br>DR | 63M6<br>63M6 | 7.6         | 133 |
|               | 9.9              | 116           | 90.96  | 4300                 | 1.10      |         |          |          |              | 7.5         | 134 |
|               | 11               | 108           | 84.78  | 4330                 | 1.20      |         |          |          |              | 7.5         | 134 |
|               | 12               | 94            | 74.11  | 4370                 | 1.40      |         |          |          |              | 7.5         | 134 |
|               | 10               | 112           | 135.09 | 4310                 | 1.15      | R<br>RF | 17<br>17 | DR<br>DR | 63S4<br>63S4 | 7.6         | 133 |
|               | 11               | 103           | 123.91 | 4340                 | 1.25      |         |          |          |              | 7.5         | 134 |
|               | 13               | 88            | 105.49 | 4390                 | 1.50      |         |          |          |              | 7.5         | 134 |
|               | 15               | 76            | 90.96  | 4430                 | 1.70      |         |          |          |              | 7.5         | 134 |
|               | 16               | 70            | 84.78  | 4440                 | 1.85      | R<br>RF | 17<br>17 | DR<br>DR | 63S4<br>63S4 | 7.6         | 133 |
|               | 19               | 62            | 74.11  | 4460                 | 2.1       |         |          |          |              | 7.5         | 134 |
|               | 20               | 58            | 69.47  | 4470                 | 2.3       |         |          |          |              | 7.5         | 134 |
|               | 23               | 51            | 61.30  | 4400                 | 2.6       |         |          |          |              | 7.5         | 134 |
|               | 25               | 46            | 55.87  | 4280                 | 2.8       | R<br>RF | 17<br>17 | DR<br>DR | 63S4<br>63S4 | 7.6         | 133 |
|               | 29               | 40            | 48.17  | 4090                 | 3.3       |         |          |          |              | 7.5         | 134 |
|               | 31               | 37            | 44.90  | 4000                 | 3.5       |         |          |          |              | 7.5         | 134 |
|               | 11               | 104           | 81.64  | 300                  | 0.80      |         |          |          |              | 7.6         | 133 |
|               | 13               | 90            | 70.39  | 1470                 | 0.95      | R<br>RF | 17<br>17 | DR<br>DR | 63M6<br>63M6 | 7.6         | 133 |
|               | 14               | 84            | 65.61  | 1860                 | 1.00      |         |          |          |              | 7.5         | 134 |
|               | 16               | 73            | 57.35  | 2430                 | 1.15      |         |          |          |              | 7.5         | 134 |
|               | 17               | 68            | 53.76  | 2500                 | 1.25      |         |          |          |              | 7.5         | 134 |
|               | 19               | 60            | 47.44  | 2500                 | 1.40      | R<br>RF | 17<br>17 | DR<br>DR | 63S4<br>63S4 | 7.6         | 133 |
|               | 17               | 68            | 81.64  | 2500                 | 1.25      |         |          |          |              | 7.5         | 134 |
|               | 20               | 58            | 70.39  | 2500                 | 1.45      |         |          |          |              | 7.5         | 134 |
|               | 21               | 55            | 65.61  | 2500                 | 1.55      |         |          |          |              | 7.5         | 134 |
|               | 24               | 48            | 57.35  | 2500                 | 1.80      | R<br>RF | 17<br>17 | DR<br>DR | 63S4<br>63S4 | 7.6         | 133 |
|               | 26               | 45            | 53.76  | 2500                 | 1.90      |         |          |          |              | 7.5         | 134 |
|               | 29               | 39            | 47.44  | 2500                 | 2.2       |         |          |          |              | 7.5         | 134 |
|               | 31               | 37            | 44.18  | 2500                 | 2.3       |         |          |          |              | 7.5         | 134 |
|               | 36               | 32            | 38.61  | 2430                 | 2.7       | R<br>RF | 17<br>17 | DR<br>DR | 63S4<br>63S4 | 7.6         | 133 |
|               | 38               | 30            | 36.20  | 2390                 | 2.8       |         |          |          |              | 7.5         | 134 |
|               | 43               | 27            | 31.94  | 2310                 | 3.2       |         |          |          |              | 7.5         | 134 |
|               | 49               | 24            | 28.32  | 2230                 | 3.6       |         |          |          |              | 7.5         | 134 |
|               | 57               | 20            | 24.07  | 2130                 | 4.3       |         |          |          |              | 7.5         | 134 |

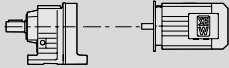


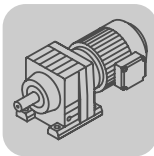
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |              | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|--------------|------------|-------------------------------------------------------------------------------------|
| 0.12                   | 22                        | 53                     | 60.32 | 1480                                 | 0.95               | R<br>RF                                                                            | 07<br>07           | DT<br>DT | 56L4<br>56L4 | 5.9<br>5.9 | 130<br>131                                                                          |
|                        | 25                        | 45                     | 51.52 | 1540                                 | 1.10               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 27                        | 42                     | 47.78 | 1550                                 | 1.20               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 29                        | 39                     | 44.16 | 1550                                 | 1.30               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 31                        | 36                     | 41.31 | 1530                                 | 1.35               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 32                        | 36                     | 40.34 | 1520                                 | 1.40               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 34                        | 34                     | 38.51 | 1510                                 | 1.45               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 38                        | 30                     | 34.05 | 1470                                 | 1.65               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 45                        | 26                     | 29.08 | 1410                                 | 1.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 48                        | 24                     | 26.97 | 1390                                 | 2.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 56                        | 21                     | 23.32 | 1340                                 | 2.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 60                        | 19                     | 21.73 | 1310                                 | 2.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 71                        | 16                     | 18.31 | 1250                                 | 3.1                | R<br>RF                                                                            | 07<br>07           | DT<br>DT | 56L4<br>56L4 | 5.7<br>5.7 | 130<br>131                                                                          |
|                        | 78                        | 15                     | 16.73 | 1220                                 | 3.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 92                        | 12                     | 14.12 | 1170                                 | 4.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 108                       | 11                     | 12.06 | 1120                                 | 4.7                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 116                       | 9.9                    | 11.18 | 1090                                 | 5.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 134                       | 8.5                    | 9.67  | 1050                                 | 5.9                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 144                       | 7.9                    | 9.01  | 1030                                 | 6.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 166                       | 6.9                    | 7.85  | 990                                  | 7.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 174                       | 6.6                    | 7.48  | 970                                  | 6.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 190                       | 6.0                    | 6.83  | 950                                  | 7.2                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 226                       | 5.1                    | 5.76  | 900                                  | 7.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 264                       | 4.3                    | 4.92  | 860                                  | 8.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 285                       | 4.0                    | 4.57  | 840                                  | 9.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 329                       | 3.5                    | 3.95  | 800                                  | 9.7                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 353                       | 3.2                    | 3.68  | 780                                  | 10                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 405                       | 2.8                    | 3.21  | 750                                  | 11                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 227                       | 5.0                    | 6.07  | 4270                                 | 8.6                | RX<br>RXF                                                                          | 67<br>67           | DR<br>DR | 63S4<br>63S4 | 16<br>20   | 120<br>121                                                                          |
|                        | 267                       | 4.3                    | 5.18  | 4050                                 | 17                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 305                       | 3.8                    | 4.53  | 3870                                 | 22                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 321                       | 3.6                    | 4.30* | 3810                                 | 22                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 251                       | 4.6                    | 5.50* | 3360                                 | 8.5                | RX<br>RXF                                                                          | 57<br>57           | DR<br>DR | 63S4<br>63S4 | 14<br>16   | 118<br>119                                                                          |
|                        | 272                       | 4.2                    | 5.07  | 3270                                 | 8.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 317                       | 3.6                    | 4.35  | 3120                                 | 19                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 364                       | 3.1                    | 3.79  | 2980                                 | 22                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 389                       | 2.9                    | 3.55* | 2910                                 | 24                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 440                       | 2.6                    | 3.14  | 2800                                 | 25                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 474                       | 2.4                    | 2.91  | 2730                                 | 28                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 523                       | 2.2                    | 2.64* | 2640                                 | 31                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 582                       | 2.0                    | 2.37  | 2550                                 | 35                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 676                       | 1.7                    | 2.04  | 2430                                 | 41                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 719                       | 1.6                    | 1.92* | 2380                                 | 43                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 835                       | 1.4                    | 1.65  | 2260                                 | 49                 |                                                                                    |                    |          |              |            |                                                                                     |
| 0.18                   | 0.09                      | 15000                  | 14075 | 50900                                | 0.85               | R<br>RF                                                                            | 147 R77<br>147 R77 | DR<br>DR | 63M4<br>63M4 | 420<br>430 | 167<br>167                                                                          |
|                        | 0.11                      | 13100                  | 12344 | 62500                                | 1.00               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.12                      | 11600                  | 11143 | 65200                                | 1.10               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.14                      | 10300                  | 9743  | 67300                                | 1.25               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.16                      | 8550                   | 8443  | 69700                                | 1.50               | R<br>RF                                                                            | 147 R77<br>147 R77 | DR<br>DR | 63M4<br>63M4 | 420<br>430 | 167<br>167                                                                          |
|                        | 0.18                      | 7400                   | 7307  | 70900                                | 1.75               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.20                      | 6530                   | 6447  | 71800                                | 2.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.24                      | 5640                   | 5568  | 72500                                | 2.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.27                      | 5150                   | 4926  | 72800                                | 2.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.31                      | 4420                   | 4325  | 73300                                | 2.9                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.35                      | 3920                   | 3754  | 73600                                | 3.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.40                      | 3380                   | 3302  | 73800                                | 3.9                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.15                      | 8900                   | 8784  | 50100                                | 0.90               | R<br>RF                                                                            | 137 R77<br>137 R77 | DR<br>DR | 63M4<br>63M4 | 290<br>310 | 167<br>167                                                                          |
|                        | 0.18                      | 7390                   | 7479  | 54600                                | 1.10               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.20                      | 6950                   | 6559  | 55500                                | 1.15               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.23                      | 5770                   | 5834  | 57400                                | 1.40               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.26                      | 5420                   | 5116  | 57900                                | 1.50               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.30                      | 4520                   | 4464  | 59000                                | 1.75               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.34                      | 3980                   | 3928  | 59500                                | 2.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.28                      | 5060                   | 4709  | 58300                                | 1.60               |                                                                                    |                    |          |              |            |                                                                                     |
| 0.33                   | 4320                      | 4018                   | 59200 | 1.85                                 |                    |                                                                                    |                    |          |              |            |                                                                                     |
| 0.38                   | 3780                      | 3514                   | 59700 | 2.1                                  |                    |                                                                                    |                    |          |              |            |                                                                                     |
| 0.40                   | 3590                      | 3338                   | 59900 | 2.2                                  |                    |                                                                                    |                    |          |              |            |                                                                                     |
| 0.45                   | 3150                      | 2929                   | 60200 | 2.5                                  |                    |                                                                                    |                    |          |              |            |                                                                                     |



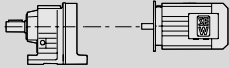
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$  | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                                  |                        |                            | $m$<br>[kg] |  |
|---------------|------------------|---------------|------|----------------------|-----------|------------------------------------------------------------------------------------|----------------------------------|------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------|
| <b>0.18</b>   | <b>0.30</b>      | 4490          | 4435 | 28400                | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 200         | 167                                                                                 |
|               | <b>0.34</b>      | 3980          | 3896 | 31100                | 1.10      |                                                                                    |                                  |                        |                            | 210         | 167                                                                                 |
|               | <b>0.43</b>      | 3220          | 3039 | 34200                | 1.35      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.34</b>      | 4210          | 3918 | 29900                | 1.00      | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 195         | 167                                                                                 |
|               | <b>0.39</b>      | 3590          | 3343 | 32800                | 1.20      |                                                                                    |                                  |                        |                            | 200         | 167                                                                                 |
|               | <b>0.44</b>      | 3260          | 3034 | 34100                | 1.30      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.50</b>      | 2850          | 2653 | 35400                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.58</b>      | 2450          | 2280 | 36200                | 1.75      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.64</b>      | 2220          | 2067 | 36500                | 1.95      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.66</b>      | 2100          | 1987 | 36700                | 2.1       | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 200         | 167                                                                                 |
|               | <b>0.72</b>      | 1870          | 1827 | 36900                | 2.3       |                                                                                    |                                  |                        |                            | 205         | 167                                                                                 |
|               | <b>0.83</b>      | 1600          | 1599 | 37200                | 2.7       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.94</b>      | 1440          | 1400 | 37300                | 3.0       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.1</b>       | 1230          | 1226 | 37400                | 3.5       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.49</b>      | 3000          | 2668 | 20000                | 1.00      | <b>R</b><br><b>RF</b>                                                              | <b>97 R57</b><br><b>97 R57</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 125         | 167                                                                                 |
|               | <b>0.59</b>      | 2480          | 2245 | 24200                | 1.20      |                                                                                    |                                  |                        |                            | 145         | 167                                                                                 |
|               | <b>0.65</b>      | 2210          | 2016 | 25500                | 1.35      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.76</b>      | 1970          | 1733 | 26500                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.81</b>      | 1840          | 1623 | 27000                | 1.65      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.92</b>      | 1610          | 1434 | 27500                | 1.85      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.1</b>       | 1330          | 1207 | 27900                | 2.3       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.2</b>       | 1190          | 1084 | 28000                | 2.5       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.4</b>       | 1000          | 934  | 28200                | 3.0       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.5</b>       | 940           | 878  | 28300                | 3.2       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.8</b>       | 790           | 755  | 28400                | 3.8       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.49</b>      | 3090          | 2722 | 15900                | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>97 R57</b><br><b>97 R57</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 130         | 167                                                                                 |
|               | <b>0.57</b>      | 2620          | 2311 | 23400                | 1.15      |                                                                                    |                                  |                        |                            | 145         | 167                                                                                 |
|               | <b>0.64</b>      | 2360          | 2078 | 24800                | 1.25      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.89</b>      | 1690          | 1489 | 15900                | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 85          | 167                                                                                 |
|               | <b>0.95</b>      | 1580          | 1395 | 16700                | 1.00      |                                                                                    |                                  |                        |                            | 92          | 167                                                                                 |
|               | <b>1.1</b>       | 1380          | 1232 | 18000                | 1.10      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.2</b>       | 1280          | 1145 | 18600                | 1.20      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.3</b>       | 1150          | 1037 | 19200                | 1.35      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.4</b>       | 1020          | 931  | 19800                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 860           | 802  | 20000                | 1.80      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.87</b>      | 1680          | 1524 | 15900                | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 85          | 167                                                                                 |
|               | <b>1.0</b>       | 1390          | 1303 | 17900                | 1.10      |                                                                                    |                                  |                        |                            | 92          | 167                                                                                 |
|               | <b>1.2</b>       | 1220          | 1143 | 18900                | 1.25      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.5</b>       | 980           | 885  | 19900                | 1.60      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 860           | 776  | 20000                | 1.80      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.5</b>       | 980           | 858  | 5830                 | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>77 R37</b><br><b>77 R37</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 45          | 167                                                                                 |
|               | <b>1.7</b>       | 850           | 757  | 9590                 | 0.95      |                                                                                    |                                  |                        |                            | 51          | 167                                                                                 |
|               | <b>2.0</b>       | 750           | 671  | 10500                | 1.10      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.3</b>       | 630           | 571  | 11400                | 1.30      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.6</b>       | 890           | 821  | 9230                 | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>77 R37</b><br><b>77 R37</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 46          | 167                                                                                 |
|               | <b>1.8</b>       | 800           | 731  | 10100                | 1.00      |                                                                                    |                                  |                        |                            | 52          | 167                                                                                 |
|               | <b>2.0</b>       | 745           | 646  | 10500                | 1.10      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.4</b>       | 645           | 560  | 11300                | 1.25      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.7</b>       | 550           | 488  | 11800                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.0</b>       | 490           | 436  | 12100                | 1.70      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.5</b>       | 420           | 373  | 12400                | 1.95      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.0</b>       | 370           | 327  | 12600                | 2.2       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.6</b>       | 330           | 289  | 12700                | 2.5       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.3</b>       | 640           | 571  | 7060                 | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>67 R37</b><br><b>67 R37</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 40          | 167                                                                                 |
|               | <b>2.7</b>       | 535           | 486  | 8250                 | 1.10      |                                                                                    |                                  |                        |                            | 43          | 167                                                                                 |
|               | <b>2.3</b>       | 655           | 574  | 5820                 | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>67 R37</b><br><b>67 R37</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 41          | 167                                                                                 |
|               | <b>2.7</b>       | 565           | 495  | 7950                 | 1.05      |                                                                                    |                                  |                        |                            | 44          | 167                                                                                 |
|               | <b>3.0</b>       | 480           | 438  | 8740                 | 1.25      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.4</b>       | 425           | 388  | 9160                 | 1.40      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.8</b>       | 395           | 344  | 9380                 | 1.55      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.5</b>       | 320           | 294  | 9800                 | 1.90      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>5.1</b>       | 290           | 261  | 9920                 | 2.1       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.9</b>       | 500           | 454  | 6650                 | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>57 R37</b><br><b>57 R37</b>   | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 33          | 167                                                                                 |
|               | <b>3.2</b>       | 455           | 410  | 7090                 | 1.00      |                                                                                    |                                  |                        |                            | 37          | 167                                                                                 |

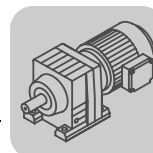


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                  |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|------------------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.18                   | 2.8                       | 540                    | 471     | 5250                                 | 0.85               | R<br>RF                                                                            | 57 R37<br>57 R37 | DR<br>DR | 63M4<br>63M4 | 34        | 167                                                                                 |
|                        | 3.7                       | 405                    | 357     | 7300                                 | 1.10               |                                                                                    |                  |          |              | 38        | 167                                                                                 |
|                        | 4.1                       | 355                    | 319     | 7460                                 | 1.25               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.8                       | 300                    | 273     | 7630                                 | 1.50               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.5                       | 260                    | 241     | 7730                                 | 1.75               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.1                       | 235                    | 215     | 7790                                 | 1.95               | R<br>RF                                                                            | 57 R37<br>57 R37 | DR<br>DR | 63M4<br>63M4 | 33        | 167                                                                                 |
|                        | 3.7                       | 420                    | 359     | 7230                                 | 1.05               |                                                                                    |                  |          |              | 37        | 167                                                                                 |
|                        | 4.1                       | 380                    | 324     | 7380                                 | 1.20               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.5                       | 335                    | 290     | 7530                                 | 1.35               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.0                       | 305                    | 262     | 7620                                 | 1.50               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.4                       | 280                    | 246     | 7680                                 | 1.60               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.0                       | 250                    | 220     | 7750                                 | 1.80               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.0                       | 210                    | 188     | 7830                                 | 2.1                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.3                       | 177                    | 159     | 7890                                 | 2.6                | R<br>RF                                                                            | 47 R37<br>47 R37 | DR<br>DR | 63M4<br>63M4 | 28        | 167                                                                                 |
|                        | 4.4                       | 350                    | 301     | 4150                                 | 0.85               |                                                                                    |                  |          |              | 28        | 167                                                                                 |
|                        | 5.2                       | 290                    | 255     | 5460                                 | 1.05               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.8                       | 260                    | 228     | 5630                                 | 1.15               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63M4<br>63M4 | 17        | 167                                                                                 |
|                        | 6.8                       | 220                    | 195     | 5790                                 | 1.40               |                                                                                    |                  |          |              | 19        | 167                                                                                 |
|                        | 6.6                       | 230                    | 199     | 4510                                 | 0.85               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.7                       | 199                    | 172     | 4960                                 | 1.00               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63M4<br>63M4 | 17        | 167                                                                                 |
|                        | 8.8                       | 173                    | 150     | 5260                                 | 1.15               |                                                                                    |                  |          |              | 18        | 167                                                                                 |
|                        | 6.5                       | 235                    | 202     | 4050                                 | 0.85               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.4                       | 205                    | 179     | 4870                                 | 0.95               | R<br>RF                                                                            | 27 R17<br>27 R17 | DR<br>DR | 63M4<br>63M4 | 11        | 167                                                                                 |
|                        | 8.5                       | 176                    | 156     | 5230                                 | 1.15               |                                                                                    |                  |          |              | 11        | 167                                                                                 |
|                        | 9.4                       | 157                    | 141     | 4100                                 | 0.85               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 11                        | 139                    | 124     | 4190                                 | 0.95               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 12                        | 125                    | 110     | 4260                                 | 1.05               | R<br>RF                                                                            | 27 R17<br>27 R17 | DR<br>DR | 63M4<br>63M4 | 11        | 167                                                                                 |
|                        | 14                        | 105                    | 94      | 4340                                 | 1.25               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 9.8                       | 152                    | 135     | 4120                                 | 0.85               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 11                        | 139                    | 118     | 4190                                 | 0.95               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 13                        | 121                    | 104     | 4270                                 | 1.10               | R<br>RF                                                                            | 77<br>77         | DR<br>DR | 63L6<br>63L6 | 38        | 151                                                                                 |
|                        | 15                        | 105                    | 90      | 4340                                 | 1.25               |                                                                                    |                  |          |              | 43        | 152                                                                                 |
|                        | 4.5                       | 385                    | 195.24* | 12500                                | 2.1                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.2                       | 330                    | 166.59  | 12700                                | 2.5                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.0                       | 290                    | 145.67  | 12800                                | 2.9                | R<br>RF                                                                            | 77<br>77         | DR<br>DR | 63L6<br>63L6 | 38        | 151                                                                                 |
|                        | 6.3                       | 275                    | 138.39  | 12900                                | 3.0                |                                                                                    |                  |          |              | 43        | 152                                                                                 |
|                        | 7.2                       | 240                    | 121.42  | 12900                                | 3.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.8                       | 255                    | 195.24* | 12900                                | 3.2                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.9                       | 215                    | 166.59  | 13000                                | 3.8                | R<br>RF                                                                            | 67<br>67         | DR<br>DR | 63L6<br>63L6 | 37        | 151                                                                                 |
|                        | 9.1                       | 190                    | 145.67  | 13000                                | 4.3                |                                                                                    |                  |          |              | 43        | 152                                                                                 |
|                        | 9.5                       | 180                    | 138.39  | 13000                                | 4.6                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.4                       | 395                    | 199.81  | 9370                                 | 1.50               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.7                       | 365                    | 184.07  | 9560                                 | 1.65               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.5                       | 310                    | 158.14  | 9830                                 | 1.90               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.3                       | 270                    | 137.67  | 10000                                | 2.2                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.8                       | 255                    | 128.97  | 10100                                | 2.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.6                       | 225                    | 113.94  | 10200                                | 2.7                | R<br>RF                                                                            | 67<br>67         | DR<br>DR | 63M4<br>63M4 | 31        | 148                                                                                 |
|                        | 8.2                       | 210                    | 105.83  | 10200                                | 2.9                |                                                                                    |                  |          |              | 34        | 149                                                                                 |
|                        | 9.1                       | 190                    | 95.91   | 10300                                | 3.2                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 10                        | 170                    | 86.11   | 10300                                | 3.5                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 12                        | 147                    | 74.17   | 10400                                | 4.1                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 12                        | 138                    | 69.75   | 10400                                | 4.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.6                       | 260                    | 199.81  | 10100                                | 2.3                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.2                       | 240                    | 184.07  | 10100                                | 2.5                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.3                       | 205                    | 158.14  | 10200                                | 2.9                | R<br>RF                                                                            | 67<br>67         | DR<br>DR | 63M4<br>63M4 | 30        | 148                                                                                 |
|                        | 9.6                       | 179                    | 137.67  | 10300                                | 3.4                |                                                                                    |                  |          |              | 33        | 149                                                                                 |
|                        | 10                        | 168                    | 128.97  | 10300                                | 3.6                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 12                        | 148                    | 113.94  | 10400                                | 4.0                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 12                        | 138                    | 105.83  | 10400                                | 4.4                | R<br>RF                                                                            | 57<br>57         | DR<br>DR | 63L6<br>63L6 | 24        | 145                                                                                 |
|                        | 4.7                       | 370                    | 186.89  | 7420                                 | 1.20               |                                                                                    |                  |          |              | 27        | 146                                                                                 |
|                        | 5.0                       | 340                    | 172.17  | 7510                                 | 1.30               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.9                       | 290                    | 147.92  | 7650                                 | 1.55               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.8                       | 255                    | 128.77  | 7740                                 | 1.75               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.2                       | 240                    | 120.63  | 7780                                 | 1.90               |                                                                                    |                  |          |              |           |                                                                                     |

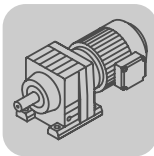


# R..DR/DT/DV R..D.. [kW]

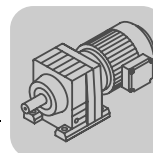
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.18                   | 7.1                       | 245                    | 186.89 | 7770                                 | 1.85               | R<br>RF                                                                            | 57<br>57 | DR<br>DR | 63M4<br>63M4 | 23        | 145                                                                                 |
|                        | 7.7                       | 225                    | 172.17 | 7810                                 | 2.0                |                                                                                    |          |          |              | 27        | 146                                                                                 |
|                        | 8.9                       | 193                    | 147.92 | 7870                                 | 2.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 10                        | 168                    | 128.77 | 7900                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 157                    | 120.63 | 7920                                 | 2.9                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 12                        | 139                    | 106.58 | 7940                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 129                    | 98.99  | 7950                                 | 3.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 15                        | 117                    | 89.71  | 7970                                 | 3.9                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 7.5                       | 230                    | 176.88 | 5740                                 | 1.30               | R<br>RF                                                                            | 47<br>47 | DR<br>DR | 63M4<br>63M4 | 18        | 142                                                                                 |
|                        | 8.1                       | 210                    | 162.94 | 5810                                 | 1.40               |                                                                                    |          |          |              | 18        | 143                                                                                 |
|                        | 9.4                       | 182                    | 139.99 | 5910                                 | 1.65               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 159                    | 121.87 | 5980                                 | 1.90               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 12                        | 149                    | 114.17 | 6000                                 | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 131                    | 100.86 | 6040                                 | 2.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 14                        | 122                    | 93.68  | 6060                                 | 2.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 16                        | 111                    | 84.90  | 6080                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 17                        | 99                     | 76.23  | 6100                                 | 3.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 7.0                       | 245                    | 123.66 | 3060                                 | 0.80               | R<br>RF                                                                            | 37<br>37 | DR<br>DR | 63L6<br>63L6 | 15        | 139                                                                                 |
|                        | 8.3                       | 210                    | 105.28 | 4840                                 | 0.95               |                                                                                    |          |          |              | 16        | 140                                                                                 |
|                        | 9.6                       | 179                    | 90.77  | 5190                                 | 1.10               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 10                        | 167                    | 84.61  | 5310                                 | 1.20               | R<br>RF                                                                            | 37<br>37 | DR<br>DR | 63M4<br>63M4 | 14        | 139                                                                                 |
|                        | 9.8                       | 176                    | 134.82 | 5230                                 | 1.15               |                                                                                    |          |          |              | 16        | 140                                                                                 |
|                        | 11                        | 161                    | 123.66 | 5370                                 | 1.25               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 137                    | 105.28 | 5580                                 | 1.45               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 15                        | 118                    | 90.77  | 5710                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 16                        | 110                    | 84.61  | 5760                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 18                        | 96                     | 73.96  | 5840                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 19                        | 90                     | 69.33  | 5870                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 22                        | 80                     | 61.18  | 5920                                 | 2.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 73                     | 55.76  | 5940                                 | 2.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 27                        | 63                     | 48.08  | 5960                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 161                    | 123.91 | 4070                                 | 0.80               | R<br>RF                                                                            | 27<br>27 | DR<br>DR | 63M4<br>63M4 | 8.3       | 136                                                                                 |
|                        | 13                        | 137                    | 105.49 | 4200                                 | 0.95               |                                                                                    |          |          |              | 8.2       | 137                                                                                 |
|                        | 15                        | 118                    | 90.96  | 4280                                 | 1.10               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 16                        | 110                    | 84.78  | 4320                                 | 1.20               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 18                        | 97                     | 74.11  | 4370                                 | 1.35               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 19                        | 91                     | 69.47  | 4380                                 | 1.45               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 22                        | 80                     | 61.30  | 4320                                 | 1.65               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 73                     | 55.87  | 4210                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 27                        | 63                     | 48.17  | 4040                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 29                        | 59                     | 44.90  | 3960                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 34                        | 51                     | 39.25  | 3810                                 | 2.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 36                        | 48                     | 36.79  | 3740                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 41                        | 42                     | 32.47  | 3610                                 | 3.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 46                        | 38                     | 28.78  | 3480                                 | 3.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 54                        | 32                     | 24.47  | 3310                                 | 4.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 47                        | 37                     | 28.37  | 3470                                 | 3.5                | R<br>RF                                                                            | 27<br>27 | DR<br>DR | 63M4<br>63M4 | 8.0       | 136                                                                                 |
|                        | 51                        | 34                     | 26.09  | 3380                                 | 3.8                |                                                                                    |          |          |              | 7.9       | 137                                                                                 |
|                        | 59                        | 29                     | 22.32  | 3220                                 | 4.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 68                        | 25                     | 19.35  | 3090                                 | 5.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 73                        | 24                     | 18.08  | 3020                                 | 5.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 84                        | 20                     | 15.63  | 2890                                 | 6.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 99                        | 17                     | 13.28* | 2750                                 | 7.5                | R<br>RF                                                                            | 17<br>17 | DR<br>DR | 63M4<br>63M4 | 7.6       | 133                                                                                 |
|                        | 16                        | 106                    | 81.64  | 46                                   | 0.80               |                                                                                    |          |          |              | 7.5       | 134                                                                                 |
|                        | 19                        | 92                     | 70.39  | 1330                                 | 0.95               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 85                     | 65.61  | 1740                                 | 1.00               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 23                        | 75                     | 57.35  | 2350                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 25                        | 70                     | 53.76  | 2500                                 | 1.20               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 28                        | 62                     | 47.44  | 2450                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 30                        | 58                     | 44.18  | 2410                                 | 1.50               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 34                        | 50                     | 38.61  | 2340                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 36                        | 47                     | 36.20  | 2300                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 41                        | 42                     | 31.94  | 2240                                 | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 47                        | 37                     | 28.32  | 2170                                 | 2.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 55                        | 31                     | 24.07  | 2080                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |

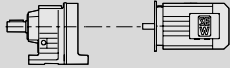


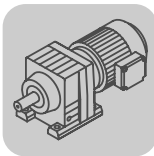
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$   | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |          |          |              | $m$<br>[kg] |  |
|---------------|------------------|---------------|-------|----------------------|-----------|------------------------------------------------------------------------------------|----------|----------|--------------|-------------|-------------------------------------------------------------------------------------|
| 0.18          | 52               | 33            | 25.23 | 2110                 | 2.6       | R<br>RF                                                                            | 17<br>17 | DR<br>DR | 63M4<br>63M4 | 7.3         | 133                                                                                 |
|               | 57               | 30            | 23.15 | 2060                 | 2.8       |                                                                                    |          |          |              | 7.2         | 134                                                                                 |
|               | 67               | 26            | 19.71 | 1970                 | 3.3       |                                                                                    |          |          |              |             |                                                                                     |
|               | 78               | 22            | 16.99 | 1890                 | 3.9       |                                                                                    |          |          |              |             |                                                                                     |
|               | 28               | 62            | 47.78 | 1110                 | 0.80      | R<br>RF                                                                            | 07<br>07 | DR<br>DR | 63M4<br>63M4 | 6.5         | 130                                                                                 |
|               | 30               | 58            | 44.16 | 1340                 | 0.85      |                                                                                    |          |          |              | 6.5         | 131                                                                                 |
|               | 32               | 54            | 41.31 | 1390                 | 0.95      |                                                                                    |          |          |              |             |                                                                                     |
|               | 33               | 53            | 40.34 | 1390                 | 0.95      |                                                                                    |          |          |              |             |                                                                                     |
|               | 34               | 50            | 38.51 | 1380                 | 1.00      |                                                                                    |          |          |              |             |                                                                                     |
|               | 39               | 44            | 34.05 | 1350                 | 1.15      |                                                                                    |          |          |              |             |                                                                                     |
|               | 45               | 38            | 29.08 | 1310                 | 1.30      |                                                                                    |          |          |              |             |                                                                                     |
|               | 49               | 35            | 26.97 | 1290                 | 1.40      |                                                                                    |          |          |              |             |                                                                                     |
|               | 57               | 30            | 23.32 | 1250                 | 1.65      |                                                                                    |          |          |              |             |                                                                                     |
|               | 61               | 28            | 21.73 | 1240                 | 1.75      |                                                                                    |          |          |              |             |                                                                                     |
|               | 72               | 24            | 18.31 | 1190                 | 2.1       | R<br>RF                                                                            | 07<br>07 | DR<br>DR | 63M4<br>63M4 | 6.3         | 130                                                                                 |
|               | 79               | 22            | 16.73 | 1160                 | 2.3       |                                                                                    |          |          |              | 6.3         | 131                                                                                 |
|               | 94               | 18            | 14.12 | 1120                 | 2.7       |                                                                                    |          |          |              |             |                                                                                     |
|               | 109              | 16            | 12.06 | 1070                 | 3.2       |                                                                                    |          |          |              |             |                                                                                     |
|               | 118              | 15            | 11.18 | 1050                 | 3.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 137              | 13            | 9.67  | 1010                 | 4.0       |                                                                                    |          |          |              |             |                                                                                     |
|               | 146              | 12            | 9.01  | 990                  | 4.3       |                                                                                    |          |          |              |             |                                                                                     |
|               | 168              | 10            | 7.85  | 960                  | 4.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 177              | 9.7           | 7.48  | 940                  | 4.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 193              | 8.9           | 6.83  | 920                  | 4.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 229              | 7.5           | 5.76  | 880                  | 5.3       |                                                                                    |          |          |              |             |                                                                                     |
|               | 268              | 6.4           | 4.92  | 840                  | 5.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 289              | 5.9           | 4.57  | 820                  | 6.1       |                                                                                    |          |          |              |             |                                                                                     |
|               | 334              | 5.1           | 3.95  | 785                  | 6.7       |                                                                                    |          |          |              |             |                                                                                     |
|               | 359              | 4.8           | 3.68  | 765                  | 6.9       |                                                                                    |          |          |              |             |                                                                                     |
|               | 412              | 4.2           | 3.21  | 735                  | 7.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 243              | 7.1           | 11.18 | 860                  | 7.0       | R<br>RF                                                                            | 07<br>07 | DR<br>DR | 63S2<br>63S2 | 6.3         | 130                                                                                 |
|               | 281              | 6.1           | 9.67  | 820                  | 8.2       |                                                                                    |          |          |              | 6.3         | 131                                                                                 |
|               | 302              | 5.7           | 9.01  | 810                  | 8.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 346              | 5.0           | 7.85  | 775                  | 9.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 364              | 4.7           | 7.48  | 765                  | 9.2       |                                                                                    |          |          |              |             |                                                                                     |
|               | 398              | 4.3           | 6.83  | 740                  | 10        |                                                                                    |          |          |              |             |                                                                                     |
|               | 472              | 3.6           | 5.76  | 705                  | 11        |                                                                                    |          |          |              |             |                                                                                     |
|               | 552              | 3.1           | 4.92  | 670                  | 12        |                                                                                    |          |          |              |             |                                                                                     |
|               | 596              | 2.9           | 4.57  | 655                  | 12        |                                                                                    |          |          |              |             |                                                                                     |
|               | 689              | 2.5           | 3.95  | 625                  | 14        |                                                                                    |          |          |              |             |                                                                                     |
|               | 739              | 2.3           | 3.68  | 615                  | 14        |                                                                                    |          |          |              |             |                                                                                     |
|               | 848              | 2.0           | 3.21  | 585                  | 16        |                                                                                    |          |          |              |             |                                                                                     |
|               | 143              | 12            | 6.07  | 4940                 | 3.6       | RX<br>RXF                                                                          | 67<br>67 | DR<br>DR | 63L6<br>63L6 | 17          | 120                                                                                 |
|               | 168              | 10            | 5.18  | 4690                 | 7.4       |                                                                                    |          |          |              | 21          | 121                                                                                 |
|               | 192              | 8.9           | 4.53  | 4490                 | 9.2       |                                                                                    |          |          |              |             |                                                                                     |
|               | 202              | 8.5           | 4.30* | 4410                 | 9.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 218              | 7.9           | 6.07  | 4310                 | 5.4       | RX<br>RXF                                                                          | 67<br>67 | DR<br>DR | 63M4<br>63M4 | 16          | 120                                                                                 |
|               | 255              | 6.7           | 5.18  | 4090                 | 11        |                                                                                    |          |          |              | 20          | 121                                                                                 |
|               | 292              | 5.9           | 4.53  | 3920                 | 14        |                                                                                    |          |          |              |             |                                                                                     |
|               | 307              | 5.6           | 4.30* | 3850                 | 14        |                                                                                    |          |          |              |             |                                                                                     |
|               | 350              | 4.9           | 3.77  | 3690                 | 18        |                                                                                    |          |          |              |             |                                                                                     |
|               | 413              | 4.2           | 3.20* | 3500                 | 24        |                                                                                    |          |          |              |             |                                                                                     |
|               | 457              | 3.8           | 2.89  | 3380                 | 28        |                                                                                    |          |          |              |             |                                                                                     |
|               | 519              | 3.3           | 2.54  | 3240                 | 36        |                                                                                    |          |          |              |             |                                                                                     |
|               | 550              | 3.1           | 2.40* | 3180                 | 40        |                                                                                    |          |          |              |             |                                                                                     |
|               | 646              | 2.7           | 2.04  | 3020                 | 50        |                                                                                    |          |          |              |             |                                                                                     |
|               | 158              | 11            | 5.50* | 3880                 | 3.6       | RX<br>RXF                                                                          | 57<br>57 | DR<br>DR | 63L6<br>63L6 | 14          | 118                                                                                 |
|               | 172              | 10            | 5.07  | 3780                 | 3.6       |                                                                                    |          |          |              | 16          | 119                                                                                 |
|               | 200              | 8.6           | 4.35  | 3600                 | 7.9       |                                                                                    |          |          |              |             |                                                                                     |
|               | 230              | 7.5           | 3.79  | 3440                 | 9.2       |                                                                                    |          |          |              |             |                                                                                     |

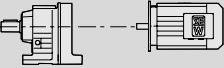


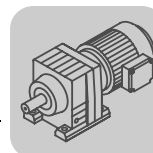
| <b>P<sub>m</sub></b><br>[kW] | <b>n<sub>a</sub></b><br>[1/min] | <b>M<sub>a</sub></b><br>[Nm] | <b>i</b> | <b>F<sub>Ra</sub><sup>1)</sup></b><br>[N] | <b>SEW f<sub>B</sub></b> |           |                |           |             | <b>m</b><br>[kg] |     |
|------------------------------|---------------------------------|------------------------------|----------|-------------------------------------------|--------------------------|-----------|----------------|-----------|-------------|------------------|-----|
| <b>0.18</b>                  | <b>240</b>                      | 7.2                          | 5.50*    | 3400                                      | 5.4                      | <b>RX</b> | <b>57</b>      | <b>DR</b> | <b>63M4</b> | 14               | 118 |
|                              | <b>261</b>                      | 6.6                          | 5.07     | 3310                                      | 5.5                      |           |                |           |             |                  |     |
|                              | <b>303</b>                      | 5.7                          | 4.35     | 3150                                      | 12                       |           |                |           |             |                  |     |
|                              | <b>348</b>                      | 4.9                          | 3.79     | 3010                                      | 14                       |           |                |           |             |                  |     |
|                              | <b>372</b>                      | 4.6                          | 3.55*    | 2950                                      | 15                       |           |                |           |             |                  |     |
|                              | <b>421</b>                      | 4.1                          | 3.14     | 2830                                      | 16                       |           |                |           |             |                  |     |
|                              | <b>453</b>                      | 3.8                          | 2.91     | 2760                                      | 18                       |           |                |           |             |                  |     |
|                              | <b>500</b>                      | 3.4                          | 2.64*    | 2670                                      | 20                       |           |                |           |             |                  |     |
|                              | <b>557</b>                      | 3.1                          | 2.37     | 2580                                      | 22                       |           |                |           |             |                  |     |
|                              | <b>647</b>                      | 2.7                          | 2.04     | 2460                                      | 26                       |           |                |           |             |                  |     |
|                              | <b>688</b>                      | 2.5                          | 1.92*    | 2410                                      | 28                       |           |                |           |             |                  |     |
|                              | <b>799</b>                      | 2.2                          | 1.65     | 2290                                      | 31                       |           |                |           |             |                  |     |
| <b>0.25</b>                  | <b>0.13</b>                     | 15200                        | 9743     | 48200                                     | 0.85                     | <b>R</b>  | <b>147 R77</b> | <b>DR</b> | <b>63L4</b> | 420              | 167 |
|                              | <b>0.15</b>                     | 12800                        | 8443     | 63100                                     | 1.00                     |           |                |           |             |                  |     |
|                              | <b>0.18</b>                     | 11000                        | 7307     | 66200                                     | 1.20                     |           |                |           |             |                  |     |
|                              | <b>0.20</b>                     | 9740                         | 6447     | 68100                                     | 1.35                     |           |                |           |             |                  |     |
|                              | <b>0.23</b>                     | 8410                         | 5568     | 69800                                     | 1.55                     |           |                |           |             |                  |     |
|                              | <b>0.26</b>                     | 7600                         | 4926     | 70700                                     | 1.70                     |           |                |           |             |                  |     |
|                              | <b>0.30</b>                     | 6570                         | 4325     | 71700                                     | 2.0                      |           |                |           |             |                  |     |
|                              | <b>0.35</b>                     | 5790                         | 3754     | 72400                                     | 2.3                      |           |                |           |             |                  |     |
|                              | <b>0.39</b>                     | 5020                         | 3302     | 72900                                     | 2.6                      |           |                |           |             |                  |     |
|                              | <b>0.45</b>                     | 4380                         | 2898     | 73300                                     | 3.0                      |           |                |           |             |                  |     |
|                              | <b>0.22</b>                     | 8670                         | 5834     | 51100                                     | 0.90                     | <b>R</b>  | <b>137 R77</b> | <b>DR</b> | <b>63L4</b> | 290              | 167 |
|                              | <b>0.25</b>                     | 7970                         | 5116     | 53500                                     | 1.00                     |           |                |           |             |                  |     |
|                              | <b>0.29</b>                     | 6740                         | 4464     | 55800                                     | 1.20                     |           |                |           |             |                  |     |
|                              | <b>0.33</b>                     | 5930                         | 3928     | 57100                                     | 1.35                     |           |                |           |             |                  |     |
|                              | <b>0.28</b>                     | 7430                         | 4709     | 54600                                     | 1.10                     | <b>R</b>  | <b>137 R77</b> | <b>DR</b> | <b>63L4</b> | 280              | 167 |
|                              | <b>0.32</b>                     | 6340                         | 4018     | 56500                                     | 1.25                     |           |                |           |             |                  |     |
|                              | <b>0.37</b>                     | 5550                         | 3514     | 57700                                     | 1.45                     |           |                |           |             |                  |     |
|                              | <b>0.39</b>                     | 5270                         | 3338     | 58100                                     | 1.50                     |           |                |           |             |                  |     |
|                              | <b>0.44</b>                     | 4620                         | 2929     | 58900                                     | 1.75                     |           |                |           |             |                  |     |
|                              | <b>0.49</b>                     | 4190                         | 2658     | 59300                                     | 1.90                     | <b>R</b>  | <b>137 R77</b> | <b>DR</b> | <b>63L4</b> | 290              | 167 |
|                              | <b>0.54</b>                     | 3800                         | 2412     | 59700                                     | 2.1                      |           |                |           |             |                  |     |
|                              | <b>0.63</b>                     | 3270                         | 2073     | 60100                                     | 2.5                      |           |                |           |             |                  |     |
|                              | <b>0.71</b>                     | 2810                         | 1839     | 60500                                     | 2.8                      |           |                |           |             |                  |     |
|                              | <b>0.93</b>                     | 2180                         | 1397     | 60800                                     | 3.7                      |           |                |           |             |                  |     |
|                              | <b>1.1</b>                      | 1890                         | 1226     | 61000                                     | 4.2                      |           |                |           |             |                  |     |
|                              | <b>0.43</b>                     | 4730                         | 3039     | 25600                                     | 0.90                     | <b>R</b>  | <b>107 R77</b> | <b>DR</b> | <b>63L4</b> | 205              | 167 |
|                              |                                 |                              |          |                                           |                          |           |                |           |             |                  |     |
|                              | <b>0.43</b>                     | 4790                         | 3034     | 23600                                     | 0.90                     | <b>R</b>  | <b>107 R77</b> | <b>DR</b> | <b>63L4</b> | 195              | 167 |
|                              |                                 |                              |          |                                           |                          |           |                |           |             |                  |     |
|                              | <b>0.65</b>                     | 3100                         | 1987     | 34600                                     | 1.40                     | <b>R</b>  | <b>107 R77</b> | <b>DR</b> | <b>63L4</b> | 200              | 167 |
|                              | <b>0.71</b>                     | 2790                         | 1827     | 35600                                     | 1.55                     |           |                |           |             |                  |     |
|                              | <b>0.81</b>                     | 2410                         | 1599     | 36300                                     | 1.80                     |           |                |           |             |                  |     |
|                              | <b>0.93</b>                     | 2140                         | 1400     | 36600                                     | 2.0                      |           |                |           |             |                  |     |
|                              | <b>1.1</b>                      | 1840                         | 1226     | 36900                                     | 2.3                      |           |                |           |             |                  |     |
|                              | <b>1.4</b>                      | 1440                         | 939      | 37300                                     | 3.0                      |           |                |           |             |                  |     |
|                              | <b>1.6</b>                      | 1240                         | 822      | 37400                                     | 3.5                      |           |                |           |             |                  |     |
|                              | <b>0.75</b>                     | 2840                         | 1733     | 22000                                     | 1.05                     | <b>R</b>  | <b>97 R57</b>  | <b>DR</b> | <b>63L4</b> | 125              | 167 |
|                              | <b>0.80</b>                     | 2660                         | 1623     | 23200                                     | 1.15                     |           |                |           |             |                  |     |
|                              | <b>0.71</b>                     | 2960                         | 1823     | 21100                                     | 1.00                     | <b>R</b>  | <b>97 R57</b>  | <b>DR</b> | <b>63L4</b> | 130              | 167 |
|                              | <b>0.82</b>                     | 2570                         | 1583     | 23700                                     | 1.15                     |           |                |           |             |                  |     |
|                              | <b>0.93</b>                     | 2230                         | 1396     | 25400                                     | 1.35                     |           |                |           |             |                  |     |
|                              | <b>1.1</b>                      | 1940                         | 1228     | 26600                                     | 1.55                     |           |                |           |             |                  |     |
|                              | <b>1.2</b>                      | 1750                         | 1069     | 27300                                     | 1.70                     |           |                |           |             |                  |     |
|                              | <b>1.4</b>                      | 1530                         | 938      | 27600                                     | 1.95                     |           |                |           |             |                  |     |
|                              | <b>1.6</b>                      | 1300                         | 824      | 27900                                     | 2.3                      |           |                |           |             |                  |     |
|                              | <b>1.8</b>                      | 1160                         | 737      | 28100                                     | 2.6                      |           |                |           |             |                  |     |
|                              | <b>2.1</b>                      | 1000                         | 632      | 28200                                     | 3.0                      |           |                |           |             |                  |     |
|                              | <b>1.1</b>                      | 1850                         | 1145     | 10700                                     | 0.85                     | <b>R</b>  | <b>87 R57</b>  | <b>DR</b> | <b>63L4</b> | 85               | 167 |
|                              | <b>1.2</b>                      | 1670                         | 1037     | 16000                                     | 0.95                     |           |                |           |             |                  |     |
|                              | <b>1.4</b>                      | 1490                         | 931      | 17400                                     | 1.05                     |           |                |           |             |                  |     |
|                              | <b>1.6</b>                      | 1270                         | 802      | 18600                                     | 1.20                     |           |                |           |             |                  |     |



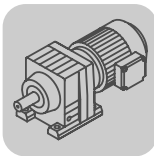
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                  |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|------------------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.25                   | 1.1                       | 1800                   | 1143   | 14700                                | 0.85               | R<br>RF                                                                            | 87 R57<br>87 R57 | DR<br>DR | 63L4<br>63L4 | 86        | 167                                                                                 |
|                        | 1.5                       | 1420                   | 885    | 17800                                | 1.10               |                                                                                    |                  |          |              | 93        | 167                                                                                 |
|                        | 1.7                       | 1250                   | 776    | 18700                                | 1.25               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 1.9                       | 1100                   | 685    | 19400                                | 1.40               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 2.2                       | 930                    | 599    | 20000                                | 1.65               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 2.5                       | 820                    | 525    | 20000                                | 1.90               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 2.9                       | 715                    | 456    | 20000                                | 2.2                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.9                       | 415                    | 268    | 20000                                | 3.7                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 2.3                       | 920                    | 571    | 8910                                 | 0.90               | R<br>RF                                                                            | 77 R37<br>77 R37 | DR<br>DR | 63L4<br>63L4 | 46        | 167                                                                                 |
|                        |                           |                        |        |                                      |                    |                                                                                    |                  |          |              | 52        | 167                                                                                 |
|                        | 2.3                       | 930                    | 560    | 8780                                 | 0.90               | R<br>RF                                                                            | 77 R37<br>77 R37 | DR<br>DR | 63L4<br>63L4 | 47        | 167                                                                                 |
|                        | 2.7                       | 795                    | 488    | 10100                                | 1.05               |                                                                                    |                  |          |              | 53        | 167                                                                                 |
|                        | 3.0                       | 705                    | 436    | 10900                                | 1.15               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 3.5                       | 610                    | 373    | 11500                                | 1.35               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.0                       | 535                    | 327    | 11900                                | 1.55               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.5                       | 475                    | 289    | 12200                                | 1.75               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.0                       | 425                    | 260    | 12400                                | 1.95               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.8                       | 355                    | 224    | 12600                                | 2.3                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 3.4                       | 620                    | 388    | 7290                                 | 0.95               | R<br>RF                                                                            | 67 R37<br>67 R37 | DR<br>DR | 63L4<br>63L4 | 41        | 167                                                                                 |
|                        | 3.8                       | 565                    | 344    | 7950                                 | 1.05               |                                                                                    |                  |          |              | 45        | 167                                                                                 |
|                        | 4.4                       | 465                    | 294    | 8870                                 | 1.30               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.0                       | 425                    | 261    | 9180                                 | 1.40               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.5                       | 380                    | 234    | 9460                                 | 1.60               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.5                       | 320                    | 200    | 9780                                 | 1.85               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.4                       | 280                    | 176    | 9980                                 | 2.2                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.2                       | 250                    | 158    | 10100                                | 2.4                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 3.4                       | 645                    | 384    | 6960                                 | 0.95               | R<br>RF                                                                            | 67 R37<br>67 R37 | DR<br>DR | 63L4<br>63L4 | 41        | 167                                                                                 |
|                        | 3.6                       | 600                    | 359    | 7550                                 | 1.00               |                                                                                    |                  |          |              | 44        | 167                                                                                 |
|                        | 4.2                       | 515                    | 310    | 8430                                 | 1.15               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.9                       | 435                    | 264    | 9100                                 | 1.40               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.5                       | 385                    | 235    | 9420                                 | 1.55               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.5                       | 325                    | 201    | 9750                                 | 1.85               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.2                       | 295                    | 181    | 9910                                 | 2.0                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.1                       | 520                    | 319    | 6050                                 | 0.85               | R<br>RF                                                                            | 57 R37<br>57 R37 | DR<br>DR | 63L4<br>63L4 | 35        | 167                                                                                 |
|                        | 4.8                       | 440                    | 273    | 7160                                 | 1.05               |                                                                                    |                  |          |              | 38        | 167                                                                                 |
|                        | 5.4                       | 380                    | 241    | 7380                                 | 1.20               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 6.0                       | 340                    | 215    | 7510                                 | 1.30               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.0                       | 300                    | 187    | 7630                                 | 1.50               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 7.9                       | 260                    | 164    | 7730                                 | 1.75               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 9.2                       | 225                    | 142    | 7800                                 | 2.0                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 4.0                       | 545                    | 324    | 4980                                 | 0.85               | R<br>RF                                                                            | 57 R37<br>57 R37 | DR<br>DR | 63L4<br>63L4 | 34        | 167                                                                                 |
|                        | 4.5                       | 485                    | 290    | 6950                                 | 0.95               |                                                                                    |                  |          |              | 37        | 167                                                                                 |
|                        | 5.0                       | 435                    | 262    | 7160                                 | 1.05               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.3                       | 405                    | 246    | 7280                                 | 1.10               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.9                       | 360                    | 220    | 7450                                 | 1.25               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 5.7                       | 375                    | 228    | 2440                                 | 0.80               | R<br>RF                                                                            | 47 R37<br>47 R37 | DR<br>DR | 63L4<br>63L4 | 29        | 167                                                                                 |
|                        | 6.7                       | 315                    | 195    | 5320                                 | 0.95               |                                                                                    |                  |          |              | 29        | 167                                                                                 |
|                        | 7.1                       | 295                    | 182    | 5440                                 | 1.00               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.5                       | 245                    | 154    | 5680                                 | 1.20               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 8.7                       | 250                    | 150    | 2540                                 | 0.80               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63L4<br>63L4 | 18        | 167                                                                                 |
|                        | 10                        | 210                    | 130    | 4790                                 | 0.95               |                                                                                    |                  |          |              | 19        | 167                                                                                 |
|                        | 10                        | 200                    | 124    | 4930                                 | 1.00               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 12                        | 178                    | 110    | 5200                                 | 1.10               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 14                        | 152                    | 94     | 5460                                 | 1.30               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 9.7                       | 220                    | 135    | 4660                                 | 0.90               | R<br>RF                                                                            | 37 R17<br>37 R17 | DR<br>DR | 63L4<br>63L4 | 18        | 167                                                                                 |
|                        | 10                        | 215                    | 127    | 4770                                 | 0.95               |                                                                                    |                  |          |              | 19        | 167                                                                                 |
|                        | 13                        | 174                    | 104    | 5250                                 | 1.15               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 14                        | 150                    | 90     | 5470                                 | 1.35               |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 2.4                       | 1020                   | 289.74 | 28200                                | 3.0                | R<br>RF                                                                            | 97<br>97         | DT<br>DT | 80N8<br>80N8 | 110       | 157                                                                                 |
|                        | 2.7                       | 900                    | 255.71 | 28300                                | 3.3                |                                                                                    |                  |          |              | 125       | 158                                                                                 |
|                        | 2.8                       | 850                    | 241.25 | 28400                                | 3.5                |                                                                                    |                  |          |              |           |                                                                                     |
|                        | 3.1                       | 760                    | 216.28 | 28400                                | 4.0                |                                                                                    |                  |          |              |           |                                                                                     |



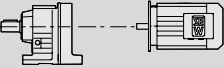
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                        |                        |                            | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|------------------------|------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------|
| <b>0.25</b>   | 2.8              | 870           | 246.54  | 20000                | 1.80      | <b>R</b><br><b>RF</b>                                                              | <b>87</b><br><b>87</b> | <b>DT</b><br><b>DT</b> | <b>80N8</b><br><b>80N8</b> | 68          | 154                                                                                 |
|               | 3.1              | 760           | 216.54  | 20000                | 2.0       |                                                                                    |                        |                        |                            | 75          | 155                                                                                 |
|               | 3.3              | 720           | 205.71  | 20000                | 2.2       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 3.7              | 640           | 181.77  | 20000                | 2.4       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 4.1              | 585           | 166.59  | 11600                | 1.40      | <b>R</b><br><b>RF</b>                                                              | <b>77</b><br><b>77</b> | <b>DT</b><br><b>DT</b> | <b>80N8</b><br><b>80N8</b> | 42          | 151                                                                                 |
|               | 4.7              | 510           | 145.67  | 12000                | 1.60      |                                                                                    |                        |                        |                            | 48          | 152                                                                                 |
|               | 4.9              | 485           | 138.39  | 12100                | 1.70      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 5.6              | 425           | 121.42  | 12400                | 1.90      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 4.5              | 530           | 195.24* | 11900                | 1.55      | <b>R</b><br><b>RF</b>                                                              | <b>77</b><br><b>77</b> | <b>DT</b><br><b>DT</b> | <b>71D6</b><br><b>71D6</b> | 38          | 151                                                                                 |
|               | 5.3              | 450           | 166.59  | 12300                | 1.80      |                                                                                    |                        |                        |                            | 44          | 152                                                                                 |
|               | 6.0              | 395           | 145.67  | 12500                | 2.1       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 6.7              | 360           | 195.24* | 12600                | 2.3       | <b>R</b><br><b>RF</b>                                                              | <b>77</b><br><b>77</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 38          | 151                                                                                 |
|               | 7.8              | 305           | 166.59  | 12800                | 2.7       |                                                                                    |                        |                        |                            | 43          | 152                                                                                 |
|               | 8.9              | 270           | 145.67  | 12900                | 3.1       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 9.4              | 255           | 138.39  | 12900                | 3.2       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 11               | 225           | 121.42  | 13000                | 3.7       | <b>R</b><br><b>RF</b>                                                              | <b>67</b><br><b>67</b> | <b>DT</b><br><b>DT</b> | <b>80N8</b><br><b>80N8</b> | 35          | 148                                                                                 |
|               | 4.3              | 555           | 158.14  | 8060                 | 1.10      |                                                                                    |                        |                        |                            | 38          | 149                                                                                 |
|               | 4.9              | 485           | 137.67  | 8730                 | 1.25      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 5.3              | 455           | 128.97  | 8970                 | 1.35      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 6.0              | 400           | 113.94  | 9340                 | 1.50      | <b>R</b><br><b>RF</b>                                                              | <b>67</b><br><b>67</b> | <b>DT</b><br><b>DT</b> | <b>71D6</b><br><b>71D6</b> | 32          | 148                                                                                 |
|               | 4.4              | 540           | 199.81  | 8190                 | 1.10      |                                                                                    |                        |                        |                            | 35          | 149                                                                                 |
|               | 4.8              | 500           | 184.07  | 8590                 | 1.20      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 5.6              | 430           | 158.14  | 9140                 | 1.40      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 6.4              | 375           | 137.67  | 9500                 | 1.60      | <b>R</b><br><b>RF</b>                                                              | <b>67</b><br><b>67</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 31          | 148                                                                                 |
|               | 6.8              | 350           | 128.97  | 9630                 | 1.70      |                                                                                    |                        |                        |                            | 34          | 149                                                                                 |
|               | 7.7              | 310           | 113.94  | 9840                 | 1.95      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 8.3              | 285           | 105.83  | 9940                 | 2.1       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 6.5              | 365           | 199.81  | 9540                 | 1.65      | <b>R</b><br><b>RF</b>                                                              | <b>67</b><br><b>67</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 31          | 148                                                                                 |
|               | 7.1              | 340           | 184.07  | 9700                 | 1.80      |                                                                                    |                        |                        |                            | 34          | 149                                                                                 |
|               | 8.2              | 290           | 158.14  | 9930                 | 2.1       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 9.4              | 255           | 137.67  | 10100                | 2.4       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 10               | 235           | 128.97  | 10100                | 2.5       | <b>R</b><br><b>RF</b>                                                              | <b>57</b><br><b>57</b> | <b>DT</b><br><b>DT</b> | <b>71D6</b><br><b>71D6</b> | 25          | 145                                                                                 |
|               | 11               | 210           | 113.94  | 10200                | 2.9       |                                                                                    |                        |                        |                            | 29          | 146                                                                                 |
|               | 12               | 194           | 105.83  | 10300                | 3.1       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 14               | 176           | 95.91   | 10300                | 3.4       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 15               | 158           | 86.11   | 10400                | 3.8       | <b>R</b><br><b>RF</b>                                                              | <b>57</b><br><b>57</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 24          | 145                                                                                 |
|               | 4.7              | 505           | 186.89  | 6450                 | 0.90      |                                                                                    |                        |                        |                            | 27          | 146                                                                                 |
|               | 5.1              | 465           | 172.17  | 7030                 | 0.95      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 6.0              | 400           | 147.92  | 7300                 | 1.10      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 6.8              | 350           | 128.77  | 7480                 | 1.30      | <b>R</b><br><b>RF</b>                                                              | <b>57</b><br><b>57</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 24          | 145                                                                                 |
|               | 7.3              | 325           | 120.63  | 7550                 | 1.35      |                                                                                    |                        |                        |                            | 27          | 146                                                                                 |
|               | 8.3              | 290           | 106.58  | 7660                 | 1.55      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 8.9              | 270           | 98.99   | 7710                 | 1.70      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 7.0              | 345           | 186.89  | 7500                 | 1.30      | <b>R</b><br><b>RF</b>                                                              | <b>57</b><br><b>57</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 24          | 145                                                                                 |
|               | 7.5              | 315           | 172.17  | 7590                 | 1.40      |                                                                                    |                        |                        |                            | 27          | 146                                                                                 |
|               | 8.8              | 270           | 147.92  | 7700                 | 1.65      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 10               | 235           | 128.77  | 7780                 | 1.90      |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 11               | 220           | 120.63  | 7810                 | 2.0       | <b>R</b><br><b>RF</b>                                                              | <b>57</b><br><b>57</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 24          | 145                                                                                 |
|               | 12               | 196           | 106.58  | 7860                 | 2.3       |                                                                                    |                        |                        |                            | 27          | 146                                                                                 |
|               | 13               | 182           | 98.99   | 7880                 | 2.5       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 14               | 165           | 89.71   | 7910                 | 2.7       |                                                                                    |                        |                        |                            |             |                                                                                     |
|               | 16               | 148           | 80.55   | 7930                 | 3.0       | <b>R</b><br><b>RF</b>                                                              | <b>57</b><br><b>57</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 24          | 145                                                                                 |
|               | 19               | 127           | 69.23   | 7960                 | 3.5       |                                                                                    |                        |                        |                            | 27          | 146                                                                                 |

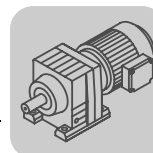


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|------------|-------------------------------------------------------------------------------------|
| 0.25                   | 7.4                       | 325                    | 176.88 | 5280                                 | 0.90               | R<br>RF                                                                            | 47<br>47 | DR<br>DR | 63L4<br>63L4 | 19<br>19   | 142<br>143                                                                          |
|                        | 8.0                       | 300                    | 162.94 | 5420                                 | 1.00               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 9.3                       | 255                    | 139.99 | 5630                                 | 1.15               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 11                        | 225                    | 121.87 | 5770                                 | 1.35               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 11                        | 210                    | 114.17 | 5820                                 | 1.45               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 13                        | 185                    | 100.86 | 5900                                 | 1.60               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 14                        | 172                    | 93.68  | 5940                                 | 1.75               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 15                        | 156                    | 84.90  | 5980                                 | 1.90               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 17                        | 140                    | 76.23  | 6020                                 | 2.1                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 19                        | 126                    | 68.54  | 6050                                 | 2.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 20                        | 118                    | 64.21  | 6070                                 | 2.5                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 23                        | 104                    | 56.73  | 6090                                 | 2.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 25                        | 97                     | 52.69  | 6100                                 | 3.1                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 27                        | 88                     | 47.75  | 6080                                 | 3.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 9.6                       | 250                    | 134.82 | 2630                                 | 0.80               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 11                        | 225                    | 123.66 | 4560                                 | 0.90               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 12                        | 193                    | 105.28 | 5030                                 | 1.05               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 14                        | 167                    | 90.77  | 5320                                 | 1.20               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 15                        | 155                    | 84.61  | 5420                                 | 1.30               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 18                        | 136                    | 73.96  | 5590                                 | 1.45               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 19                        | 127                    | 69.33  | 5650                                 | 1.55               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 21                        | 112                    | 61.18  | 5750                                 | 1.80               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 23                        | 102                    | 55.76  | 5800                                 | 1.95               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 27                        | 88                     | 48.08  | 5870                                 | 2.3                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 29                        | 82                     | 44.81  | 5760                                 | 2.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 33                        | 72                     | 39.17  | 5540                                 | 2.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 35                        | 67                     | 36.72  | 5430                                 | 3.0                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 40                        | 60                     | 32.40  | 5230                                 | 3.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 15                        | 156                    | 84.78  | 4100                                 | 0.85               | R<br>RF                                                                            | 27<br>27 | DR<br>DR | 63L4<br>63L4 | 9.0<br>8.9 | 136<br>137                                                                          |
|                        | 18                        | 136                    | 74.11  | 4210                                 | 0.95               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 19                        | 128                    | 69.47  | 4250                                 | 1.00               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 21                        | 113                    | 61.30  | 4190                                 | 1.15               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 23                        | 103                    | 55.87  | 4090                                 | 1.25               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 27                        | 89                     | 48.17  | 3940                                 | 1.45               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 29                        | 83                     | 44.90  | 3870                                 | 1.60               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 33                        | 72                     | 39.25  | 3730                                 | 1.80               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 35                        | 68                     | 36.79  | 3670                                 | 1.90               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 40                        | 60                     | 32.47  | 3540                                 | 2.2                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 45                        | 53                     | 28.78  | 3420                                 | 2.5                | R<br>RF                                                                            | 27<br>27 | DR<br>DR | 63L4<br>63L4 | 8.7<br>8.6 | 136<br>137                                                                          |
|                        | 53                        | 45                     | 24.47  | 3270                                 | 2.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 46                        | 52                     | 28.37  | 3410                                 | 2.5                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 50                        | 48                     | 26.09  | 3330                                 | 2.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 58                        | 41                     | 22.32  | 3180                                 | 3.2                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 67                        | 36                     | 19.35  | 3050                                 | 3.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 72                        | 33                     | 18.08  | 2990                                 | 3.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 83                        | 29                     | 15.63  | 2860                                 | 4.5                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 98                        | 24                     | 13.28* | 2730                                 | 5.3                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 110                       | 22                     | 11.86  | 2630                                 | 5.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 128                       | 19                     | 10.13  | 2510                                 | 6.6                | R<br>RF                                                                            | 27<br>27 | DR<br>DR | 63L4<br>63L4 | 8.3<br>8.2 | 133<br>134                                                                          |
|                        | 138                       | 17                     | 9.41   | 2440                                 | 7.1                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 159                       | 15                     | 8.16   | 2330                                 | 7.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 170                       | 14                     | 7.63*  | 2290                                 | 8.0                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 197                       | 12                     | 6.59   | 2180                                 | 8.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 232                       | 10                     | 5.60*  | 2080                                 | 9.6                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 260                       | 9.2                    | 5.00*  | 2000                                 | 10                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 304                       | 7.8                    | 4.27   | 1910                                 | 11                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 325                       | 7.3                    | 4.00*  | 1870                                 | 12                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 386                       | 6.2                    | 3.37   | 1770                                 | 13                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 23                        | 105                    | 57.35  | 156                                  | 0.80               | R<br>RF                                                                            | 17<br>17 | DR<br>DR | 63L4<br>63L4 | 8.3<br>8.2 | 133<br>134                                                                          |
|                        | 24                        | 99                     | 53.76  | 785                                  | 0.85               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 27                        | 87                     | 47.44  | 1630                                 | 1.00               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 29                        | 81                     | 44.18  | 2000                                 | 1.05               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 34                        | 71                     | 38.61  | 2200                                 | 1.20               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 36                        | 67                     | 36.20  | 2180                                 | 1.30               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 41                        | 59                     | 31.94  | 2130                                 | 1.45               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 46                        | 52                     | 28.32  | 2070                                 | 1.65               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 54                        | 44                     | 24.07  | 2000                                 | 1.90               |                                                                                    |          |          |              |            |                                                                                     |

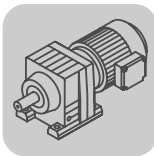


# R..DR/DT/DV R..D.. [kW]

| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|------------|-------------------------------------------------------------------------------------|
| 0.25                   | 52                        | 46                     | 25.23 | 2020                                 | 1.85               | R<br>RF                                                                            | 17<br>17 | DR<br>DR | 63L4<br>63L4 | 8.0<br>7.9 | 133<br>134                                                                          |
|                        | 56                        | 43                     | 23.15 | 1980                                 | 2.0                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 66                        | 36                     | 19.71 | 1910                                 | 2.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 77                        | 31                     | 16.99 | 1840                                 | 2.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 82                        | 29                     | 15.84 | 1810                                 | 2.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 94                        | 25                     | 13.84 | 1750                                 | 3.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 100                       | 24                     | 12.98 | 1720                                 | 3.6                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 114                       | 21                     | 11.45 | 1660                                 | 3.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 38                        | 63                     | 34.05 | 1090                                 | 0.80               | R<br>RF                                                                            | 07<br>07 | DR<br>DR | 63L4<br>63L4 | 7.2<br>7.2 | 130<br>131                                                                          |
|                        | 45                        | 53                     | 29.08 | 1200                                 | 0.95               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 48                        | 50                     | 26.97 | 1190                                 | 1.00               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 56                        | 43                     | 23.32 | 1170                                 | 1.15               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 60                        | 40                     | 21.73 | 1160                                 | 1.25               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 71                        | 34                     | 18.31 | 1120                                 | 1.50               | R<br>RF                                                                            | 07<br>07 | DR<br>DR | 63L4<br>63L4 | 7.0<br>7.0 | 130<br>131                                                                          |
|                        | 78                        | 31                     | 16.73 | 1100                                 | 1.65               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 92                        | 26                     | 14.12 | 1070                                 | 1.95               |                                                                                    |          |          |              |            |                                                                                     |
|                        | 108                       | 22                     | 12.06 | 1030                                 | 2.3                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 116                       | 21                     | 11.18 | 1010                                 | 2.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 134                       | 18                     | 9.67  | 980                                  | 2.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 144                       | 17                     | 9.01  | 960                                  | 3.0                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 166                       | 14                     | 7.85  | 930                                  | 3.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 174                       | 14                     | 7.48  | 920                                  | 3.1                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 190                       | 13                     | 6.83  | 900                                  | 3.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 226                       | 11                     | 5.76  | 860                                  | 3.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 264                       | 9.0                    | 4.92  | 820                                  | 4.1                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 285                       | 8.4                    | 4.57  | 800                                  | 4.3                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 329                       | 7.3                    | 3.95  | 770                                  | 4.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 353                       | 6.8                    | 3.68  | 755                                  | 4.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 405                       | 5.9                    | 3.21  | 725                                  | 5.3                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 238                       | 10                     | 11.18 | 840                                  | 5.0                | R<br>RF                                                                            | 07<br>07 | DR<br>DR | 63M2<br>63M2 | 6.3<br>6.3 | 130<br>131                                                                          |
|                        | 275                       | 8.7                    | 9.67  | 810                                  | 5.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 295                       | 8.1                    | 9.01  | 795                                  | 6.2                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 339                       | 7.0                    | 7.85  | 765                                  | 7.0                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 356                       | 6.7                    | 7.48  | 755                                  | 6.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 389                       | 6.1                    | 6.83  | 735                                  | 7.1                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 461                       | 5.2                    | 5.76  | 700                                  | 7.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 540                       | 4.4                    | 4.92  | 665                                  | 8.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 583                       | 4.1                    | 4.57  | 650                                  | 8.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 674                       | 3.5                    | 3.95  | 625                                  | 9.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 723                       | 3.3                    | 3.68  | 610                                  | 10                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 829                       | 2.9                    | 3.21  | 585                                  | 11                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 145                       | 17                     | 6.07  | 4890                                 | 2.6                | RX<br>RXF                                                                          | 67<br>67 | DT<br>DT | 71D6<br>71D6 | 19<br>23   | 120<br>121                                                                          |
|                        | 170                       | 14                     | 5.18  | 4650                                 | 5.4                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 194                       | 12                     | 4.53  | 4450                                 | 6.7                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 205                       | 12                     | 4.30* | 4380                                 | 6.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 214                       | 11                     | 6.07  | 4310                                 | 3.9                | RX<br>RXF                                                                          | 67<br>67 | DR<br>DR | 63L4<br>63L4 | 17<br>21   | 120<br>121                                                                          |
|                        | 251                       | 9.5                    | 5.18  | 4100                                 | 7.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 287                       | 8.3                    | 4.53  | 3920                                 | 9.9                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 302                       | 7.9                    | 4.30* | 3860                                 | 10                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 345                       | 6.9                    | 3.77  | 3700                                 | 13                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 406                       | 5.9                    | 3.20* | 3500                                 | 17                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 450                       | 5.3                    | 2.89  | 3390                                 | 20                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 511                       | 4.7                    | 2.54  | 3250                                 | 25                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 542                       | 4.4                    | 2.40* | 3190                                 | 28                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 636                       | 3.8                    | 2.04  | 3020                                 | 35                 |                                                                                    |          |          |              |            |                                                                                     |
|                        | 160                       | 15                     | 5.50* | 3840                                 | 2.6                | RX<br>RXF                                                                          | 57<br>57 | DT<br>DT | 71D6<br>71D6 | 16<br>18   | 118<br>119                                                                          |
|                        | 174                       | 14                     | 5.07  | 3740                                 | 2.6                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 202                       | 12                     | 4.35  | 3560                                 | 5.8                |                                                                                    |          |          |              |            |                                                                                     |
|                        | 232                       | 10                     | 3.79  | 3410                                 | 6.7                |                                                                                    |          |          |              |            |                                                                                     |

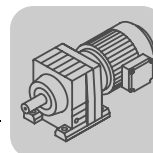


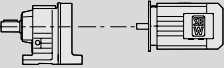
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$   | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                    |          |              | $m$<br>[kg] |  |
|---------------|------------------|---------------|-------|----------------------|-----------|------------------------------------------------------------------------------------|--------------------|----------|--------------|-------------|-------------------------------------------------------------------------------------|
| 0.25          | 236              | 10            | 5.50* | 3390                 | 3.9       | RX<br>RXF                                                                          | 57<br>57           | DR<br>DR | 63L4<br>63L4 | 14<br>16    | 118<br>119                                                                          |
|               | 257              | 9.3           | 5.07  | 3300                 | 3.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 299              | 8.0           | 4.35  | 3150                 | 8.5       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 343              | 7.0           | 3.79  | 3010                 | 9.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 366              | 6.5           | 3.55* | 2950                 | 11        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 414              | 5.8           | 3.14  | 2830                 | 11        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 446              | 5.3           | 2.91  | 2760                 | 13        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 492              | 4.8           | 2.64* | 2680                 | 14        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 548              | 4.4           | 2.37  | 2580                 | 16        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 637              | 3.7           | 2.04  | 2460                 | 19        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 677              | 3.5           | 1.92* | 2410                 | 20        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 787              | 3.0           | 1.65  | 2300                 | 23        |                                                                                    |                    |          |              |             |                                                                                     |
| 0.37          | 0.19             | 15900         | 7307  | 37500                | 0.80      | R<br>RF                                                                            | 147 R77<br>147 R77 | DT<br>DT | 71D4<br>71D4 | 420<br>430  | 167<br>167                                                                          |
|               | 0.21             | 14100         | 6447  | 60400                | 0.90      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.25             | 12100         | 5568  | 64300                | 1.05      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.28             | 10900         | 4926  | 66400                | 1.20      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.32             | 9480          | 4325  | 68500                | 1.35      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.37             | 8310          | 3754  | 70000                | 1.55      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.42             | 7240          | 3302  | 71100                | 1.80      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.48             | 6320          | 2898  | 71900                | 2.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.31             | 9740          | 4464  | 39400                | 0.80      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.35             | 8570          | 3928  | 51500                | 0.95      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.34             | 9080          | 4018  | 49200                | 0.90      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.39             | 7940          | 3514  | 53500                | 1.00      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.41             | 7540          | 3338  | 54300                | 1.05      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.47             | 6620          | 2929  | 56000                | 1.20      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.56             | 5600          | 2484  | 57600                | 1.45      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.62             | 5030          | 2242  | 58400                | 1.60      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.52             | 6000          | 2658  | 57000                | 1.35      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.57             | 5440          | 2412  | 57800                | 1.45      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.67             | 4680          | 2073  | 58800                | 1.70      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.75             | 4060          | 1839  | 59400                | 1.95      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.99             | 3130          | 1397  | 60200                | 2.6       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.1              | 2720          | 1226  | 60500                | 2.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.3              | 2440          | 1090  | 60700                | 3.3       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.4              | 2130          | 951   | 60900                | 3.8       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.67             | 4660          | 2067  | 27300                | 0.90      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.82             | 3790          | 1693  | 31900                | 1.15      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.89             | 3420          | 1550  | 33500                | 1.25      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.98             | 3110          | 1407  | 34600                | 1.40      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.1              | 2670          | 1209  | 35900                | 1.60      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.3              | 2330          | 1055  | 36400                | 1.85      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.69             | 4450          | 1987  | 28600                | 0.95      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.76             | 4030          | 1827  | 30800                | 1.05      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.86             | 3490          | 1599  | 33200                | 1.25      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.99             | 3090          | 1400  | 34600                | 1.40      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.1              | 2670          | 1226  | 35900                | 1.60      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.5              | 2070          | 939   | 36700                | 2.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.7              | 1790          | 822   | 37000                | 2.4       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.1              | 2760          | 1207  | 22500                | 1.10      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.3              | 2470          | 1084  | 24300                | 1.20      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.99             | 3180          | 1396  | 10800                | 0.95      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.1              | 2780          | 1228  | 22500                | 1.10      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.3              | 2480          | 1069  | 24200                | 1.20      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.5              | 2160          | 938   | 25700                | 1.40      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.7              | 1860          | 824   | 26900                | 1.60      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.9              | 1670          | 737   | 27400                | 1.80      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 2.2              | 1430          | 632   | 27700                | 2.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 3.2              | 980           | 431   | 28200                | 3.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 3.6              | 860           | 379   | 28300                | 3.5       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 4.1              | 765           | 336   | 28400                | 3.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.7              | 1810          | 802   | 13800                | 0.85      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.8              | 1700          | 754   | 15800                | 0.90      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 2.1              | 1450          | 649   | 17600                | 1.05      |                                                                                    |                    |          |              |             |                                                                                     |

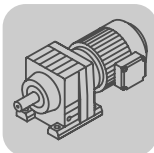


# R..DR/DT/DV R..D.. [kW]

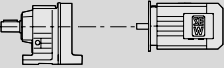
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |         |                  |          |              | m<br>[kg]  |            |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|---------|------------------|----------|--------------|------------|------------|
| 0.37                   | 1.8                       | 1780                   | 776     | 15100                                | 0.85               | R<br>RF | 87 R57<br>87 R57 | DT<br>DT | 71D4<br>71D4 | 87<br>95   | 167<br>167 |
|                        | 2.0                       | 1570                   | 685     | 16800                                | 1.00               |         |                  |          |              |            |            |
|                        | 2.3                       | 1340                   | 599     | 18300                                | 1.15               |         |                  |          |              |            |            |
|                        | 2.6                       | 1170                   | 525     | 19100                                | 1.30               |         |                  |          |              |            |            |
|                        | 3.0                       | 1030                   | 456     | 19700                                | 1.50               |         |                  |          |              |            |            |
|                        | 5.2                       | 595                    | 268     | 20000                                | 2.6                |         |                  |          |              |            |            |
|                        | 5.9                       | 525                    | 236     | 20000                                | 2.9                | R<br>RF | 87 R57<br>87 R57 | DT<br>DT | 71D4<br>71D4 | 86<br>93   | 167<br>167 |
|                        | 2.6                       | 1260                   | 538     | 18700                                | 1.25               |         |                  |          |              |            |            |
|                        | 2.9                       | 1100                   | 472     | 19400                                | 1.40               |         |                  |          |              |            |            |
|                        | 3.5                       | 930                    | 400     | 20000                                | 1.65               |         |                  |          |              |            |            |
|                        | 3.8                       | 830                    | 361     | 20000                                | 1.85               |         |                  |          |              |            |            |
|                        | 3.7                       | 860                    | 373     | 9520                                 | 0.95               | R<br>RF | 77 R37<br>77 R37 | DT<br>DT | 71D4<br>71D4 | 48<br>53   | 167<br>167 |
|                        | 4.2                       | 755                    | 327     | 10500                                | 1.10               |         |                  |          |              |            |            |
|                        | 4.8                       | 670                    | 289     | 11100                                | 1.20               |         |                  |          |              |            |            |
|                        | 5.3                       | 600                    | 260     | 11600                                | 1.35               |         |                  |          |              |            |            |
|                        | 6.2                       | 510                    | 224     | 12000                                | 1.60               |         |                  |          |              |            |            |
|                        | 7.0                       | 445                    | 197     | 12300                                | 1.85               |         |                  |          |              |            |            |
|                        | 8.2                       | 390                    | 169     | 12500                                | 2.1                | R<br>RF | 67 R37<br>67 R37 | DT<br>DT | 71D4<br>71D4 | 42<br>45   | 167<br>167 |
|                        | 9.3                       | 340                    | 149     | 12700                                | 2.4                |         |                  |          |              |            |            |
|                        | 4.7                       | 665                    | 294     | 4670                                 | 0.90               |         |                  |          |              |            |            |
|                        | 5.3                       | 600                    | 261     | 7550                                 | 1.00               |         |                  |          |              |            |            |
|                        | 5.9                       | 540                    | 234     | 8220                                 | 1.10               |         |                  |          |              |            |            |
|                        | 6.9                       | 460                    | 200     | 8930                                 | 1.30               |         |                  |          |              |            |            |
|                        | 2.7                       | 1330                   | 255.71  | 27900                                | 2.3                | R<br>RF | 97<br>97         | DT<br>DT | 90S8<br>90S8 | 115<br>130 | 157<br>158 |
|                        | 2.8                       | 1250                   | 241.25  | 28000                                | 2.4                |         |                  |          |              |            |            |
|                        | 3.1                       | 1120                   | 216.28  | 28100                                | 2.7                |         |                  |          |              |            |            |
|                        | 3.6                       | 970                    | 186.30  | 28300                                | 3.1                |         |                  |          |              |            |            |
|                        | 3.1                       | 1140                   | 289.74  | 28100                                | 2.6                | R<br>RF | 97<br>97         | DT<br>DT | 80K6<br>80K6 | 105<br>125 | 157<br>158 |
|                        | 3.5                       | 1000                   | 255.71  | 28200                                | 3.0                |         |                  |          |              |            |            |
|                        | 3.7                       | 950                    | 241.25  | 28300                                | 3.2                |         |                  |          |              |            |            |
|                        | 4.2                       | 850                    | 216.28  | 28400                                | 3.5                |         |                  |          |              |            |            |
|                        | 3.1                       | 1130                   | 216.54  | 19300                                | 1.40               | R<br>RF | 87<br>87         | DT<br>DT | 90S8<br>90S8 | 73<br>80   | 154<br>155 |
|                        | 3.3                       | 1070                   | 205.71  | 19600                                | 1.45               |         |                  |          |              |            |            |
|                        | 3.7                       | 940                    | 181.77  | 20000                                | 1.65               |         |                  |          |              |            |            |
|                        | 3.6                       | 970                    | 246.54  | 20000                                | 1.60               | R<br>RF | 87<br>87         | DT<br>DT | 80K6<br>80K6 | 66<br>73   | 154<br>155 |
|                        | 4.2                       | 850                    | 216.54  | 20000                                | 1.80               |         |                  |          |              |            |            |
|                        | 4.4                       | 810                    | 205.71  | 20000                                | 1.90               |         |                  |          |              |            |            |
|                        | 5.0                       | 715                    | 181.77  | 20000                                | 2.2                |         |                  |          |              |            |            |
|                        | 5.8                       | 610                    | 155.34  | 20000                                | 2.5                |         |                  |          |              |            |            |
|                        | 6.3                       | 560                    | 142.41  | 20000                                | 2.8                |         |                  |          |              |            |            |
|                        | 4.7                       | 755                    | 145.67  | 10500                                | 1.10               | R<br>RF | 77<br>77         | DT<br>DT | 90S8<br>90S8 | 47<br>53   | 151<br>152 |
|                        | 4.9                       | 720                    | 138.39  | 10800                                | 1.15               |         |                  |          |              |            |            |
|                        | 5.6                       | 630                    | 121.42  | 11400                                | 1.30               |         |                  |          |              |            |            |
|                        | 5.4                       | 655                    | 166.59  | 11200                                | 1.25               | R<br>RF | 77<br>77         | DT<br>DT | 80K6<br>80K6 | 40<br>46   | 151<br>152 |
|                        | 6.2                       | 570                    | 145.67  | 11700                                | 1.45               |         |                  |          |              |            |            |
|                        | 6.5                       | 545                    | 138.39  | 11900                                | 1.50               |         |                  |          |              |            |            |
|                        | 7.1                       | 500                    | 195.24* | 12100                                | 1.65               | R<br>RF | 77<br>77         | DT<br>DT | 71D4<br>71D4 | 38<br>44   | 151<br>152 |
|                        | 8.3                       | 425                    | 166.59  | 12400                                | 1.90               |         |                  |          |              |            |            |
|                        | 9.5                       | 375                    | 145.67  | 12600                                | 2.2                |         |                  |          |              |            |            |
|                        | 10                        | 355                    | 138.39  | 12600                                | 2.3                |         |                  |          |              |            |            |
|                        | 11                        | 310                    | 121.42  | 12800                                | 2.6                |         |                  |          |              |            |            |
|                        | 13                        | 265                    | 102.99  | 12900                                | 3.1                |         |                  |          |              |            |            |
|                        | 15                        | 240                    | 92.97   | 12900                                | 3.5                |         |                  |          |              |            |            |
|                        | 5.7                       | 620                    | 158.14  | 7300                                 | 0.95               | R<br>RF | 67<br>67         | DT<br>DT | 80K6<br>80K6 | 34<br>37   | 148<br>149 |
|                        | 6.5                       | 540                    | 137.67  | 8210                                 | 1.10               |         |                  |          |              |            |            |
|                        | 7.0                       | 505                    | 128.97  | 8530                                 | 1.20               |         |                  |          |              |            |            |
|                        | 7.9                       | 445                    | 113.94  | 9010                                 | 1.35               |         |                  |          |              |            |            |

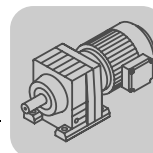


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.37                   | 6.9                       | 510                    | 199.81 | 8480                                 | 1.15               | R<br>RF                                                                            | 67<br>67 | DT<br>DT | 71D4<br>71D4 | 32        | 148                                                                                 |
|                        | 7.5                       | 470                    | 184.07 | 8820                                 | 1.25               |                                                                                    |          |          |              | 35        | 149                                                                                 |
|                        | 8.7                       | 405                    | 158.14 | 9310                                 | 1.50               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 10                        | 355                    | 137.67 | 9620                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 330                    | 128.97 | 9740                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 12                        | 290                    | 113.94 | 9920                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 270                    | 105.83 | 10000                                | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 14                        | 245                    | 95.91  | 10100                                | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 16                        | 220                    | 86.11  | 10200                                | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 19                        | 190                    | 74.17  | 10300                                | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 179                    | 69.75  | 10300                                | 3.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 23                        | 157                    | 61.26  | 10400                                | 3.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 146                    | 56.89  | 10400                                | 4.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 7.0                       | 505                    | 128.77 | 6510                                 | 0.90               | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 80K6<br>80K6 | 27        | 145                                                                                 |
|                        | 7.5                       | 475                    | 120.63 | 7000                                 | 0.95               |                                                                                    |          |          |              | 31        | 146                                                                                 |
|                        | 8.4                       | 420                    | 106.58 | 7240                                 | 1.10               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 9.1                       | 390                    | 98.99  | 7350                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 7.4                       | 480                    | 186.89 | 6980                                 | 0.95               | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 71D4<br>71D4 | 25        | 145                                                                                 |
|                        | 8.0                       | 440                    | 172.17 | 7140                                 | 1.00               |                                                                                    |          |          |              | 29        | 146                                                                                 |
|                        | 9.3                       | 380                    | 147.92 | 7390                                 | 1.20               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 330                    | 128.77 | 7550                                 | 1.35               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 310                    | 120.63 | 7610                                 | 1.45               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 275                    | 106.58 | 7700                                 | 1.65               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 14                        | 255                    | 98.99  | 7750                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 15                        | 230                    | 89.71  | 7800                                 | 1.95               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 17                        | 205                    | 80.55  | 7840                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 177                    | 69.23  | 7890                                 | 2.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 21                        | 166                    | 64.85  | 7910                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 147                    | 57.29  | 7760                                 | 3.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 26                        | 136                    | 53.22  | 7600                                 | 3.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 29                        | 124                    | 48.23  | 7380                                 | 3.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 9.9                       | 360                    | 139.99 | 3490                                 | 0.85               | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 71D4<br>71D4 | 20        | 142                                                                                 |
|                        | 11                        | 310                    | 121.87 | 5350                                 | 0.95               |                                                                                    |          |          |              | 20        | 143                                                                                 |
|                        | 12                        | 290                    | 114.17 | 5460                                 | 1.05               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 14                        | 260                    | 100.86 | 5630                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 15                        | 240                    | 93.68  | 5700                                 | 1.25               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 16                        | 215                    | 84.90  | 5790                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 18                        | 195                    | 76.23  | 5870                                 | 1.55               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 176                    | 68.54  | 5930                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 21                        | 164                    | 64.21  | 5960                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 145                    | 56.73  | 6010                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 26                        | 135                    | 52.69  | 5990                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 29                        | 122                    | 47.75  | 5820                                 | 2.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 32                        | 110                    | 42.87  | 5650                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 37                        | 95                     | 36.93  | 5410                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 40                        | 89                     | 34.73  | 5310                                 | 3.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 41                        | 87                     | 33.79  | 5270                                 | 2.8                | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 71D4<br>71D4 | 20        | 142                                                                                 |
|                        | 44                        | 80                     | 31.12  | 5150                                 | 2.8                |                                                                                    |          |          |              | 20        | 143                                                                                 |
|                        | 52                        | 69                     | 26.74  | 4920                                 | 4.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 59                        | 60                     | 23.28  | 4720                                 | 5.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 63                        | 56                     | 21.81  | 4620                                 | 5.4                | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 71D4<br>71D4 | 16        | 139                                                                                 |
|                        | 15                        | 230                    | 90.77  | 4250                                 | 0.85               |                                                                                    |          |          |              | 17        | 140                                                                                 |
|                        | 16                        | 215                    | 84.61  | 4720                                 | 0.90               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 19                        | 189                    | 73.96  | 5070                                 | 1.05               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 178                    | 69.33  | 5210                                 | 1.15               | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 71D4<br>71D4 | 16        | 139                                                                                 |
|                        | 23                        | 157                    | 61.18  | 5410                                 | 1.30               |                                                                                    |          |          |              | 17        | 140                                                                                 |
|                        | 25                        | 143                    | 55.76  | 5530                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 29                        | 123                    | 48.08  | 5590                                 | 1.60               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 31                        | 115                    | 44.81  | 5480                                 | 1.75               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 35                        | 100                    | 39.17  | 5290                                 | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 38                        | 94                     | 36.72  | 5190                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 43                        | 83                     | 32.40  | 5010                                 | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 48                        | 74                     | 28.73  | 4850                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 57                        | 63                     | 24.42  | 4620                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |

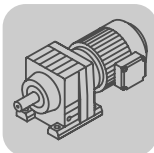


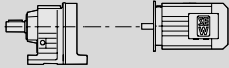
# R..DR/DT/DV R..D.. [kW]

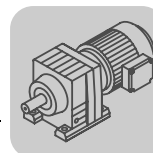
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.37                   | 49                        | 73                     | 28.32  | 4830                                 | 2.8                | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 71D4<br>71D4 | 16        | 139                                                                                 |
|                        | 53                        | 67                     | 26.03  | 4710                                 | 2.8                |                                                                                    |          |          |              | 17        | 140                                                                                 |
|                        | 62                        | 57                     | 22.27  | 4500                                 | 3.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 71                        | 49                     | 19.31  | 4320                                 | 4.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 76                        | 46                     | 18.05  | 4230                                 | 4.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 88                        | 40                     | 15.60  | 4050                                 | 5.0                | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 71D4<br>71D4 | 16        | 139                                                                                 |
|                        | 104                       | 34                     | 13.25  | 3850                                 | 5.6                |                                                                                    |          |          |              | 17        | 140                                                                                 |
|                        | 117                       | 30                     | 11.83  | 3720                                 | 6.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        |                           |                        |        |                                      |                    |                                                                                    |          |          |              |           |                                                                                     |
|                        | 23                        | 157                    | 61.30  | 3870                                 | 0.85               | R<br>RF                                                                            | 27<br>27 | DT<br>DT | 71D4<br>71D4 | 9.9       | 136                                                                                 |
|                        | 25                        | 143                    | 55.87  | 3800                                 | 0.90               |                                                                                    |          |          |              | 9.8       | 137                                                                                 |
|                        | 29                        | 123                    | 48.17  | 3680                                 | 1.05               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 31                        | 115                    | 44.90  | 3620                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 35                        | 101                    | 39.25  | 3510                                 | 1.30               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 38                        | 94                     | 36.79  | 3460                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 43                        | 83                     | 32.47  | 3350                                 | 1.55               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 48                        | 74                     | 28.78  | 3250                                 | 1.75               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 56                        | 63                     | 24.47  | 3110                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 49                        | 73                     | 28.37  | 3240                                 | 1.80               | R<br>RF                                                                            | 27<br>27 | DT<br>DT | 71D4<br>71D4 | 9.6       | 136                                                                                 |
|                        | 53                        | 67                     | 26.09  | 3170                                 | 1.95               |                                                                                    |          |          |              | 9.6       | 137                                                                                 |
|                        | 62                        | 57                     | 22.32  | 3040                                 | 2.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 71                        | 50                     | 19.35  | 2920                                 | 2.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 76                        | 46                     | 18.08  | 2860                                 | 2.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 88                        | 40                     | 15.63  | 2750                                 | 3.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 104                       | 34                     | 13.28* | 2620                                 | 3.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 36                        | 99                     | 38.61  | 770                                  | 0.85               | R<br>RF                                                                            | 17<br>17 | DT<br>DT | 71D4<br>71D4 | 9.2       | 133                                                                                 |
|                        | 38                        | 93                     | 36.20  | 1260                                 | 0.90               |                                                                                    |          |          |              | 9.1       | 134                                                                                 |
|                        | 43                        | 82                     | 31.94  | 1910                                 | 1.05               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 49                        | 73                     | 28.32  | 1880                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 57                        | 62                     | 24.07  | 1830                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 55                        | 65                     | 25.23  | 1840                                 | 1.30               | R<br>RF                                                                            | 17<br>17 | DT<br>DT | 71D4<br>71D4 | 8.9       | 133                                                                                 |
|                        | 60                        | 59                     | 23.15  | 1820                                 | 1.45               |                                                                                    |          |          |              | 8.8       | 134                                                                                 |
|                        | 70                        | 51                     | 19.71  | 1760                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 81                        | 44                     | 16.99  | 1710                                 | 1.95               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 87                        | 41                     | 15.84  | 1680                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 100                       | 35                     | 13.84  | 1630                                 | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 106                       | 33                     | 12.98  | 1610                                 | 2.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 121                       | 29                     | 11.45  | 1560                                 | 2.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 136                       | 26                     | 10.15  | 1520                                 | 3.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 160                       | 22                     | 8.63   | 1460                                 | 3.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 183                       | 19                     | 7.55   | 1370                                 | 2.9                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 196                       | 18                     | 7.04   | 1350                                 | 3.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 224                       | 16                     | 6.15   | 1300                                 | 3.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 239                       | 15                     | 5.76   | 1280                                 | 3.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 271                       | 13                     | 5.09   | 1240                                 | 3.9                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 306                       | 12                     | 4.51   | 1200                                 | 4.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 360                       | 9.8                    | 3.83   | 1150                                 | 4.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 75                        | 47                     | 18.31  | 1000                                 | 1.05               | R<br>RF                                                                            | 07<br>07 | DT<br>DT | 71D4<br>71D4 | 7.9       | 130                                                                                 |
|                        | 83                        | 43                     | 16.73  | 990                                  | 1.15               |                                                                                    |          |          |              | 7.9       | 131                                                                                 |
|                        | 98                        | 36                     | 14.12  | 960                                  | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 114                       | 31                     | 12.06  | 940                                  | 1.60               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 123                       | 29                     | 11.18  | 930                                  | 1.75               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 143                       | 25                     | 9.67   | 900                                  | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 153                       | 23                     | 9.01   | 890                                  | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 176                       | 20                     | 7.85   | 870                                  | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 185                       | 19                     | 7.48   | 860                                  | 2.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 202                       | 18                     | 6.83   | 840                                  | 2.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 239                       | 15                     | 5.76   | 810                                  | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 280                       | 13                     | 4.92   | 780                                  | 2.9                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 302                       | 12                     | 4.57   | 765                                  | 3.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 350                       | 10                     | 3.95   | 735                                  | 3.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 375                       | 9.4                    | 3.68   | 720                                  | 3.5                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 430                       | 8.2                    | 3.21   | 695                                  | 3.8                |                                                                                    |          |          |              |           |                                                                                     |

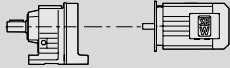


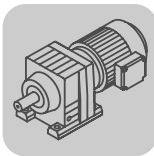
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$   | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                    |          |              | $m$<br>[kg] |  |
|---------------|------------------|---------------|-------|----------------------|-----------|------------------------------------------------------------------------------------|--------------------|----------|--------------|-------------|-------------------------------------------------------------------------------------|
| 0.37          | 274              | 13            | 9.67  | 780                  | 3.9       | R<br>RF                                                                            | 07<br>07           | DR<br>DR | 63L2<br>63L2 | 7.0         | 130                                                                                 |
|               | 294              | 12            | 9.01  | 765                  | 4.2       |                                                                                    |                    |          |              | 7.0         | 131                                                                                 |
|               | 337              | 11            | 7.85  | 740                  | 4.7       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 354              | 10            | 7.48  | 730                  | 4.3       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 388              | 9.1           | 6.83  | 715                  | 4.7       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 460              | 7.7           | 5.76  | 680                  | 5.2       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 538              | 6.6           | 4.92  | 650                  | 5.6       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 580              | 6.1           | 4.57  | 640                  | 5.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 671              | 5.3           | 3.95  | 610                  | 6.4       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 720              | 4.9           | 3.68  | 600                  | 6.7       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 826              | 4.3           | 3.21  | 575                  | 7.2       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 174              | 20            | 5.18  | 4570                 | 3.7       | RX<br>RXF                                                                          | 67<br>67           | DT<br>DT | 80K6<br>80K6 | 21          | 120                                                                                 |
|               | 199              | 18            | 4.53  | 4380                 | 4.6       |                                                                                    |                    |          |              | 25          | 121                                                                                 |
|               | 209              | 17            | 4.30* | 4310                 | 4.7       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 239              | 15            | 3.77  | 4130                 | 5.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 227              | 16            | 6.07  | 4200                 | 2.8       | RX<br>RXF                                                                          | 67<br>67           | DT<br>DT | 71D4<br>71D4 | 19          | 120                                                                                 |
|               | 267              | 13            | 5.18  | 3990                 | 5.6       |                                                                                    |                    |          |              | 23          | 121                                                                                 |
|               | 305              | 12            | 4.53  | 3820                 | 7.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 321              | 11            | 4.30* | 3760                 | 7.3       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 366              | 9.7           | 3.77  | 3610                 | 9.0       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 431              | 8.2           | 3.20* | 3420                 | 12        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 478              | 7.4           | 2.89  | 3310                 | 14        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 543              | 6.5           | 2.54  | 3170                 | 18        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 575              | 6.1           | 2.40* | 3110                 | 20        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 675              | 5.2           | 2.04  | 2950                 | 26        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 207              | 17            | 4.35  | 3500                 | 4.0       | RX<br>RXF                                                                          | 57<br>57           | DT<br>DT | 80K6<br>80K6 | 18          | 118                                                                                 |
|               | 238              | 15            | 3.79  | 3350                 | 4.6       |                                                                                    |                    |          |              | 20          | 119                                                                                 |
|               | 254              | 14            | 3.55* | 3280                 | 5.0       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 251              | 14            | 5.50* | 3300                 | 2.8       | RX<br>RXF                                                                          | 57<br>57           | DT<br>DT | 71D4<br>71D4 | 16          | 118                                                                                 |
|               | 272              | 13            | 5.07  | 3210                 | 2.8       |                                                                                    |                    |          |              | 18          | 119                                                                                 |
|               | 317              | 11            | 4.35  | 3060                 | 6.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 364              | 9.7           | 3.79  | 2930                 | 7.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 389              | 9.1           | 3.55* | 2870                 | 7.6       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 440              | 8.0           | 3.14  | 2760                 | 8.1       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 474              | 7.5           | 2.91  | 2690                 | 8.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 523              | 6.8           | 2.64* | 2610                 | 10        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 582              | 6.1           | 2.37  | 2520                 | 11        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 676              | 5.2           | 2.04  | 2400                 | 13        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 719              | 4.9           | 1.92* | 2350                 | 14        |                                                                                    |                    |          |              |             |                                                                                     |
|               | 835              | 4.2           | 1.65  | 2240                 | 16        |                                                                                    |                    |          |              |             |                                                                                     |
| 0.55          | 0.22             | 19800         | 6077  | 120000               | 0.90      | R<br>RF                                                                            | 167 R97<br>167 R97 | DT<br>DT | 80K4<br>80K4 | 750         | 167                                                                                 |
|               | 0.25             | 17600         | 5407  | 120000               | 1.00      |                                                                                    |                    |          |              | 760         | 167                                                                                 |
|               | 0.29             | 15000         | 4650  | 120000               | 1.20      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.33             | 13100         | 4129  | 120000               | 1.35      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.28             | 16900         | 4926  | 22000                | 0.75      | R<br>RF                                                                            | 147 R77<br>147 R77 | DT<br>DT | 80K4<br>80K4 | 425         | 167                                                                                 |
|               | 0.31             | 14700         | 4325  | 53900                | 0.90      |                                                                                    |                    |          |              | 430         | 167                                                                                 |
|               | 0.36             | 12900         | 3754  | 62900                | 1.00      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.41             | 11200         | 3302  | 65900                | 1.15      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.47             | 9830          | 2898  | 68000                | 1.30      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.53             | 8890          | 2555  | 69300                | 1.45      | R<br>RF                                                                            | 147 R77<br>147 R77 | DT<br>DT | 80K4<br>80K4 | 420         | 167                                                                                 |
|               | 0.62             | 7700          | 2211  | 70600                | 1.70      |                                                                                    |                    |          |              | 430         | 167                                                                                 |
|               | 0.70             | 6790          | 1951  | 71500                | 1.90      |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.80             | 5810          | 1705  | 72400                | 2.2       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.89             | 5210          | 1536  | 72800                | 2.5       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.0              | 4510          | 1329  | 73300                | 2.9       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 1.2              | 3920          | 1166  | 73600                | 3.3       |                                                                                    |                    |          |              |             |                                                                                     |
|               | 0.55             | 8650          | 2484  | 51200                | 0.90      | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 80K4<br>80K4 | 280<br>305  | 167<br>167                                                                          |



| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                                  |                        |                            | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|----------------------------------|------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------|
| <b>0.55</b>   | <b>0.51</b>      | 9250          | 2658   | 48400                | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 290         | 167                                                                                 |
|               | <b>0.56</b>      | 8400          | 2412   | 52300                | 0.95      |                                                                                    |                                  |                        |                            | 315         | 167                                                                                 |
|               | <b>0.66</b>      | 7220          | 2073   | 55000                | 1.10      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.74</b>      | 6320          | 1839   | 56500                | 1.25      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.85</b>      | 5420          | 1598   | 57900                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.97</b>      | 4840          | 1397   | 58600                | 1.65      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.1</b>       | 4220          | 1226   | 59300                | 1.90      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.2</b>       | 3780          | 1090   | 59700                | 2.1       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.4</b>       | 3300          | 951    | 60100                | 2.4       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.6</b>       | 2820          | 831    | 60500                | 2.8       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>0.97</b>      | 4830          | 1407   | 21900                | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 200         | 167                                                                                 |
|               | <b>1.1</b>       | 4150          | 1209   | 30200                | 1.05      |                                                                                    |                                  |                        |                            | 205         | 167                                                                                 |
|               | <b>1.3</b>       | 3620          | 1055   | 32700                | 1.20      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.5</b>       | 3170          | 919    | 34400                | 1.35      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 2830          | 815    | 35500                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.9</b>       | 2470          | 717    | 36200                | 1.75      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.2</b>       | 2160          | 626    | 36600                | 2.0       | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 205         | 167                                                                                 |
|               | <b>1.1</b>       | 4180          | 1226   | 30100                | 1.05      |                                                                                    |                                  |                        |                            | 210         | 167                                                                                 |
|               | <b>1.2</b>       | 3740          | 1104   | 32200                | 1.15      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.4</b>       | 3220          | 939    | 34200                | 1.35      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 2800          | 822    | 35600                | 1.55      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.7</b>       | 2870          | 824    | 21800                | 1.05      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>1.8</b>       | 2570          | 737    | 23700                | 1.15      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.1</b>       | 2200          | 632    | 25500                | 1.35      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.4</b>       | 1920          | 560    | 26700                | 1.55      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.8</b>       | 1670          | 484    | 27400                | 1.80      | <b>R</b><br><b>RF</b>                                                              | <b>97 R57</b><br><b>97 R57</b>   | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 130         | 167                                                                                 |
|               | <b>3.1</b>       | 1510          | 431    | 27600                | 2.0       |                                                                                    |                                  |                        |                            | 150         | 167                                                                                 |
|               | <b>3.6</b>       | 1320          | 379    | 27900                | 2.3       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.0</b>       | 1180          | 336    | 28000                | 2.6       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.6</b>       | 1030          | 296    | 28200                | 2.9       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>5.5</b>       | 860           | 249    | 28300                | 3.5       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.6</b>       | 1820          | 525    | 13600                | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b>   | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 89          | 167                                                                                 |
|               | <b>3.0</b>       | 1580          | 456    | 16700                | 1.00      |                                                                                    |                                  |                        |                            | 97          | 167                                                                                 |
|               | <b>3.4</b>       | 1370          | 398    | 18100                | 1.15      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.9</b>       | 1210          | 352    | 18900                | 1.30      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.5</b>       | 1040          | 305    | 19700                | 1.50      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.9</b>       | 1690          | 472    | 15900                | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>87 R57</b><br><b>87 R57</b>   | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 88          | 167                                                                                 |
|               | <b>3.4</b>       | 1420          | 400    | 17800                | 1.10      |                                                                                    |                                  |                        |                            | 95          | 167                                                                                 |
|               | <b>3.8</b>       | 1280          | 361    | 18600                | 1.20      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.9</b>       | 990           | 276    | 4510                 | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>77 R37</b><br><b>77 R37</b>   | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 49          | 167                                                                                 |
|               | <b>5.8</b>       | 840           | 236    | 9730                 | 1.00      |                                                                                    |                                  |                        |                            | 54          | 167                                                                                 |
|               | <b>6.2</b>       | 785           | 221    | 10200                | 1.05      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>7.3</b>       | 660           | 186    | 11200                | 1.25      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>2.7</b>       | 1980          | 255.71 | 26500                | 1.50      | <b>R</b><br><b>RF</b>                                                              | <b>97</b><br><b>97</b>           | <b>DT</b><br><b>DT</b> | <b>90L8</b><br><b>90L8</b> | 115         | 157                                                                                 |
|               | <b>2.8</b>       | 1860          | 241.25 | 26900                | 1.60      |                                                                                    |                                  |                        |                            | 130         | 158                                                                                 |
|               | <b>3.1</b>       | 1670          | 216.28 | 27400                | 1.80      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.1</b>       | 1690          | 289.74 | 27400                | 1.75      | <b>R</b><br><b>RF</b>                                                              | <b>97</b><br><b>97</b>           | <b>DT</b><br><b>DT</b> | <b>80N6</b><br><b>80N6</b> | 110         | 157                                                                                 |
|               | <b>3.5</b>       | 1490          | 255.71 | 27700                | 2.0       |                                                                                    |                                  |                        |                            | 125         | 158                                                                                 |
|               | <b>3.7</b>       | 1410          | 241.25 | 27800                | 2.1       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.2</b>       | 1260          | 216.28 | 28000                | 2.4       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>4.7</b>       | 1120          | 289.74 | 28100                | 2.7       | <b>R</b><br><b>RF</b>                                                              | <b>97</b><br><b>97</b>           | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b> | 105         | 157                                                                                 |
|               | <b>5.3</b>       | 990           | 255.71 | 28200                | 3.0       |                                                                                    |                                  |                        |                            | 125         | 158                                                                                 |
|               | <b>5.6</b>       | 930           | 241.25 | 28300                | 3.2       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>6.3</b>       | 840           | 216.28 | 28400                | 3.6       |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>3.6</b>       | 1440          | 246.54 | 17700                | 1.10      | <b>R</b><br><b>RF</b>                                                              | <b>87</b><br><b>87</b>           | <b>DT</b><br><b>DT</b> | <b>80N6</b><br><b>80N6</b> | 68          | 154                                                                                 |
|               | <b>4.2</b>       | 1260          | 216.54 | 18700                | 1.25      |                                                                                    |                                  |                        |                            | 75          | 155                                                                                 |
|               | <b>4.4</b>       | 1200          | 205.71 | 19000                | 1.30      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>5.0</b>       | 1060          | 181.77 | 19600                | 1.45      |                                                                                    |                                  |                        |                            |             |                                                                                     |
|               | <b>5.8</b>       | 910           | 155.34 | 20000                | 1.70      |                                                                                    |                                  |                        |                            |             |                                                                                     |

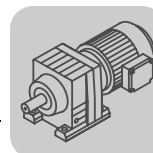


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 0.55                   | 5.5                       | 950                    | 246.54  | 20000                                | 1.65               | R<br>RF                                                                            | 87<br>87 | DT<br>DT | 80K4<br>80K4 | 66        | 154                                                                                 |
|                        | 6.3                       | 840                    | 216.54  | 20000                                | 1.85               |                                                                                    |          |          |              | 73        | 155                                                                                 |
|                        | 6.6                       | 795                    | 205.71  | 20000                                | 1.95               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 7.5                       | 700                    | 181.77  | 20000                                | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 8.8                       | 600                    | 155.34  | 20000                                | 2.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 9.6                       | 550                    | 142.41  | 20000                                | 2.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 485                    | 124.97  | 20000                                | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 455                    | 118.43* | 20000                                | 3.4                | R<br>RF                                                                            | 77<br>77 | DT<br>DT | 80K4<br>80K4 | 40        | 151                                                                                 |
|                        | 13                        | 400                    | 103.65  | 20000                                | 3.9                |                                                                                    |          |          |              | 46        | 152                                                                                 |
|                        | 8.2                       | 645                    | 166.59  | 11300                                | 1.25               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 9.3                       | 565                    | 145.67  | 11800                                | 1.45               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 9.8                       | 535                    | 138.39  | 11900                                | 1.55               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 470                    | 121.42  | 12200                                | 1.75               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 400                    | 102.99  | 12500                                | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 15                        | 360                    | 92.97   | 12600                                | 2.3                | R<br>RF                                                                            | 67<br>67 | DT<br>DT | 80K4<br>80K4 | 34        | 148                                                                                 |
|                        | 17                        | 315                    | 81.80   | 12800                                | 2.6                |                                                                                    |          |          |              | 37        | 149                                                                                 |
|                        | 18                        | 300                    | 77.24   | 12800                                | 2.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 21                        | 255                    | 65.77   | 12900                                | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 8.6                       | 610                    | 158.14  | 7430                                 | 1.00               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 9.9                       | 530                    | 137.67  | 8290                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 500                    | 128.97  | 8600                                 | 1.20               | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 80K4<br>80K4 | 27        | 145                                                                                 |
|                        | 12                        | 440                    | 113.94  | 9060                                 | 1.35               |                                                                                    |          |          |              | 31        | 146                                                                                 |
|                        | 13                        | 410                    | 105.83  | 9280                                 | 1.45               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 14                        | 370                    | 95.91   | 9520                                 | 1.60               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 16                        | 335                    | 86.11   | 9730                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 18                        | 285                    | 74.17   | 9940                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 270                    | 69.75   | 10000                                | 2.2                | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 80K4<br>80K4 | 27        | 145                                                                                 |
|                        | 22                        | 235                    | 61.26   | 10100                                | 2.5                |                                                                                    |          |          |              | 31        | 146                                                                                 |
|                        | 24                        | 220                    | 56.89   | 10200                                | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 11                        | 465                    | 120.63  | 7030                                 | 0.95               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 13                        | 410                    | 106.58  | 7260                                 | 1.10               | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 80K4<br>80K4 | 27        | 145                                                                                 |
|                        | 14                        | 380                    | 98.99   | 7370                                 | 1.20               |                                                                                    |          |          |              | 30        | 146                                                                                 |
|                        | 15                        | 345                    | 89.71   | 7490                                 | 1.30               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 17                        | 310                    | 80.55   | 7600                                 | 1.45               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 265                    | 69.23   | 7710                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 21                        | 250                    | 64.85   | 7750                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 220                    | 57.29   | 7530                                 | 2.0                | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 80K4<br>80K4 | 22        | 142                                                                                 |
|                        | 26                        | 205                    | 53.22   | 7390                                 | 2.2                |                                                                                    |          |          |              | 22        | 143                                                                                 |
|                        | 28                        | 186                    | 48.23   | 7190                                 | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 31                        | 167                    | 43.30   | 6980                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 36                        | 144                    | 37.30*  | 6700                                 | 3.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 39                        | 136                    | 35.07   | 6580                                 | 3.3                | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 80K4<br>80K4 | 22        | 142                                                                                 |
|                        | 52                        | 102                    | 26.31   | 6060                                 | 4.4                |                                                                                    |          |          |              | 22        | 143                                                                                 |
|                        | 54                        | 97                     | 24.99*  | 5970                                 | 4.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 62                        | 85                     | 21.93   | 5740                                 | 5.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 73                        | 72                     | 18.60*  | 5460                                 | 6.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 15                        | 360                    | 93.68   | 3280                                 | 0.85               | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 80K4<br>80K4 | 22        | 142                                                                                 |
|                        | 16                        | 330                    | 84.90   | 5230                                 | 0.90               |                                                                                    |          |          |              | 22        | 143                                                                                 |
|                        | 18                        | 295                    | 76.23   | 5450                                 | 1.00               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 265                    | 68.54   | 5600                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 21                        | 250                    | 64.21   | 5670                                 | 1.20               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 24                        | 220                    | 56.73   | 5790                                 | 1.35               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 26                        | 205                    | 52.69   | 5770                                 | 1.45               | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 80K4<br>80K4 | 22        | 142                                                                                 |
|                        | 28                        | 184                    | 47.75   | 5630                                 | 1.65               |                                                                                    |          |          |              | 22        | 143                                                                                 |
|                        | 32                        | 166                    | 42.87   | 5470                                 | 1.80               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 37                        | 143                    | 36.93   | 5260                                 | 2.1                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 39                        | 134                    | 34.73   | 5180                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 46                        | 115                    | 29.88   | 4970                                 | 2.6                | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 80K4<br>80K4 | 22        | 142                                                                                 |
|                        | 51                        | 103                    | 26.74   | 4820                                 | 2.9                |                                                                                    |          |          |              | 22        | 143                                                                                 |
|                        | 58                        | 90                     | 23.28   | 4630                                 | 3.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 62                        | 84                     | 21.81   | 4550                                 | 3.6                |                                                                                    |          |          |              |           |                                                                                     |

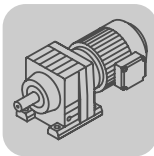


# R..DR/DT/DV R..D.. [kW]

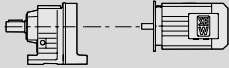
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |         |          |          |              | m<br>[kg] |     |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|---------|----------|----------|--------------|-----------|-----|
| 0.55                   | 22                        | 235                    | 61.18  | 3910                                 | 0.85               | R<br>RF | 37<br>37 | DT<br>DT | 80K4<br>80K4 | 18        | 139 |
|                        | 24                        | 215                    | 55.76  | 4740                                 | 0.95               |         |          |          |              | 19        | 140 |
|                        | 28                        | 186                    | 48.08  | 5120                                 | 1.10               |         |          |          |              |           |     |
|                        | 30                        | 173                    | 44.81  | 5230                                 | 1.15               |         |          |          |              |           |     |
|                        | 35                        | 151                    | 39.17  | 5070                                 | 1.30               |         |          |          |              |           |     |
|                        | 37                        | 142                    | 36.72  | 4990                                 | 1.40               |         |          |          |              |           |     |
|                        | 42                        | 125                    | 32.40  | 4840                                 | 1.60               |         |          |          |              |           |     |
|                        | 47                        | 111                    | 28.73  | 4700                                 | 1.80               |         |          |          |              |           |     |
|                        | 56                        | 94                     | 24.42  | 4500                                 | 2.1                |         |          |          |              |           |     |
|                        | 61                        | 86                     | 22.27  | 4390                                 | 2.3                | R<br>RF | 37<br>37 | DT<br>DT | 80K4<br>80K4 | 18        | 139 |
|                        | 70                        | 75                     | 19.31  | 4220                                 | 2.7                |         |          |          |              | 19        | 140 |
|                        | 75                        | 70                     | 18.05  | 4140                                 | 2.9                |         |          |          |              |           |     |
|                        | 87                        | 60                     | 15.60  | 3970                                 | 3.3                |         |          |          |              |           |     |
|                        | 103                       | 51                     | 13.25  | 3790                                 | 3.7                |         |          |          |              |           |     |
|                        | 115                       | 46                     | 11.83  | 3670                                 | 4.0                |         |          |          |              |           |     |
|                        | 35                        | 152                    | 39.25  | 3280                                 | 0.85               | R<br>RF | 27<br>27 | DT<br>DT | 80K4<br>80K4 | 12        | 136 |
|                        | 37                        | 142                    | 36.79  | 3240                                 | 0.90               |         |          |          |              | 12        | 137 |
|                        | 42                        | 125                    | 32.47  | 3160                                 | 1.05               |         |          |          |              |           |     |
|                        | 47                        | 111                    | 28.78  | 3080                                 | 1.15               |         |          |          |              |           |     |
|                        | 56                        | 95                     | 24.47  | 2970                                 | 1.40               |         |          |          |              |           |     |
|                        | 61                        | 86                     | 22.32  | 2910                                 | 1.50               | R<br>RF | 27<br>27 | DT<br>DT | 80K4<br>80K4 | 12        | 136 |
|                        | 70                        | 75                     | 19.35  | 2810                                 | 1.75               |         |          |          |              | 12        | 137 |
|                        | 75                        | 70                     | 18.08  | 2760                                 | 1.85               |         |          |          |              |           |     |
|                        | 87                        | 60                     | 15.63  | 2660                                 | 2.2                |         |          |          |              |           |     |
|                        | 102                       | 51                     | 13.28* | 2550                                 | 2.5                |         |          |          |              |           |     |
|                        | 115                       | 46                     | 11.86  | 2470                                 | 2.8                |         |          |          |              |           |     |
|                        | 134                       | 39                     | 10.13  | 2370                                 | 3.1                |         |          |          |              |           |     |
|                        | 145                       | 36                     | 9.41   | 2290                                 | 3.4                |         |          |          |              |           |     |
|                        | 167                       | 32                     | 8.16   | 2200                                 | 3.7                |         |          |          |              |           |     |
|                        | 178                       | 29                     | 7.63*  | 2160                                 | 3.8                |         |          |          |              |           |     |
|                        | 206                       | 26                     | 6.59   | 2070                                 | 4.2                |         |          |          |              |           |     |
|                        | 243                       | 22                     | 5.60*  | 1980                                 | 4.6                |         |          |          |              |           |     |
|                        | 272                       | 19                     | 5.00*  | 1910                                 | 4.9                |         |          |          |              |           |     |
|                        | 318                       | 17                     | 4.27   | 1830                                 | 5.3                |         |          |          |              |           |     |
|                        | 340                       | 15                     | 4.00*  | 1790                                 | 5.5                |         |          |          |              |           |     |
|                        | 404                       | 13                     | 3.37   | 1700                                 | 6.1                |         |          |          |              |           |     |
|                        | 50                        | 105                    | 53.76  | 235                                  | 0.80               | R<br>RF | 17<br>17 | DT<br>DT | 71D2<br>71D2 | 9.2       | 133 |
|                        | 57                        | 92                     | 47.44  | 1280                                 | 0.90               |         |          |          |              | 9.1       | 134 |
|                        | 61                        | 86                     | 44.18  | 1610                                 | 1.00               |         |          |          |              |           |     |
|                        | 70                        | 75                     | 38.61  | 1590                                 | 1.15               |         |          |          |              |           |     |
|                        | 69                        | 76                     | 19.71  | 1590                                 | 1.10               | R<br>RF | 17<br>17 | DT<br>DT | 80K4<br>80K4 | 11        | 133 |
|                        | 80                        | 66                     | 16.99  | 1560                                 | 1.30               |         |          |          |              | 11        | 134 |
|                        | 86                        | 61                     | 15.84  | 1550                                 | 1.40               |         |          |          |              |           |     |
|                        | 98                        | 54                     | 13.84  | 1510                                 | 1.60               |         |          |          |              |           |     |
|                        | 105                       | 50                     | 12.98  | 1500                                 | 1.70               |         |          |          |              |           |     |
|                        | 119                       | 44                     | 11.45  | 1460                                 | 1.85               |         |          |          |              |           |     |
|                        | 134                       | 39                     | 10.15  | 1430                                 | 1.95               |         |          |          |              |           |     |
|                        | 158                       | 33                     | 8.63   | 1380                                 | 2.2                |         |          |          |              |           |     |
|                        | 180                       | 29                     | 7.55   | 1290                                 | 1.90               |         |          |          |              |           |     |
|                        | 193                       | 27                     | 7.04   | 1270                                 | 2.0                |         |          |          |              |           |     |
|                        | 221                       | 24                     | 6.15   | 1240                                 | 2.3                |         |          |          |              |           |     |
|                        | 236                       | 22                     | 5.76   | 1220                                 | 2.4                |         |          |          |              |           |     |
|                        | 267                       | 20                     | 5.09   | 1190                                 | 2.6                |         |          |          |              |           |     |
|                        | 302                       | 17                     | 4.51   | 1150                                 | 2.8                |         |          |          |              |           |     |
|                        | 355                       | 15                     | 3.83   | 1110                                 | 3.0                |         |          |          |              |           |     |
|                        | 313                       | 17                     | 8.63   | 1170                                 | 4.3                | R<br>RF | 17<br>17 | DT<br>DT | 71D2<br>71D2 | 8.9       | 133 |
|                        | 358                       | 15                     | 7.55   | 1100                                 | 3.8                |         |          |          |              | 8.8       | 134 |
|                        | 384                       | 14                     | 7.04   | 1080                                 | 4.0                |         |          |          |              |           |     |
|                        | 439                       | 12                     | 6.15   | 1050                                 | 4.5                |         |          |          |              |           |     |

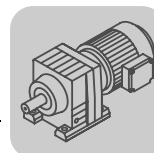


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |           |                    |          |              | m<br>[kg]  |            |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|-----------|--------------------|----------|--------------|------------|------------|
| 0.55                   | 147                       | 36                     | 18.31 | 810                                  | 1.40               | R<br>RF   | 07<br>07           | DT<br>DT | 71D2<br>71D2 | 7.9<br>7.9 | 130<br>131 |
|                        | 161                       | 33                     | 16.73 | 800                                  | 1.55               |           |                    |          |              |            |            |
|                        | 191                       | 28                     | 14.12 | 780                                  | 1.80               |           |                    |          |              |            |            |
|                        | 224                       | 24                     | 12.06 | 760                                  | 2.1                |           |                    |          |              |            |            |
|                        | 241                       | 22                     | 11.18 | 750                                  | 2.3                |           |                    |          |              |            |            |
|                        | 279                       | 19                     | 9.67  | 730                                  | 2.7                |           |                    |          |              |            |            |
|                        | 300                       | 18                     | 9.01  | 720                                  | 2.9                |           |                    |          |              |            |            |
|                        | 344                       | 15                     | 7.85  | 700                                  | 3.2                |           |                    |          |              |            |            |
|                        | 361                       | 15                     | 7.48  | 695                                  | 3.0                |           |                    |          |              |            |            |
|                        | 395                       | 13                     | 6.83  | 680                                  | 3.2                |           |                    |          |              |            |            |
|                        | 468                       | 11                     | 5.76  | 650                                  | 3.6                |           |                    |          |              |            |            |
|                        | 548                       | 9.6                    | 4.92  | 625                                  | 3.9                |           |                    |          |              |            |            |
|                        | 591                       | 8.9                    | 4.57  | 615                                  | 4.0                |           |                    |          |              |            |            |
|                        | 684                       | 7.7                    | 3.95  | 590                                  | 4.4                |           |                    |          |              |            |            |
|                        | 734                       | 7.2                    | 3.68  | 580                                  | 4.6                |           |                    |          |              |            |            |
|                        | 842                       | 6.2                    | 3.21  | 555                                  | 5.0                |           |                    |          |              |            |            |
|                        | 174                       | 30                     | 5.18  | 4510                                 | 2.5                | RX<br>RXF | 67<br>67           | DT<br>DT | 80N6<br>80N6 | 22<br>26   | 120<br>121 |
|                        | 199                       | 26                     | 4.53  | 4320                                 | 3.1                |           |                    |          |              |            |            |
|                        | 209                       | 25                     | 4.30* | 4260                                 | 3.2                |           |                    |          |              |            |            |
|                        | 239                       | 22                     | 3.77  | 4090                                 | 4.0                |           |                    |          |              |            |            |
|                        | 263                       | 20                     | 5.18  | 3970                                 | 3.8                | RX<br>RXF | 67<br>67           | DT<br>DT | 80K4<br>80K4 | 21<br>25   | 120<br>121 |
|                        | 300                       | 18                     | 4.53  | 3800                                 | 4.7                |           |                    |          |              |            |            |
|                        | 316                       | 17                     | 4.30* | 3740                                 | 4.8                |           |                    |          |              |            |            |
|                        | 360                       | 15                     | 3.77  | 3590                                 | 6.0                |           |                    |          |              |            |            |
|                        | 425                       | 12                     | 3.20* | 3410                                 | 8.1                |           |                    |          |              |            |            |
|                        | 471                       | 11                     | 2.89  | 3300                                 | 9.5                |           |                    |          |              |            |            |
|                        | 535                       | 9.8                    | 2.54  | 3170                                 | 12                 |           |                    |          |              |            |            |
|                        | 567                       | 9.3                    | 2.40* | 3110                                 | 13                 |           |                    |          |              |            |            |
|                        | 666                       | 7.9                    | 2.04  | 2950                                 | 17                 |           |                    |          |              |            |            |
|                        | 732                       | 7.2                    | 1.86  | 2860                                 | 18                 |           |                    |          |              |            |            |
|                        | 845                       | 6.2                    | 1.61  | 2730                                 | 18                 |           |                    |          |              |            |            |
|                        | 207                       | 25                     | 4.35  | 3440                                 | 2.7                | RX<br>RXF | 57<br>57           | DT<br>DT | 80N6<br>80N6 | 19<br>21   | 118<br>119 |
|                        | 238                       | 22                     | 3.79  | 3300                                 | 3.1                |           |                    |          |              |            |            |
|                        | 254                       | 21                     | 3.55* | 3230                                 | 3.3                |           |                    |          |              |            |            |
|                        | 287                       | 18                     | 3.14  | 3110                                 | 3.6                |           |                    |          |              |            |            |
|                        | 309                       | 17                     | 2.91  | 3040                                 | 3.9                |           |                    |          |              |            |            |
|                        | 312                       | 17                     | 4.35  | 3040                                 | 4.1                | RX<br>RXF | 57<br>57           | DT<br>DT | 80K4<br>80K4 | 18<br>20   | 118<br>119 |
|                        | 359                       | 15                     | 3.79  | 2910                                 | 4.7                |           |                    |          |              |            |            |
|                        | 383                       | 14                     | 3.55* | 2850                                 | 5.0                |           |                    |          |              |            |            |
|                        | 434                       | 12                     | 3.14  | 2740                                 | 5.4                |           |                    |          |              |            |            |
|                        | 467                       | 11                     | 2.91  | 2680                                 | 6.0                |           |                    |          |              |            |            |
|                        | 515                       | 10                     | 2.64* | 2600                                 | 6.8                |           |                    |          |              |            |            |
|                        | 574                       | 9.2                    | 2.37  | 2510                                 | 7.5                |           |                    |          |              |            |            |
|                        | 666                       | 7.9                    | 2.04  | 2390                                 | 8.7                |           |                    |          |              |            |            |
|                        | 708                       | 7.4                    | 1.92* | 2350                                 | 9.3                |           |                    |          |              |            |            |
|                        | 823                       | 6.4                    | 1.65  | 2230                                 | 11                 |           |                    |          |              |            |            |
|                        | 921                       | 5.7                    | 1.48  | 2150                                 | 12                 |           |                    |          |              |            |            |
|                        | 1045                      | 5.0                    | 1.30  | 2070                                 | 13                 |           |                    |          |              |            |            |
| 0.75                   | 0.30                      | 20700                  | 4650  | 120000                               | 0.85               | R         | 167 R97            | DT       | 80N4         | 750        | 167        |
|                        | 0.33                      | 18200                  | 4129  | 120000                               | 1.00               | RF        | 167 R97            | DT       | 80N4         | 760        | 167        |
|                        | 0.52                      | 12100                  | 2657  | 120000                               | 1.50               | R<br>RF   | 167 R97<br>167 R97 | DT<br>DT | 80N4<br>80N4 | 750<br>760 | 167<br>167 |
|                        | 0.59                      | 10500                  | 2333  | 120000                               | 1.70               |           |                    |          |              |            |            |
|                        | 0.66                      | 9300                   | 2085  | 120000                               | 1.95               |           |                    |          |              |            |            |
|                        | 0.96                      | 6550                   | 1438  | 120000                               | 2.8                |           |                    |          |              |            |            |
|                        | 0.42                      | 15300                  | 3302  | 46300                                | 0.85               | R         | 147 R77            | DT       | 80N4         | 425        | 167        |
|                        | 0.48                      | 13400                  | 2898  | 61800                                | 0.95               | RF        | 147 R77            | DT       | 80N4         | 435        | 167        |
|                        | 0.54                      | 12100                  | 2555  | 64400                                | 1.10               | R<br>RF   | 147 R77<br>147 R77 | DT<br>DT | 80N4<br>80N4 | 425<br>435 | 167<br>167 |
|                        | 0.62                      | 10500                  | 2211  | 67100                                | 1.25               |           |                    |          |              |            |            |
|                        | 0.71                      | 9230                   | 1951  | 68800                                | 1.40               |           |                    |          |              |            |            |
|                        | 0.81                      | 7940                   | 1705  | 70400                                | 1.65               |           |                    |          |              |            |            |
|                        | 0.90                      | 7130                   | 1536  | 71200                                | 1.80               |           |                    |          |              |            |            |
|                        | 1.0                       | 6170                   | 1329  | 72100                                | 2.1                |           |                    |          |              |            |            |
|                        | 1.2                       | 5380                   | 1166  | 72700                                | 2.4                |           |                    |          |              |            |            |

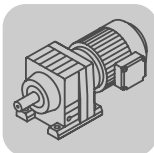


# R..DR/DT/DV R..D.. [kW]

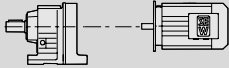
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |                | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|----------------|-----------|-------------------------------------------------------------------------------------|
| 0.75                   | 0.74                      | 8730                   | 1863   | 50900                                | 0.90               | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 80N4<br>80N4   | 285       | 167                                                                                 |
|                        | 0.87                      | 7390                   | 1586   | 54600                                | 1.10               |                                                                                    |                    |          |                | 305       | 167                                                                                 |
|                        | 0.99                      | 6580                   | 1391   | 56100                                | 1.20               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.1                       | 5920                   | 1256   | 57100                                | 1.35               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 0.67                      | 9810                   | 2073   | 37900                                | 0.80               | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 80N4<br>80N4   | 295       | 167                                                                                 |
|                        | 0.75                      | 8610                   | 1839   | 51400                                | 0.95               |                                                                                    |                    |          |                | 315       | 167                                                                                 |
|                        | 0.86                      | 7410                   | 1598   | 54600                                | 1.10               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 0.99                      | 6590                   | 1397   | 56100                                | 1.20               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.1                       | 5750                   | 1226   | 57400                                | 1.40               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.3                       | 5140                   | 1090   | 58200                                | 1.55               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.4                       | 4490                   | 951    | 59000                                | 1.80               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.7                       | 3860                   | 831    | 59600                                | 2.1                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.9                       | 3360                   | 730    | 60100                                | 2.4                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.3                       | 4940                   | 1055   | 16400                                | 0.85               | R<br>RF                                                                            | 107 R77<br>107 R77 | DT<br>DT | 80N4<br>80N4   | 200       | 167                                                                                 |
|                        | 1.5                       | 4310                   | 919    | 29400                                | 1.00               |                                                                                    |                    |          |                | 205       | 167                                                                                 |
|                        | 1.7                       | 3840                   | 815    | 31700                                | 1.10               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 1.5                       | 4400                   | 939    | 28900                                | 1.00               | R<br>RF                                                                            | 107 R77<br>107 R77 | DT<br>DT | 80N4<br>80N4   | 205       | 167                                                                                 |
|                        | 1.7                       | 3830                   | 822    | 31800                                | 1.10               |                                                                                    |                    |          |                | 210       | 167                                                                                 |
|                        | 3.7                       | 1710                   | 369    | 37100                                | 2.5                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 4.3                       | 1490                   | 323    | 37200                                | 2.9                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 2.2                       | 2990                   | 632    | 20100                                | 1.00               | R<br>RF                                                                            | 97 R57<br>97 R57   | DT<br>DT | 80N4<br>80N4   | 135       | 167                                                                                 |
|                        | 2.5                       | 2620                   | 560    | 23400                                | 1.15               |                                                                                    |                    |          |                | 150       | 167                                                                                 |
|                        | 2.9                       | 2270                   | 484    | 25200                                | 1.30               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 3.2                       | 2050                   | 431    | 26200                                | 1.45               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 3.6                       | 1800                   | 379    | 27100                                | 1.65               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 4.1                       | 1600                   | 336    | 27500                                | 1.90               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 4.7                       | 1400                   | 296    | 27800                                | 2.1                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 5.5                       | 1170                   | 249    | 28100                                | 2.6                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 3.5                       | 1870                   | 398    | 9720                                 | 0.85               | R<br>RF                                                                            | 87 R57<br>87 R57   | DT<br>DT | 80N4<br>80N4   | 90        | 167                                                                                 |
|                        | 3.9                       | 1650                   | 352    | 16200                                | 0.95               |                                                                                    |                    |          |                | 98        | 167                                                                                 |
|                        | 4.5                       | 1430                   | 305    | 17700                                | 1.10               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 5.2                       | 1260                   | 268    | 18700                                | 1.25               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 5.9                       | 1110                   | 236    | 19400                                | 1.40               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 3.8                       | 1740                   | 361    | 15500                                | 0.90               | R<br>RF                                                                            | 87 R57<br>87 R57   | DT<br>DT | 80N4<br>80N4   | 89        | 167                                                                                 |
|                        | 4.6                       | 1440                   | 300    | 17700                                | 1.10               |                                                                                    |                    |          |                | 96        | 167                                                                                 |
|                        | 5.4                       | 1220                   | 256    | 18900                                | 1.25               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 2.8                       | 2610                   | 251.15 | 36000                                | 1.65               | R<br>RF                                                                            | 107<br>107         | DV<br>DV | 100M8<br>100M8 | 180       | 159                                                                                 |
|                        | 3.0                       | 2390                   | 229.95 | 36300                                | 1.80               |                                                                                    |                    |          |                | 185       | 160                                                                                 |
|                        | 3.4                       | 2110                   | 203.16 | 36700                                | 2.0                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 3.2                       | 2240                   | 216.28 | 25300                                | 1.35               | R<br>RF                                                                            | 97<br>97           | DV<br>DV | 100M8<br>100M8 | 125       | 157                                                                                 |
|                        | 3.7                       | 1930                   | 186.30 | 26600                                | 1.55               |                                                                                    |                    |          |                | 140       | 158                                                                                 |
|                        | 4.1                       | 1760                   | 170.02 | 27200                                | 1.70               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 3.5                       | 2030                   | 255.71 | 26200                                | 1.45               | R<br>RF                                                                            | 97<br>97           | DT<br>DT | 90S6<br>90S6   | 115       | 157                                                                                 |
|                        | 3.7                       | 1920                   | 241.25 | 26700                                | 1.55               |                                                                                    |                    |          |                | 130       | 158                                                                                 |
|                        | 4.2                       | 1720                   | 216.28 | 27300                                | 1.75               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 4.8                       | 1500                   | 289.74 | 27600                                | 2.0                | R<br>RF                                                                            | 97<br>97           | DT<br>DT | 80N4<br>80N4   | 110       | 157                                                                                 |
|                        | 5.4                       | 1330                   | 255.71 | 27900                                | 2.3                |                                                                                    |                    |          |                | 125       | 158                                                                                 |
|                        | 5.7                       | 1250                   | 241.25 | 28000                                | 2.4                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 6.4                       | 1120                   | 216.28 | 28100                                | 2.7                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 7.4                       | 970                    | 186.30 | 28300                                | 3.1                |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 8.1                       | 880                    | 170.02 | 28300                                | 3.4                | R<br>RF                                                                            | 87<br>87           | DT<br>DT | 90S6<br>90S6   | 73        | 154                                                                                 |
|                        | 4.2                       | 1720                   | 216.54 | 15600                                | 0.90               |                                                                                    |                    |          |                | 80        | 155                                                                                 |
|                        | 4.4                       | 1640                   | 205.71 | 16300                                | 0.95               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 5.0                       | 1450                   | 181.77 | 17600                                | 1.05               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 5.8                       | 1240                   | 155.34 | 18800                                | 1.25               |                                                                                    |                    |          |                |           |                                                                                     |
|                        | 6.3                       | 1130                   | 142.41 | 19300                                | 1.35               | R<br>RF                                                                            | 87                 | DT       | 90S6           | 80        | 155                                                                                 |

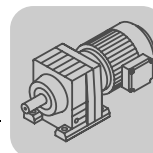


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |         |          |          |              | $m$<br>[kg] |     |
|---------------|------------------|---------------|---------|----------------------|-----------|---------|----------|----------|--------------|-------------|-----|
| 0.75          | 5.6              | 1280          | 246.54  | 18600                | 1.20      | R<br>RF | 87<br>87 | DT<br>DT | 80N4<br>80N4 | 68          | 154 |
|               | 6.4              | 1120          | 216.54  | 19300                | 1.40      |         |          |          |              | 75          | 155 |
|               | 6.7              | 1070          | 205.71  | 19600                | 1.45      |         |          |          |              |             |     |
|               | 7.6              | 940           | 181.77  | 20000                | 1.65      |         |          |          |              |             |     |
|               | 8.9              | 810           | 155.34  | 20000                | 1.90      |         |          |          |              |             |     |
|               | 9.7              | 740           | 142.41  | 20000                | 2.1       |         |          |          |              |             |     |
|               | 11               | 650           | 124.97  | 20000                | 2.4       |         |          |          |              |             |     |
|               | 12               | 615           | 118.43* | 20000                | 2.5       |         |          |          |              |             |     |
|               | 13               | 540           | 103.65  | 20000                | 2.9       | R<br>RF | 77<br>77 | DT<br>DT | 80N4<br>80N4 | 42          | 151 |
|               | 15               | 485           | 93.38   | 20000                | 3.2       |         |          |          |              | 48          | 152 |
|               | 8.3              | 860           | 166.59  | 9490                 | 0.95      |         |          |          |              |             |     |
|               | 9.5              | 755           | 145.67  | 10500                | 1.10      |         |          |          |              |             |     |
|               | 10               | 720           | 138.39  | 10800                | 1.15      |         |          |          |              |             |     |
|               | 11               | 630           | 121.42  | 11400                | 1.30      |         |          |          |              |             |     |
|               | 13               | 535           | 102.99  | 11900                | 1.55      |         |          |          |              |             |     |
|               | 15               | 485           | 92.97   | 12200                | 1.70      |         |          |          |              |             |     |
|               | 17               | 425           | 81.80   | 12400                | 1.95      | R<br>RF | 77<br>77 | DT<br>DT | 80N4<br>80N4 | 42          | 151 |
|               | 18               | 400           | 77.24   | 12500                | 2.1       |         |          |          |              | 48          | 152 |
|               | 21               | 340           | 65.77   | 12700                | 2.4       |         |          |          |              |             |     |
|               | 24               | 300           | 57.68   | 12800                | 2.7       |         |          |          |              |             |     |
|               | 27               | 270           | 52.07   | 12900                | 3.0       |         |          |          |              |             |     |
|               | 30               | 240           | 45.81   | 12900                | 3.5       |         |          |          |              |             |     |
|               | 32               | 225           | 43.26   | 13000                | 3.7       |         |          |          |              |             |     |
|               | 11               | 670           | 128.97  | 4040                 | 0.90      | R<br>RF | 67<br>67 | DT<br>DT | 80N4<br>80N4 | 35          | 148 |
|               | 12               | 590           | 113.94  | 7660                 | 1.00      |         |          |          |              | 38          | 149 |
|               | 13               | 550           | 105.83  | 8120                 | 1.10      |         |          |          |              |             |     |
|               | 14               | 500           | 95.91   | 8600                 | 1.20      |         |          |          |              |             |     |
|               | 16               | 445           | 86.11   | 9010                 | 1.35      |         |          |          |              |             |     |
|               | 19               | 385           | 74.17   | 9430                 | 1.55      |         |          |          |              |             |     |
|               | 20               | 360           | 69.75   | 9570                 | 1.65      |         |          |          |              |             |     |
|               | 23               | 320           | 61.26   | 9800                 | 1.90      | R<br>RF | 57<br>57 | DT<br>DT | 80N4<br>80N4 | 28          | 145 |
|               | 24               | 295           | 56.89   | 9910                 | 2.0       |         |          |          |              | 32          | 146 |
|               | 27               | 270           | 51.56   | 10000                | 2.2       |         |          |          |              |             |     |
|               | 30               | 240           | 46.29   | 10100                | 2.5       |         |          |          |              |             |     |
|               | 13               | 555           | 106.58  | 4610                 | 0.80      |         |          |          |              |             |     |
|               | 14               | 515           | 98.99   | 6200                 | 0.90      |         |          |          |              |             |     |
|               | 15               | 465           | 89.71   | 7040                 | 0.95      |         |          |          |              |             |     |
|               | 17               | 420           | 80.55   | 7240                 | 1.10      |         |          |          |              |             |     |
|               | 20               | 360           | 69.23   | 7450                 | 1.25      | R<br>RF | 57<br>57 | DT<br>DT | 80N4<br>80N4 | 28          | 145 |
|               | 21               | 335           | 64.85   | 7430                 | 1.35      |         |          |          |              | 32          | 146 |
|               | 24               | 295           | 57.29   | 7220                 | 1.50      |         |          |          |              |             |     |
|               | 26               | 275           | 53.22   | 7090                 | 1.65      |         |          |          |              |             |     |
|               | 29               | 250           | 48.23   | 6930                 | 1.80      |         |          |          |              |             |     |
|               | 32               | 225           | 43.30   | 6740                 | 2.0       |         |          |          |              |             |     |
|               | 37               | 194           | 37.30*  | 6490                 | 2.3       |         |          |          |              |             |     |
|               | 39               | 182           | 35.07   | 6380                 | 2.5       | R<br>RF | 47<br>47 | DT<br>DT | 80N4<br>80N4 | 23          | 142 |
|               | 46               | 157           | 30.18   | 6130                 | 2.9       |         |          |          |              | 23          | 143 |
|               | 51               | 140           | 26.97   | 5940                 | 3.2       |         |          |          |              |             |     |
|               | 52               | 137           | 26.31   | 5900                 | 3.3       |         |          |          |              |             |     |
|               | 55               | 130           | 24.99*  | 5820                 | 3.5       |         |          |          |              |             |     |
|               | 63               | 114           | 21.93   | 5610                 | 4.0       |         |          |          |              |             |     |
|               | 74               | 97            | 18.60*  | 5350                 | 4.7       |         |          |          |              |             |     |
|               | 20               | 355           | 68.54   | 3660                 | 0.85      | R<br>RF | 47<br>47 | DT<br>DT | 80N4<br>80N4 | 23          | 142 |
|               | 21               | 335           | 64.21   | 4950                 | 0.90      |         |          |          |              | 23          | 143 |
|               | 24               | 295           | 56.73   | 5450                 | 1.00      |         |          |          |              |             |     |
|               | 26               | 275           | 52.69   | 5480                 | 1.10      |         |          |          |              |             |     |
|               | 29               | 250           | 47.75   | 5370                 | 1.20      |         |          |          |              |             |     |
|               | 32               | 225           | 42.87   | 5240                 | 1.35      |         |          |          |              |             |     |
|               | 37               | 192           | 36.93   | 5060                 | 1.55      |         |          |          |              |             |     |
|               | 40               | 180           | 34.73   | 4980                 | 1.65      | R<br>RF | 47<br>47 | DT<br>DT | 80N4<br>80N4 | 23          | 142 |
|               | 46               | 155           | 29.88   | 4800                 | 1.95      |         |          |          |              | 23          | 143 |
|               | 52               | 139           | 26.70   | 4660                 | 2.2       |         |          |          |              |             |     |
|               | 58               | 122           | 23.59   | 4510                 | 2.5       |         |          |          |              |             |     |
|               | 52               | 139           | 26.74   | 4660                 | 2.2       | R<br>RF | 47<br>47 | DT<br>DT | 80N4<br>80N4 | 23          | 142 |
|               | 59               | 121           | 23.28   | 4490                 | 2.5       |         |          |          |              | 23          | 143 |
|               | 63               | 113           | 21.81   | 4420                 | 2.7       |         |          |          |              |             |     |
|               | 72               | 100           | 19.27   | 4270                 | 3.0       |         |          |          |              |             |     |
|               | 77               | 93            | 17.89   | 4180                 | 3.1       |         |          |          |              |             |     |
|               | 85               | 84            | 16.22   | 4070                 | 3.3       |         |          |          |              |             |     |

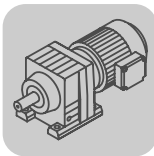


# R..DR/DT/DV R..D.. [kW]

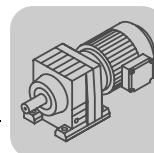
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |          |          |              | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|----------|----------|--------------|-------------|-------------------------------------------------------------------------------------|
| 0.75          | 29               | 250           | 48.08  | 2330                 | 0.80      | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 80N4<br>80N4 | 19          | 139                                                                                 |
|               | 31               | 235           | 44.81  | 4230                 | 0.85      |                                                                                    |          |          |              | 20          | 140                                                                                 |
|               | 35               | 205           | 39.17  | 4720                 | 1.00      |                                                                                    |          |          |              |             |                                                                                     |
|               | 38               | 191           | 36.72  | 4740                 | 1.05      | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 80N4<br>80N4 | 19          | 139                                                                                 |
|               | 43               | 168           | 32.40  | 4610                 | 1.20      |                                                                                    |          |          |              | 20          | 140                                                                                 |
|               | 48               | 149           | 28.73  | 4490                 | 1.35      |                                                                                    |          |          |              |             |                                                                                     |
|               | 57               | 127           | 24.42  | 4320                 | 1.60      |                                                                                    |          |          |              |             |                                                                                     |
|               | 62               | 116           | 22.27  | 4230                 | 1.75      | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 80N4<br>80N4 | 19          | 139                                                                                 |
|               | 71               | 100           | 19.31  | 4080                 | 2.0       |                                                                                    |          |          |              | 20          | 140                                                                                 |
|               | 76               | 94            | 18.05  | 4010                 | 2.1       |                                                                                    |          |          |              |             |                                                                                     |
|               | 88               | 81            | 15.60  | 3850                 | 2.5       |                                                                                    |          |          |              |             |                                                                                     |
|               | 104              | 69            | 13.25  | 3690                 | 2.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 117              | 61            | 11.83  | 3570                 | 3.0       |                                                                                    |          |          |              |             |                                                                                     |
|               | 137              | 53            | 10.11  | 3420                 | 3.2       |                                                                                    |          |          |              |             |                                                                                     |
|               | 146              | 49            | 9.47   | 3360                 | 3.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 48               | 149           | 28.78  | 2880                 | 0.85      | R<br>RF                                                                            | 27<br>27 | DT<br>DT | 80N4<br>80N4 | 13          | 136                                                                                 |
|               | 56               | 127           | 24.47  | 2800                 | 1.00      |                                                                                    |          |          |              | 13          | 137                                                                                 |
|               | 62               | 116           | 22.32  | 2750                 | 1.10      | R<br>RF                                                                            | 27<br>27 | DT<br>DT | 80N4<br>80N4 | 13          | 136                                                                                 |
|               | 71               | 100           | 19.35  | 2670                 | 1.30      |                                                                                    |          |          |              | 13          | 137                                                                                 |
|               | 76               | 94            | 18.08  | 2630                 | 1.40      |                                                                                    |          |          |              |             |                                                                                     |
|               | 88               | 81            | 15.63  | 2550                 | 1.60      |                                                                                    |          |          |              |             |                                                                                     |
|               | 104              | 69            | 13.28* | 2450                 | 1.90      |                                                                                    |          |          |              |             |                                                                                     |
|               | 116              | 62            | 11.86  | 2380                 | 2.1       |                                                                                    |          |          |              |             |                                                                                     |
|               | 136              | 53            | 10.13  | 2290                 | 2.3       |                                                                                    |          |          |              |             |                                                                                     |
|               | 147              | 49            | 9.41   | 2210                 | 2.5       |                                                                                    |          |          |              |             |                                                                                     |
|               | 169              | 42            | 8.16   | 2130                 | 2.7       |                                                                                    |          |          |              |             |                                                                                     |
|               | 181              | 40            | 7.63*  | 2090                 | 2.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 209              | 34            | 6.59   | 2010                 | 3.1       |                                                                                    |          |          |              |             |                                                                                     |
|               | 246              | 29            | 5.60*  | 1930                 | 3.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 276              | 26            | 5.00*  | 1870                 | 3.7       |                                                                                    |          |          |              |             |                                                                                     |
|               | 70               | 102           | 19.71  | 465                  | 0.85      | R<br>RF                                                                            | 17<br>17 | DT<br>DT | 80N4<br>80N4 | 12          | 133                                                                                 |
|               | 81               | 88            | 16.99  | 1390                 | 0.95      |                                                                                    |          |          |              | 12          | 134                                                                                 |
|               | 87               | 82            | 15.84  | 1380                 | 1.05      |                                                                                    |          |          |              |             |                                                                                     |
|               | 100              | 72            | 13.84  | 1370                 | 1.20      |                                                                                    |          |          |              |             |                                                                                     |
|               | 106              | 67            | 12.98  | 1360                 | 1.25      |                                                                                    |          |          |              |             |                                                                                     |
|               | 121              | 59            | 11.45  | 1350                 | 1.35      |                                                                                    |          |          |              |             |                                                                                     |
|               | 136              | 53            | 10.15  | 1320                 | 1.45      |                                                                                    |          |          |              |             |                                                                                     |
|               | 160              | 45            | 8.63   | 1290                 | 1.60      |                                                                                    |          |          |              |             |                                                                                     |
|               | 183              | 39            | 7.55   | 1200                 | 1.45      |                                                                                    |          |          |              |             |                                                                                     |
|               | 196              | 37            | 7.04   | 1180                 | 1.50      |                                                                                    |          |          |              |             |                                                                                     |
|               | 224              | 32            | 6.15   | 1160                 | 1.70      |                                                                                    |          |          |              |             |                                                                                     |
|               | 239              | 30            | 5.76   | 1150                 | 1.75      |                                                                                    |          |          |              |             |                                                                                     |
|               | 271              | 26            | 5.09   | 1120                 | 1.95      |                                                                                    |          |          |              |             |                                                                                     |
|               | 306              | 23            | 4.51   | 1090                 | 2.1       |                                                                                    |          |          |              |             |                                                                                     |
|               | 360              | 20            | 3.83   | 1060                 | 2.3       |                                                                                    |          |          |              |             |                                                                                     |
|               | 236              | 30            | 11.45  | 1200                 | 2.7       | R<br>RF                                                                            | 17<br>17 | DT<br>DT | 80K2<br>80K2 | 11          | 133                                                                                 |
|               | 266              | 27            | 10.15  | 1170                 | 2.9       |                                                                                    |          |          |              | 11          | 134                                                                                 |
|               | 313              | 23            | 8.63   | 1130                 | 3.1       |                                                                                    |          |          |              |             |                                                                                     |
|               | 358              | 20            | 7.55   | 1060                 | 2.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 384              | 19            | 7.04   | 1040                 | 2.9       |                                                                                    |          |          |              |             |                                                                                     |
|               | 439              | 16            | 6.15   | 1010                 | 3.3       |                                                                                    |          |          |              |             |                                                                                     |
|               | 468              | 15            | 5.76   | 990                  | 3.5       |                                                                                    |          |          |              |             |                                                                                     |
|               | 531              | 14            | 5.09   | 960                  | 3.8       |                                                                                    |          |          |              |             |                                                                                     |
|               | 599              | 12            | 4.51   | 930                  | 4.0       |                                                                                    |          |          |              |             |                                                                                     |
|               | 704              | 10            | 3.83   | 890                  | 4.4       |                                                                                    |          |          |              |             |                                                                                     |
|               | 199              | 36            | 4.53   | 4260                 | 2.3       | RX<br>RXF                                                                          | 67<br>67 | DT<br>DT | 90S6<br>90S6 | 27          | 120                                                                                 |
|               | 209              | 34            | 4.30*  | 4200                 | 2.3       |                                                                                    |          |          |              | 31          | 121                                                                                 |
|               | 239              | 30            | 3.77   | 4040                 | 2.9       |                                                                                    |          |          |              |             |                                                                                     |
|               | 281              | 26            | 3.20*  | 3840                 | 3.9       |                                                                                    |          |          |              |             |                                                                                     |

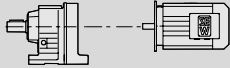


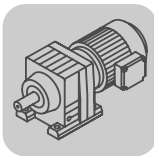
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |              | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|--------------|------------|-------------------------------------------------------------------------------------|
| 0.75                   | 267                       | 27                     | 5.18  | 3900                                 | 2.8                | RX<br>RXF                                                                          | 67<br>67           | DT<br>DT | 80N4<br>80N4 | 22<br>26   | 120<br>121                                                                          |
|                        | 305                       | 24                     | 4.53  | 3750                                 | 3.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 321                       | 22                     | 4.30* | 3690                                 | 3.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 366                       | 20                     | 3.77  | 3540                                 | 4.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 431                       | 17                     | 3.20* | 3360                                 | 6.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 478                       | 15                     | 2.89  | 3260                                 | 7.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 543                       | 13                     | 2.54  | 3130                                 | 8.9                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 575                       | 13                     | 2.40* | 3070                                 | 9.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 675                       | 11                     | 2.04  | 2920                                 | 13                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 743                       | 9.6                    | 1.86  | 2830                                 | 13                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 858                       | 8.3                    | 1.61  | 2700                                 | 14                 |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 238                       | 30                     | 3.79  | 3240                                 | 2.3                | RX<br>RXF                                                                          | 57<br>57           | DT<br>DT | 90S6<br>90S6 | 24<br>26   | 118<br>119                                                                          |
|                        | 254                       | 28                     | 3.55* | 3180                                 | 2.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 287                       | 25                     | 3.14  | 3060                                 | 2.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 309                       | 23                     | 2.91  | 3000                                 | 2.9                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 341                       | 21                     | 2.64* | 2910                                 | 3.3                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 317                       | 23                     | 4.35  | 2980                                 | 3.0                | RX<br>RXF                                                                          | 57<br>57           | DT<br>DT | 80N4<br>80N4 | 19<br>21   | 118<br>119                                                                          |
|                        | 364                       | 20                     | 3.79  | 2860                                 | 3.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 389                       | 18                     | 3.55* | 2800                                 | 3.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 440                       | 16                     | 3.14  | 2700                                 | 4.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 474                       | 15                     | 2.91  | 2630                                 | 4.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 523                       | 14                     | 2.64* | 2560                                 | 5.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 582                       | 12                     | 2.37  | 2470                                 | 5.6                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 676                       | 11                     | 2.04  | 2360                                 | 6.5                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 719                       | 10                     | 1.92* | 2310                                 | 6.9                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 835                       | 8.6                    | 1.65  | 2210                                 | 8.0                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 935                       | 7.7                    | 1.48  | 2130                                 | 8.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1060                      | 6.8                    | 1.30  | 2050                                 | 9.3                |                                                                                    |                    |          |              |            |                                                                                     |
| 1.1                    | 0.53                      | 17900                  | 2657  | 120000                               | 1.00               | R<br>RF                                                                            | 167 R97<br>167 R97 | DT<br>DT | 90S4<br>90S4 | 760<br>760 | 167<br>167                                                                          |
|                        | 0.60                      | 15600                  | 2333  | 120000                               | 1.15               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.67                      | 13800                  | 2085  | 120000                               | 1.30               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.75                      | 12300                  | 1877  | 120000                               | 1.45               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.84                      | 11000                  | 1670  | 120000                               | 1.65               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.97                      | 9680                   | 1438  | 120000                               | 1.85               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.1                       | 8620                   | 1279  | 120000                               | 2.1                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.2                       | 7510                   | 1123  | 120000                               | 2.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.63                      | 15300                  | 2211  | 46800                                | 0.85               | R<br>RF                                                                            | 147 R77<br>147 R77 | DT<br>DT | 90S4<br>90S4 | 430<br>440 | 167<br>167                                                                          |
|                        | 0.72                      | 13500                  | 1951  | 61700                                | 0.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.82                      | 11700                  | 1705  | 65200                                | 1.10               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 0.91                      | 10500                  | 1536  | 67100                                | 1.25               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.1                       | 9060                   | 1329  | 69000                                | 1.45               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.2                       | 7920                   | 1166  | 70400                                | 1.65               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.4                       | 6960                   | 1029  | 71400                                | 1.85               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.6                       | 6030                   | 889   | 72200                                | 2.2                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.8                       | 5300                   | 784   | 72700                                | 2.5                | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 90S4<br>90S4 | 290<br>310 | 167<br>167                                                                          |
|                        | 2.0                       | 4680                   | 695   | 73200                                | 2.8                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.0                       | 9610                   | 1391  | 41900                                | 0.85               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.1                       | 8660                   | 1256  | 51200                                | 0.90               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.3                       | 7590                   | 1105  | 54200                                | 1.05               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.3                       | 7160                   | 1043  | 55100                                | 1.10               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.6                       | 6070                   | 888   | 56900                                | 1.30               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.0                       | 9630                   | 1397  | 41500                                | 0.85               | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 90S4<br>90S4 | 300<br>320 | 167<br>167                                                                          |
|                        | 1.1                       | 8420                   | 1226  | 52200                                | 0.95               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.3                       | 7510                   | 1090  | 54400                                | 1.05               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.5                       | 6560                   | 951   | 56100                                | 1.20               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.7                       | 5670                   | 831   | 57500                                | 1.40               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.9                       | 4950                   | 730   | 58500                                | 1.60               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 2.2                       | 4230                   | 629   | 59300                                | 1.90               |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 2.5                       | 3830                   | 560   | 59700                                | 2.1                | R<br>RF                                                                            | 107 R77<br>107 R77 | DT<br>DT | 90S4<br>90S4 | 205<br>210 | 167<br>167                                                                          |
|                        | 2.9                       | 3300                   | 490   | 60100                                | 2.4                |                                                                                    |                    |          |              |            |                                                                                     |
|                        | 1.9                       | 4930                   | 717   | 17300                                | 0.85               |                                                                                    |                    |          |              |            |                                                                                     |



| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |                       |                                  |                        |                              | $m$<br>[kg] |     |
|---------------|------------------|---------------|---------|----------------------|-----------|-----------------------|----------------------------------|------------------------|------------------------------|-------------|-----|
| <b>1.1</b>    | 2.3              | 4150          | 614     | 30200                | 1.05      | <b>R</b><br><b>RF</b> | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 210         | 167 |
|               | 2.6              | 3670          | 544     | 32500                | 1.15      |                       |                                  |                        |                              | 215         | 167 |
|               | 2.8              | 3310          | 492     | 33900                | 1.30      |                       |                                  |                        |                              |             |     |
|               | 3.4              | 2810          | 417     | 35500                | 1.55      |                       |                                  |                        |                              |             |     |
|               | 3.8              | 2510          | 369     | 36200                | 1.70      |                       |                                  |                        |                              |             |     |
|               | 4.3              | 2200          | 323     | 36600                | 1.95      |                       |                                  |                        |                              |             |     |
|               | 4.9              | 1930          | 285     | 36800                | 2.2       |                       |                                  |                        |                              |             |     |
|               | 5.5              | 1700          | 253     | 37100                | 2.5       |                       |                                  |                        |                              |             |     |
|               | 3.2              | 2990          | 431     | 20300                | 1.00      | <b>R</b><br><b>RF</b> | <b>97 R57</b><br><b>97 R57</b>   | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 140         | 167 |
|               | 3.7              | 2620          | 379     | 23400                | 1.15      |                       |                                  |                        |                              | 155         | 167 |
|               | 4.2              | 2330          | 336     | 24900                | 1.30      |                       |                                  |                        |                              |             |     |
|               | 4.7              | 2050          | 296     | 26200                | 1.45      |                       |                                  |                        |                              |             |     |
|               | 5.6              | 1710          | 249     | 27300                | 1.75      |                       |                                  |                        |                              |             |     |
|               | 6.0              | 1590          | 234     | 27500                | 1.90      |                       |                                  |                        |                              |             |     |
|               | 6.7              | 1430          | 209     | 27700                | 2.1       |                       |                                  |                        |                              |             |     |
|               | 5.2              | 1840          | 268     | 11700                | 0.85      | <b>R</b><br><b>RF</b> | <b>87 R57</b><br><b>87 R57</b>   | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 95          | 167 |
|               | 5.9              | 1630          | 236     | 16400                | 0.95      |                       |                                  |                        |                              | 105         | 167 |
|               | 6.7              | 1430          | 209     | 17700                | 1.10      |                       |                                  |                        |                              |             |     |
|               | 5.5              | 1780          | 256     | 15100                | 0.85      | <b>R</b><br><b>RF</b> | <b>87 R57</b><br><b>87 R57</b>   | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 94          | 167 |
|               | 6.0              | 1610          | 232     | 16500                | 0.95      |                       |                                  |                        |                              | 100         | 167 |
|               | 7.2              | 1370          | 195     | 18100                | 1.15      |                       |                                  |                        |                              |             |     |
|               | 2.7              | 3940          | 251.15  | 31300                | 1.10      | <b>R</b><br><b>RF</b> | <b>107</b><br><b>107</b>         | <b>DV</b><br><b>DV</b> | <b>100L8</b><br><b>100L8</b> | 185         | 159 |
|               | 2.9              | 3610          | 229.95  | 32700                | 1.20      |                       |                                  |                        |                              | 190         | 160 |
|               | 3.3              | 3190          | 203.16  | 34300                | 1.35      |                       |                                  |                        |                              |             |     |
|               | 3.9              | 2700          | 172.34  | 35800                | 1.60      |                       |                                  |                        |                              |             |     |
|               | 3.6              | 2920          | 255.71  | 21500                | 1.05      | <b>R</b><br><b>RF</b> | <b>97</b><br><b>97</b>           | <b>DT</b><br><b>DT</b> | <b>90L6</b><br><b>90L6</b>   | 115         | 157 |
|               | 3.8              | 2750          | 241.25  | 22600                | 1.10      |                       |                                  |                        |                              | 130         | 158 |
|               | 4.2              | 2470          | 216.28  | 24200                | 1.20      |                       |                                  |                        |                              |             |     |
|               | 4.9              | 2130          | 186.30  | 25900                | 1.40      |                       |                                  |                        |                              |             |     |
|               | 5.5              | 1920          | 255.71  | 26700                | 1.55      | <b>R</b><br><b>RF</b> | <b>97</b><br><b>97</b>           | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 115         | 157 |
|               | 5.8              | 1810          | 241.25  | 27100                | 1.65      |                       |                                  |                        |                              | 130         | 158 |
|               | 6.5              | 1620          | 216.28  | 27500                | 1.85      |                       |                                  |                        |                              |             |     |
|               | 7.5              | 1400          | 186.30  | 27800                | 2.2       |                       |                                  |                        |                              |             |     |
|               | 8.2              | 1280          | 170.02  | 27900                | 2.4       |                       |                                  |                        |                              |             |     |
|               | 9.3              | 1130          | 150.78  | 28100                | 2.7       |                       |                                  |                        |                              |             |     |
|               | 11               | 950           | 126.75  | 28300                | 3.2       |                       |                                  |                        |                              |             |     |
|               | 12               | 870           | 116.48  | 28300                | 3.4       |                       |                                  |                        |                              |             |     |
|               | 6.5              | 1620          | 216.54  | 16400                | 0.95      | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>           | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 73          | 154 |
|               | 6.8              | 1540          | 205.71  | 17000                | 1.00      |                       |                                  |                        |                              | 80          | 155 |
|               | 7.7              | 1360          | 181.77  | 18100                | 1.15      |                       |                                  |                        |                              |             |     |
|               | 9.0              | 1170          | 155.34  | 19100                | 1.35      | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>           | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 73          | 154 |
|               | 9.8              | 1070          | 142.41  | 19600                | 1.45      |                       |                                  |                        |                              | 80          | 155 |
|               | 11               | 940           | 124.97  | 20000                | 1.65      |                       |                                  |                        |                              |             |     |
|               | 12               | 890           | 118.43* | 20000                | 1.75      |                       |                                  |                        |                              |             |     |
|               | 14               | 780           | 103.65  | 20000                | 2.0       |                       |                                  |                        |                              |             |     |
|               | 15               | 700           | 93.38   | 20000                | 2.2       |                       |                                  |                        |                              |             |     |
|               | 17               | 615           | 81.92   | 20000                | 2.5       |                       |                                  |                        |                              |             |     |
|               | 19               | 545           | 72.57   | 20000                | 2.9       |                       |                                  |                        |                              |             |     |
|               | 22               | 480           | 63.68*  | 20000                | 3.2       |                       |                                  |                        |                              |             |     |
|               | 23               | 455           | 60.35*  | 20000                | 3.4       |                       |                                  |                        |                              |             |     |
|               | 27               | 395           | 52.82   | 20000                | 3.9       |                       |                                  |                        |                              |             |     |
|               | 12               | 910           | 121.42  | 8990                 | 0.90      | <b>R</b><br><b>RF</b> | <b>77</b><br><b>77</b>           | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 47          | 151 |
|               | 14               | 775           | 102.99  | 10300                | 1.05      |                       |                                  |                        |                              | 53          | 152 |
|               | 15               | 700           | 92.97   | 10900                | 1.20      |                       |                                  |                        |                              |             |     |
|               | 17               | 615           | 81.80   | 11500                | 1.35      | <b>R</b><br><b>RF</b> | <b>77</b><br><b>77</b>           | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 47          | 151 |
|               | 18               | 580           | 77.24   | 11700                | 1.40      |                       |                                  |                        |                              | 53          | 152 |
|               | 21               | 495           | 65.77   | 12100                | 1.65      |                       |                                  |                        |                              |             |     |
|               | 24               | 435           | 57.68   | 12400                | 1.90      |                       |                                  |                        |                              |             |     |
|               | 27               | 390           | 52.07   | 12500                | 2.1       |                       |                                  |                        |                              |             |     |
|               | 31               | 345           | 45.81   | 12700                | 2.4       |                       |                                  |                        |                              |             |     |
|               | 32               | 325           | 43.26   | 12700                | 2.5       |                       |                                  |                        |                              |             |     |
|               | 38               | 275           | 36.83   | 12900                | 3.0       |                       |                                  |                        |                              |             |     |
|               | 42               | 250           | 33.47   | 12900                | 3.3       |                       |                                  |                        |                              |             |     |

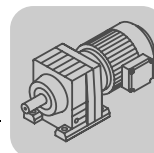


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |              | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|--------------|-----------|-------------------------------------------------------------------------------------|
| 1.1                    | 16                        | 645                    | 86.11  | 6820                                 | 0.95               | R<br>RF                                                                            | 67<br>67 | DT<br>DT | 90S4<br>90S4 | 40        | 148                                                                                 |
|                        | 19                        | 555                    | 74.17  | 8040                                 | 1.10               |                                                                                    |          |          |              | 43        | 149                                                                                 |
|                        | 20                        | 525                    | 69.75  | 8370                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 23                        | 460                    | 61.26  | 8920                                 | 1.30               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 25                        | 425                    | 56.89  | 9160                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 27                        | 385                    | 51.56  | 9420                                 | 1.55               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 30                        | 345                    | 46.29  | 9650                                 | 1.75               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 35                        | 300                    | 39.88* | 9890                                 | 1.95               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 37                        | 280                    | 37.50  | 9970                                 | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 43                        | 240                    | 32.27  | 10100                                | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 49                        | 215                    | 28.83  | 10200                                | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 50                        | 210                    | 28.13  | 10200                                | 2.6                | R<br>RF                                                                            | 67<br>67 | DT<br>DT | 90S4<br>90S4 | 39        | 148                                                                                 |
|                        | 52                        | 200                    | 26.72  | 10100                                | 2.7                |                                                                                    |          |          |              | 42        | 149                                                                                 |
|                        | 60                        | 176                    | 23.44  | 9730                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 70                        | 149                    | 19.89  | 9270                                 | 4.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 20                        | 520                    | 69.23  | 5990                                 | 0.85               | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 90S4<br>90S4 | 34        | 145                                                                                 |
|                        | 22                        | 485                    | 64.85  | 6850                                 | 0.90               |                                                                                    |          |          |              | 37        | 146                                                                                 |
|                        | 24                        | 430                    | 57.29  | 6700                                 | 1.05               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 26                        | 400                    | 53.22  | 6610                                 | 1.15               | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 90S4<br>90S4 | 34        | 145                                                                                 |
|                        | 29                        | 360                    | 48.23  | 6490                                 | 1.25               |                                                                                    |          |          |              | 37        | 146                                                                                 |
|                        | 32                        | 325                    | 43.30  | 6350                                 | 1.40               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 38                        | 280                    | 37.30* | 6140                                 | 1.60               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 40                        | 265                    | 35.07  | 6060                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 46                        | 225                    | 30.18  | 5850                                 | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 52                        | 200                    | 26.97  | 5690                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 53                        | 197                    | 26.31  | 5650                                 | 2.3                | R<br>RF                                                                            | 57<br>57 | DT<br>DT | 90S4<br>90S4 | 33        | 145                                                                                 |
|                        | 56                        | 188                    | 24.99* | 5580                                 | 2.4                |                                                                                    |          |          |              | 36        | 146                                                                                 |
|                        | 64                        | 165                    | 21.93  | 5400                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 75                        | 140                    | 18.60* | 5170                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 83                        | 126                    | 16.79  | 5030                                 | 3.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 29                        | 360                    | 47.75  | 3500                                 | 0.85               | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 90S4<br>90S4 | 28        | 142                                                                                 |
|                        | 33                        | 320                    | 42.87  | 4850                                 | 0.95               |                                                                                    |          |          |              | 28        | 143                                                                                 |
|                        | 38                        | 275                    | 36.93  | 4720                                 | 1.10               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 40                        | 260                    | 34.73  | 4660                                 | 1.15               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 47                        | 225                    | 29.88  | 4520                                 | 1.35               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 52                        | 200                    | 26.70  | 4410                                 | 1.50               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 59                        | 177                    | 23.59  | 4290                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 60                        | 175                    | 23.28  | 4270                                 | 1.70               | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 90S4<br>90S4 | 28        | 142                                                                                 |
|                        | 64                        | 164                    | 21.81  | 4210                                 | 1.85               |                                                                                    |          |          |              | 28        | 143                                                                                 |
|                        | 73                        | 145                    | 19.27  | 4080                                 | 2.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 78                        | 134                    | 17.89  | 4010                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 86                        | 122                    | 16.22  | 3910                                 | 2.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 96                        | 109                    | 14.56  | 3800                                 | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 112                       | 94                     | 12.54  | 3650                                 | 2.7                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 119                       | 89                     | 11.79  | 3590                                 | 2.8                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 138                       | 76                     | 10.15  | 3450                                 | 3.0                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 154                       | 68                     | 9.07   | 3340                                 | 3.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 43                        | 245                    | 32.40  | 2900                                 | 0.80               | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 90S4<br>90S4 | 24        | 139                                                                                 |
|                        | 49                        | 215                    | 28.73  | 3300                                 | 0.95               |                                                                                    |          |          |              | 26        | 140                                                                                 |
|                        | 57                        | 183                    | 24.42  | 3720                                 | 1.10               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 73                        | 145                    | 19.31  | 3840                                 | 1.40               | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 90S4<br>90S4 | 24        | 139                                                                                 |
|                        | 78                        | 135                    | 18.05  | 3790                                 | 1.50               |                                                                                    |          |          |              | 25        | 140                                                                                 |
|                        | 90                        | 117                    | 15.60  | 3660                                 | 1.70               |                                                                                    |          |          |              |           |                                                                                     |
|                        | 106                       | 99                     | 13.25  | 3520                                 | 1.90               | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 90S4<br>90S4 | 24        | 139                                                                                 |
|                        | 118                       | 89                     | 11.83  | 3430                                 | 2.1                |                                                                                    |          |          |              | 25        | 140                                                                                 |
|                        | 139                       | 76                     | 10.11  | 3290                                 | 2.2                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 148                       | 71                     | 9.47   | 3230                                 | 2.4                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 176                       | 60                     | 7.97   | 3090                                 | 2.6                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 210                       | 50                     | 6.67   | 2920                                 | 2.9                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 247                       | 43                     | 5.67   | 2790                                 | 3.3                |                                                                                    |          |          |              |           |                                                                                     |
|                        | 277                       | 38                     | 5.06   | 2700                                 | 3.6                |                                                                                    |          |          |              |           |                                                                                     |

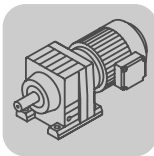


# R..DR/DT/DV R..D.. [kW]

| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |           |          |          |              | $m$<br>[kg] |            |
|---------------|------------------|---------------|--------|----------------------|-----------|-----------|----------|----------|--------------|-------------|------------|
| 1.1           | 72               | 145           | 19.35  | 2430                 | 0.90      | R<br>RF   | 27<br>27 | DT<br>DT | 90S4<br>90S4 | 18<br>18    | 136<br>137 |
|               | 77               | 136           | 18.08  | 2410                 | 0.95      |           |          |          |              |             |            |
|               | 90               | 117           | 15.63  | 2360                 | 1.10      |           |          |          |              |             |            |
|               | 105              | 100           | 13.28* | 2290                 | 1.30      |           |          |          |              |             |            |
|               | 118              | 89            | 11.86  | 2240                 | 1.45      |           |          |          |              |             |            |
|               | 138              | 76            | 10.13  | 2160                 | 1.60      |           |          |          |              |             |            |
|               | 172              | 61            | 8.16   | 2010                 | 1.90      |           |          |          |              |             |            |
|               | 184              | 57            | 7.63*  | 1980                 | 1.95      |           |          |          |              |             |            |
|               | 212              | 50            | 6.59   | 1920                 | 2.1       |           |          |          |              |             |            |
|               | 250              | 42            | 5.60*  | 1840                 | 2.4       |           |          |          |              |             |            |
|               | 280              | 38            | 5.00*  | 1790                 | 2.5       |           |          |          |              |             |            |
|               | 328              | 32            | 4.27   | 1720                 | 2.7       |           |          |          |              |             |            |
|               | 350              | 30            | 4.00*  | 1690                 | 2.8       |           |          |          |              |             |            |
|               | 415              | 25            | 3.37   | 1610                 | 3.1       |           |          |          |              |             |            |
|               | 203              | 52            | 13.28* | 1980                 | 2.5       | R<br>RF   | 27<br>27 | DT<br>DT | 80N2<br>80N2 | 13<br>13    | 136<br>137 |
|               | 228              | 46            | 11.86  | 1920                 | 2.8       |           |          |          |              |             |            |
|               | 267              | 39            | 10.13  | 1840                 | 3.1       |           |          |          |              |             |            |
|               | 287              | 37            | 9.41   | 1780                 | 3.3       |           |          |          |              |             |            |
|               | 331              | 32            | 8.16   | 1720                 | 3.7       |           |          |          |              |             |            |
|               | 354              | 30            | 7.63*  | 1690                 | 3.8       |           |          |          |              |             |            |
|               | 410              | 26            | 6.59   | 1620                 | 4.1       |           |          |          |              |             |            |
|               | 482              | 22            | 5.60*  | 1550                 | 4.5       |           |          |          |              |             |            |
|               | 540              | 20            | 5.00*  | 1500                 | 4.9       |           |          |          |              |             |            |
|               | 632              | 17            | 4.27   | 1430                 | 5.2       |           |          |          |              |             |            |
|               | 675              | 16            | 4.00*  | 1410                 | 5.5       |           |          |          |              |             |            |
|               | 801              | 13            | 3.37   | 1340                 | 6.0       |           |          |          |              |             |            |
|               | 137              | 77            | 19.71  | 1150                 | 1.10      | R<br>RF   | 17<br>17 | DT<br>DT | 80N2<br>80N2 | 12<br>12    | 133<br>134 |
|               | 159              | 66            | 16.99  | 1140                 | 1.30      |           |          |          |              |             |            |
|               | 170              | 62            | 15.84  | 1140                 | 1.40      |           |          |          |              |             |            |
|               | 195              | 54            | 13.84  | 1120                 | 1.60      |           |          |          |              |             |            |
|               | 208              | 51            | 12.98  | 1120                 | 1.70      |           |          |          |              |             |            |
|               | 236              | 45            | 11.45  | 1100                 | 1.80      |           |          |          |              |             |            |
|               | 266              | 40            | 10.15  | 1080                 | 1.95      |           |          |          |              |             |            |
|               | 313              | 34            | 8.63   | 1050                 | 2.1       |           |          |          |              |             |            |
|               | 358              | 29            | 7.55   | 970                  | 1.90      |           |          |          |              |             |            |
|               | 384              | 27            | 7.04   | 960                  | 2.0       |           |          |          |              |             |            |
|               | 439              | 24            | 6.15   | 940                  | 2.3       |           |          |          |              |             |            |
|               | 468              | 22            | 5.76   | 930                  | 2.4       |           |          |          |              |             |            |
|               | 531              | 20            | 5.09   | 910                  | 2.6       |           |          |          |              |             |            |
|               | 599              | 18            | 4.51   | 880                  | 2.7       |           |          |          |              |             |            |
|               | 704              | 15            | 3.83   | 850                  | 3.0       | RX<br>RXF | 77<br>77 | DT<br>DT | 90S4<br>90S4 | 37<br>40    | 122<br>123 |
|               | 249              | 42            | 5.63   | 5680                 | 2.6       |           |          |          |              |             |            |
|               | 262              | 40            | 5.35*  | 5590                 | 2.6       |           |          |          |              |             |            |
|               | 296              | 36            | 4.73   | 5380                 | 3.5       | RX<br>RXF | 67<br>67 | DT<br>DT | 90L6<br>90L6 | 29<br>33    | 120<br>121 |
|               | 203              | 52            | 4.53   | 4130                 | 1.60      |           |          |          |              |             |            |
|               | 214              | 49            | 4.30*  | 4070                 | 1.65      |           |          |          |              |             |            |
|               | 244              | 43            | 3.77   | 3920                 | 2.0       | RX<br>RXF | 67<br>67 | DT<br>DT | 90S4<br>90S4 | 27<br>31    | 120<br>121 |
|               | 309              | 34            | 4.53   | 3660                 | 2.4       |           |          |          |              |             |            |
|               | 326              | 32            | 4.30*  | 3610                 | 2.5       |           |          |          |              |             |            |
|               | 371              | 28            | 3.77   | 3470                 | 3.1       |           |          |          |              |             |            |
|               | 438              | 24            | 3.20*  | 3300                 | 4.2       |           |          |          |              |             |            |
|               | 485              | 22            | 2.89   | 3200                 | 4.9       |           |          |          |              |             |            |
|               | 551              | 19            | 2.54   | 3070                 | 6.2       |           |          |          |              |             |            |
|               | 583              | 18            | 2.40*  | 3020                 | 6.8       |           |          |          |              |             |            |
|               | 685              | 15            | 2.04   | 2870                 | 8.8       |           |          |          |              |             |            |
|               | 754              | 14            | 1.86   | 2780                 | 9.1       |           |          |          |              |             |            |
|               | 870              | 12            | 1.61   | 2660                 | 9.4       |           |          |          |              |             |            |
|               | 1000             | 11            | 1.40*  | 2550                 | 9.9       |           |          |          |              |             |            |
|               | 243              | 43            | 3.79   | 3120                 | 1.60      | RX<br>RXF | 57<br>57 | DT<br>DT | 90L6<br>90L6 | 26<br>28    | 118<br>119 |
|               | 259              | 41            | 3.55*  | 3060                 | 1.70      |           |          |          |              |             |            |
|               | 293              | 36            | 3.14   | 2960                 | 1.80      |           |          |          |              |             |            |
|               | 316              | 33            | 2.91   | 2900                 | 2.0       |           |          |          |              |             |            |
|               | 348              | 30            | 2.64*  | 2820                 | 2.3       |           |          |          |              |             |            |

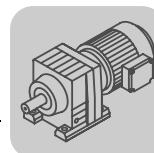


| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |                | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|----------------|------------|-------------------------------------------------------------------------------------|
| 1.1                    | 369                       | 28                     | 3.79   | 2780                                 | 2.4                | RX<br>RXF                                                                          | 57<br>57           | DT<br>DT | 90S4<br>90S4   | 24<br>26   | 118<br>119                                                                          |
|                        | 394                       | 27                     | 3.55*  | 2730                                 | 2.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 446                       | 24                     | 3.14   | 2630                                 | 2.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 481                       | 22                     | 2.91   | 2570                                 | 3.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 530                       | 20                     | 2.64*  | 2500                                 | 3.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 591                       | 18                     | 2.37   | 2420                                 | 3.9                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 686                       | 15                     | 2.04   | 2310                                 | 4.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 729                       | 14                     | 1.92*  | 2270                                 | 4.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 847                       | 12                     | 1.65   | 2160                                 | 5.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 948                       | 11                     | 1.48   | 2090                                 | 6.1                |                                                                                    |                    |          |                |            |                                                                                     |
| 1075                   | 9.8                       | 1.30                   | 2010   | 6.4                                  |                    |                                                                                    |                    |          |                |            |                                                                                     |
| 1.5                    | 0.60                      | 21400                  | 2333   | 120000                               | 0.85               | R<br>RF                                                                            | 167 R97<br>167 R97 | DT<br>DT | 90L4<br>90L4   | 760<br>760 | 167<br>167                                                                          |
|                        | 0.68                      | 19000                  | 2085   | 120000                               | 0.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 0.75                      | 17000                  | 1877   | 120000                               | 1.05               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 0.84                      | 15100                  | 1670   | 120000                               | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 0.98                      | 13300                  | 1438   | 120000                               | 1.35               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.1                       | 11800                  | 1279   | 120000                               | 1.50               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.3                       | 10300                  | 1123   | 120000                               | 1.75               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.4                       | 9180                   | 999    | 120000                               | 1.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.3                       | 3920                   | 426    | 73600                                | 3.3                | R<br>RF                                                                            | 147 R87<br>147 R87 | DT<br>DT | 90L4<br>90L4   | 450<br>460 | 167<br>167                                                                          |
|                        | 3.8                       | 3380                   | 368    | 73800                                | 3.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 0.83                      | 15900                  | 1705   | 37900                                | 0.80               | R<br>RF                                                                            | 147 R77<br>147 R77 | DT<br>DT | 90L4<br>90L4   | 430<br>440 | 167<br>167                                                                          |
|                        | 0.92                      | 14300                  | 1536   | 58600                                | 0.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.1                       | 12400                  | 1329   | 63900                                | 1.05               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.2                       | 10800                  | 1166   | 66500                                | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.4                       | 9530                   | 1029   | 68400                                | 1.35               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.6                       | 8250                   | 889    | 70000                                | 1.60               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.8                       | 7260                   | 784    | 71100                                | 1.80               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.0                       | 6420                   | 695    | 71900                                | 2.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.3                       | 5780                   | 619    | 72400                                | 2.3                | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 90L4<br>90L4   | 290<br>315 | 167<br>167                                                                          |
|                        | 2.5                       | 5200                   | 558    | 72800                                | 2.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.4                       | 9770                   | 1043   | 38800                                | 0.80               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.6                       | 8290                   | 888    | 52700                                | 0.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.0                       | 6500                   | 699    | 56200                                | 1.25               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.3                       | 5640                   | 609    | 57600                                | 1.40               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.3                       | 10200                  | 1090   | 26100                                | 0.80               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.5                       | 8940                   | 951    | 49900                                | 0.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.7                       | 7750                   | 831    | 53900                                | 1.05               | R<br>RF                                                                            | 137 R77<br>137 R77 | DT<br>DT | 90L4<br>90L4   | 300<br>320 | 167<br>167                                                                          |
|                        | 1.9                       | 6770                   | 730    | 55800                                | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.2                       | 5800                   | 629    | 57300                                | 1.40               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.5                       | 5230                   | 560    | 58100                                | 1.55               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.9                       | 4530                   | 490    | 59000                                | 1.75               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.3                       | 3950                   | 428    | 59600                                | 2.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.7                       | 3560                   | 381    | 59900                                | 2.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.4                       | 3020                   | 323    | 60300                                | 2.7                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.7                       | 4900                   | 528    | 18500                                | 0.90               | R<br>RF                                                                            | 107 R77<br>107 R77 | DT<br>DT | 90L4<br>90L4   | 205<br>215 | 167<br>167                                                                          |
|                        | 2.6                       | 5030                   | 544    | 10400                                | 0.85               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.9                       | 4550                   | 492    | 28100                                | 0.95               | R<br>RF                                                                            | 107 R77<br>107 R77 | DT<br>DT | 90L4<br>90L4   | 210<br>220 | 167<br>167                                                                          |
|                        | 3.4                       | 3850                   | 417    | 31700                                | 1.10               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.8                       | 3440                   | 369    | 33400                                | 1.25               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.4                       | 3000                   | 323    | 34900                                | 1.45               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.0                       | 4470                   | 469    | 28500                                | 0.95               | R<br>RF                                                                            | 107 R77<br>107 R77 | DT<br>DT | 90L4<br>90L4   | 205<br>210 | 167<br>167                                                                          |
|                        | 4.2                       | 3170                   | 336    | 11300                                | 0.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.8                       | 2790                   | 296    | 22400                                | 1.10               | R<br>RF                                                                            | 97 R57<br>97 R57   | DT<br>DT | 90L4<br>90L4   | 140<br>155 | 167<br>167                                                                          |
|                        | 5.7                       | 2330                   | 249    | 24900                                | 1.30               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 6.0                       | 2180                   | 234    | 25600                                | 1.40               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 6.8                       | 1950                   | 209    | 26600                                | 1.55               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.0                       | 4710                   | 229.95 | 26500                                | 0.90               | R<br>RF                                                                            | 107<br>107         | DV<br>DV | 112M8<br>112M8 | 190<br>195 | 159<br>160                                                                          |
|                        | 3.5                       | 4160                   | 203.16 | 30200                                | 1.05               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.1                       | 3530                   | 172.34 | 33100                                | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.4                       | 3250                   | 158.68 | 34100                                | 1.30               |                                                                                    |                    |          |                |            |                                                                                     |

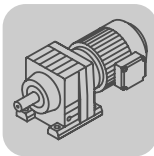


# R..DR/DT/DV R..D.. [kW]

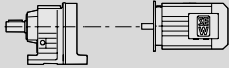
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |         |            |          |                | m<br>[kg] |     |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|---------|------------|----------|----------------|-----------|-----|
| 1.5                    | 3.7                       | 3910                   | 251.15  | 31400                                | 1.10               | R<br>RF | 107<br>107 | DV<br>DV | 100M6<br>100M6 | 180       | 159 |
|                        | 4.0                       | 3580                   | 229.95  | 32900                                | 1.20               |         |            |          |                | 185       | 160 |
|                        | 4.5                       | 3160                   | 203.16  | 34400                                | 1.35               |         |            |          |                |           |     |
|                        | 5.3                       | 2680                   | 172.34  | 35900                                | 1.60               |         |            |          |                |           |     |
|                        | 5.8                       | 2470                   | 158.68  | 36200                                | 1.75               |         |            |          |                |           |     |
|                        | 6.5                       | 2210                   | 141.83  | 36500                                | 1.95               | R<br>RF | 97<br>97   | DT<br>DT | 90L4<br>90L4   | 115       | 157 |
|                        | 5.5                       | 2600                   | 255.71  | 23500                                | 1.15               |         |            |          |                | 130       | 158 |
|                        | 5.8                       | 2450                   | 241.25  | 24300                                | 1.20               |         |            |          |                |           |     |
|                        | 6.5                       | 2200                   | 216.28  | 25600                                | 1.35               |         |            |          |                |           |     |
|                        | 7.6                       | 1890                   | 186.30  | 26800                                | 1.60               |         |            |          |                |           |     |
|                        | 8.3                       | 1730                   | 170.02  | 27300                                | 1.75               | R<br>RF | 87<br>87   | DT<br>DT | 90L4<br>90L4   | 74        | 154 |
|                        | 9.3                       | 1530                   | 150.78  | 27600                                | 1.95               |         |            |          |                | 81        | 155 |
|                        | 11                        | 1290                   | 126.75  | 27900                                | 2.3                |         |            |          |                |           |     |
|                        | 12                        | 1180                   | 116.48  | 28000                                | 2.5                |         |            |          |                |           |     |
|                        | 14                        | 1050                   | 103.44  | 28200                                | 2.9                |         |            |          |                |           |     |
|                        | 15                        | 940                    | 92.48   | 28300                                | 3.2                | R<br>RF | 87<br>87   | DT<br>DT | 90L4<br>90L4   | 74        | 154 |
|                        | 7.8                       | 1850                   | 181.77  | 11400                                | 0.85               |         |            |          |                | 81        | 155 |
|                        | 9.1                       | 1580                   | 155.34  | 16700                                | 1.00               |         |            |          |                |           |     |
|                        | 9.9                       | 1450                   | 142.41  | 17600                                | 1.05               |         |            |          |                |           |     |
|                        | 11                        | 1270                   | 124.97  | 18600                                | 1.20               |         |            |          |                |           |     |
|                        | 12                        | 1200                   | 118.43* | 19000                                | 1.30               | R<br>RF | 87<br>87   | DT<br>DT | 90L4<br>90L4   | 74        | 154 |
|                        | 14                        | 1050                   | 103.65  | 19600                                | 1.45               |         |            |          |                | 81        | 155 |
|                        | 15                        | 950                    | 93.38   | 20000                                | 1.65               |         |            |          |                |           |     |
|                        | 17                        | 830                    | 81.92   | 20000                                | 1.85               |         |            |          |                |           |     |
|                        | 19                        | 735                    | 72.57   | 20000                                | 2.1                |         |            |          |                |           |     |
|                        | 22                        | 645                    | 63.68*  | 20000                                | 2.4                | R<br>RF | 77<br>77   | DT<br>DT | 90L4<br>90L4   | 48        | 151 |
|                        | 23                        | 615                    | 60.35*  | 20000                                | 2.5                |         |            |          |                | 54        | 152 |
|                        | 27                        | 535                    | 52.82   | 20000                                | 2.9                |         |            |          |                |           |     |
|                        | 30                        | 485                    | 47.58   | 20000                                | 3.2                |         |            |          |                |           |     |
|                        | 34                        | 425                    | 41.74   | 20000                                | 3.7                |         |            |          |                |           |     |
|                        | 38                        | 375                    | 36.84*  | 19600                                | 4.1                | R<br>RF | 77<br>77   | DT<br>DT | 90L4<br>90L4   | 47        | 151 |
|                        | 15                        | 940                    | 92.97   | 8500                                 | 0.85               |         |            |          |                | 53        | 152 |
|                        | 17                        | 830                    | 81.80   | 9820                                 | 1.00               |         |            |          |                |           |     |
|                        | 18                        | 785                    | 77.24   | 10200                                | 1.05               |         |            |          |                |           |     |
|                        | 21                        | 670                    | 65.77   | 11100                                | 1.25               |         |            |          |                |           |     |
|                        | 24                        | 585                    | 57.68   | 11600                                | 1.40               | R<br>RF | 67<br>67   | DT<br>DT | 90L4<br>90L4   | 42        | 148 |
|                        | 27                        | 530                    | 52.07   | 11900                                | 1.55               |         |            |          |                | 45        | 149 |
|                        | 31                        | 465                    | 45.81   | 12200                                | 1.75               |         |            |          |                |           |     |
|                        | 33                        | 440                    | 43.26   | 12300                                | 1.85               |         |            |          |                |           |     |
|                        | 38                        | 375                    | 36.83   | 12600                                | 2.2                |         |            |          |                |           |     |
|                        | 42                        | 340                    | 33.47   | 12700                                | 2.4                | R<br>RF | 67<br>67   | DT<br>DT | 90L4<br>90L4   | 41        | 148 |
|                        | 49                        | 295                    | 29.00   | 12500                                | 2.8                |         |            |          |                | 44        | 149 |
|                        | 56                        | 255                    | 25.23   | 12000                                | 3.0                |         |            |          |                |           |     |
|                        | 60                        | 240                    | 23.37   | 11800                                | 3.5                |         |            |          |                |           |     |
|                        | 66                        | 220                    | 21.43   | 11500                                | 3.8                |         |            |          |                |           |     |
|                        | 75                        | 191                    | 18.80   | 11000                                | 4.1                | R<br>RF | 57<br>57   | DT<br>DT | 90L4<br>90L4   | 36        | 145 |
|                        | 23                        | 620                    | 61.26   | 7280                                 | 0.95               |         |            |          |                | 39        | 146 |
|                        | 25                        | 580                    | 56.89   | 7810                                 | 1.05               |         |            |          |                |           |     |
|                        | 27                        | 525                    | 51.56   | 8370                                 | 1.15               |         |            |          |                |           |     |
|                        | 30                        | 470                    | 46.29   | 8830                                 | 1.30               |         |            |          |                |           |     |
|                        | 35                        | 405                    | 39.88*  | 9300                                 | 1.45               | R<br>RF | 57<br>57   | DT<br>DT | 90L4<br>90L4   | 36        | 145 |
|                        | 38                        | 380                    | 37.50   | 9460                                 | 1.50               |         |            |          |                | 39        | 146 |
|                        | 44                        | 330                    | 32.27   | 9750                                 | 1.65               |         |            |          |                |           |     |
|                        | 49                        | 295                    | 28.83   | 9920                                 | 1.80               |         |            |          |                |           |     |
|                        | 50                        | 285                    | 28.13   | 9950                                 | 1.90               |         |            |          |                |           |     |
|                        | 53                        | 270                    | 26.72   | 9850                                 | 2.0                | R<br>RF | 57<br>57   | DT<br>DT | 90L4<br>90L4   | 36        | 145 |
|                        | 60                        | 240                    | 23.44   | 9500                                 | 2.4                |         |            |          |                | 39        | 146 |
|                        | 71                        | 200                    | 19.89   | 9070                                 | 3.0                |         |            |          |                |           |     |
|                        | 79                        | 182                    | 17.95   | 8810                                 | 3.2                |         |            |          |                |           |     |
|                        | 27                        | 540                    | 53.22   | 5140                                 | 0.85               |         |            |          |                |           |     |
|                        | 29                        | 490                    | 48.23   | 6010                                 | 0.90               | R<br>RF | 57<br>57   | DT<br>DT | 90L4<br>90L4   | 36        | 145 |
|                        | 33                        | 440                    | 43.30   | 5920                                 | 1.00               |         |            |          |                | 39        | 146 |
|                        | 38                        | 380                    | 37.30*  | 5770                                 | 1.20               |         |            |          |                |           |     |
|                        | 40                        | 355                    | 35.07   | 5710                                 | 1.25               |         |            |          |                |           |     |
|                        | 47                        | 305                    | 30.18   | 5540                                 | 1.45               |         |            |          |                |           |     |
|                        | 52                        | 275                    | 26.97   | 5420                                 | 1.65               |         |            |          |                |           |     |

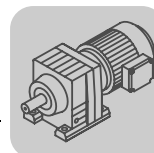


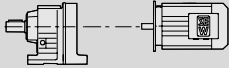
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |         |          |          |              | m<br>[kg] |     |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|---------|----------|----------|--------------|-----------|-----|
| 1.5                    | 54                        | 265                    | 26.31  | 5390                                 | 1.70               | R<br>RF | 57<br>57 | DT<br>DT | 90L4<br>90L4 | 35        | 145 |
|                        | 56                        | 255                    | 24.99* | 5330                                 | 1.75               |         |          |          |              | 38        | 146 |
|                        | 64                        | 225                    | 21.93  | 5170                                 | 2.0                |         |          |          |              |           |     |
|                        | 76                        | 189                    | 18.60* | 4980                                 | 2.4                |         |          |          |              |           |     |
|                        | 84                        | 171                    | 16.79  | 4850                                 | 2.6                |         |          |          |              |           |     |
|                        | 95                        | 150                    | 14.77* | 4700                                 | 2.9                |         |          |          |              |           |     |
|                        | 101                       | 142                    | 13.95* | 4630                                 | 3.0                |         |          |          |              |           |     |
|                        | 119                       | 121                    | 11.88  | 4440                                 | 3.4                |         |          |          |              |           |     |
|                        | 38                        | 375                    | 36.93  | 2380                                 | 0.80               | R<br>RF | 47<br>47 | DT<br>DT | 90L4<br>90L4 | 30        | 142 |
|                        | 41                        | 355                    | 34.73  | 3840                                 | 0.85               |         |          |          |              | 30        | 143 |
|                        | 47                        | 305                    | 29.88  | 4220                                 | 1.00               |         |          |          |              |           |     |
|                        | 53                        | 270                    | 26.70  | 4140                                 | 1.10               |         |          |          |              |           |     |
|                        | 60                        | 240                    | 23.59  | 4050                                 | 1.25               |         |          |          |              |           |     |
|                        | 61                        | 235                    | 23.28  | 4040                                 | 1.25               | R<br>RF | 47<br>47 | DT<br>DT | 90L4<br>90L4 | 30        | 142 |
|                        | 65                        | 220                    | 21.81  | 3990                                 | 1.35               |         |          |          |              | 30        | 143 |
|                        | 73                        | 196                    | 19.27  | 3890                                 | 1.50               |         |          |          |              |           |     |
|                        | 79                        | 182                    | 17.89  | 3830                                 | 1.60               |         |          |          |              |           |     |
|                        | 87                        | 165                    | 16.22  | 3740                                 | 1.65               |         |          |          |              |           |     |
|                        | 97                        | 148                    | 14.56  | 3650                                 | 1.80               |         |          |          |              |           |     |
|                        | 112                       | 127                    | 12.54  | 3520                                 | 1.95               |         |          |          |              |           |     |
|                        | 120                       | 120                    | 11.79  | 3470                                 | 2.1                |         |          |          |              |           |     |
|                        | 139                       | 103                    | 10.15  | 3340                                 | 2.2                |         |          |          |              |           |     |
|                        | 155                       | 92                     | 9.07   | 3240                                 | 2.4                |         |          |          |              |           |     |
|                        | 176                       | 81                     | 8.01   | 3140                                 | 2.5                |         |          |          |              |           |     |
|                        | 182                       | 79                     | 7.76*  | 3060                                 | 2.1                |         |          |          |              |           |     |
|                        | 203                       | 71                     | 6.96   | 2980                                 | 2.3                |         |          |          |              |           |     |
|                        | 235                       | 61                     | 6.00   | 2860                                 | 2.6                |         |          |          |              |           |     |
|                        | 250                       | 57                     | 5.64*  | 2810                                 | 2.7                |         |          |          |              |           |     |
|                        | 291                       | 49                     | 4.85   | 2700                                 | 3.0                |         |          |          |              |           |     |
|                        | 325                       | 44                     | 4.34   | 2610                                 | 3.3                |         |          |          |              |           |     |
|                        | 368                       | 39                     | 3.83   | 2520                                 | 3.7                |         |          |          |              |           |     |
|                        | 73                        | 196                    | 19.31  | 2660                                 | 1.00               | R<br>RF | 37<br>37 | DT<br>DT | 90L4<br>90L4 | 25        | 139 |
|                        | 78                        | 183                    | 18.05  | 2840                                 | 1.10               |         |          |          |              | 27        | 140 |
|                        | 90                        | 159                    | 15.60  | 3160                                 | 1.25               |         |          |          |              |           |     |
|                        | 106                       | 135                    | 13.25  | 3350                                 | 1.40               | R<br>RF | 37<br>37 | DT<br>DT | 90L4<br>90L4 | 25        | 139 |
|                        | 119                       | 120                    | 11.83  | 3270                                 | 1.50               |         |          |          |              | 27        | 140 |
|                        | 140                       | 103                    | 10.11  | 3160                                 | 1.65               |         |          |          |              |           |     |
|                        | 149                       | 96                     | 9.47   | 3110                                 | 1.75               |         |          |          |              |           |     |
|                        | 177                       | 81                     | 7.97   | 2980                                 | 1.95               |         |          |          |              |           |     |
|                        | 211                       | 68                     | 6.67   | 2820                                 | 2.1                |         |          |          |              |           |     |
|                        | 249                       | 58                     | 5.67   | 2710                                 | 2.5                |         |          |          |              |           |     |
|                        | 279                       | 51                     | 5.06   | 2630                                 | 2.6                |         |          |          |              |           |     |
|                        | 326                       | 44                     | 4.32   | 2520                                 | 2.9                |         |          |          |              |           |     |
|                        | 348                       | 41                     | 4.05   | 2470                                 | 3.0                |         |          |          |              |           |     |
|                        | 414                       | 35                     | 3.41   | 2360                                 | 3.2                |         |          |          |              |           |     |
|                        | 211                       | 68                     | 13.25  | 2850                                 | 2.8                | R<br>RF | 37<br>37 | DT<br>DT | 90S2<br>90S2 | 24        | 139 |
|                        | 237                       | 61                     | 11.83  | 2770                                 | 3.0                |         |          |          |              | 25        | 140 |
|                        | 277                       | 52                     | 10.11  | 2650                                 | 3.3                |         |          |          |              |           |     |
|                        | 296                       | 48                     | 9.47   | 2610                                 | 3.5                |         |          |          |              |           |     |
|                        | 351                       | 41                     | 7.97   | 2480                                 | 3.8                | R<br>RF | 27<br>27 | DT<br>DT | 90L4<br>90L4 | 19        | 136 |
|                        | 90                        | 159                    | 15.63  | 1700                                 | 0.80               |         |          |          |              | 19        | 137 |
|                        | 106                       | 135                    | 13.28* | 2020                                 | 0.95               |         |          |          |              |           |     |
|                        | 119                       | 121                    | 11.86  | 2080                                 | 1.05               |         |          |          |              |           |     |
|                        | 139                       | 103                    | 10.13  | 2030                                 | 1.20               |         |          |          |              |           |     |
|                        | 173                       | 83                     | 8.16   | 1880                                 | 1.40               |         |          |          |              |           |     |
|                        | 185                       | 78                     | 7.63*  | 1860                                 | 1.45               |         |          |          |              |           |     |
|                        | 214                       | 67                     | 6.59   | 1810                                 | 1.60               |         |          |          |              |           |     |
|                        | 252                       | 57                     | 5.60*  | 1750                                 | 1.75               |         |          |          |              |           |     |
|                        | 282                       | 51                     | 5.00*  | 1710                                 | 1.85               |         |          |          |              |           |     |
|                        | 330                       | 43                     | 4.27   | 1650                                 | 2.0                |         |          |          |              |           |     |
|                        | 353                       | 41                     | 4.00*  | 1630                                 | 2.1                |         |          |          |              |           |     |
|                        | 418                       | 34                     | 3.37   | 1560                                 | 2.3                |         |          |          |              |           |     |

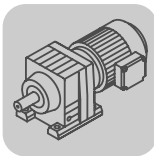


# R..DR/DT/DV R..D.. [kW]

| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |                | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|----------------|------------|-------------------------------------------------------------------------------------|
| 1.5                    | 236                       | 61                     | 11.86 | 1820                                 | 2.1                | R<br>RF                                                                            | 27<br>27           | DT<br>DT | 90S2<br>90S2   | 18<br>18   | 136<br>137                                                                          |
|                        | 276                       | 52                     | 10.13 | 1760                                 | 2.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 343                       | 42                     | 8.16  | 1640                                 | 2.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 367                       | 39                     | 7.63* | 1610                                 | 2.9                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 425                       | 34                     | 6.59  | 1550                                 | 3.2                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 500                       | 29                     | 5.60* | 1490                                 | 3.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 560                       | 26                     | 5.00* | 1450                                 | 3.7                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 656                       | 22                     | 4.27  | 1390                                 | 4.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 700                       | 21                     | 4.00* | 1360                                 | 4.2                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 831                       | 17                     | 3.37  | 1300                                 | 4.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 250                       | 57                     | 5.63  | 5580                                 | 1.90               | RX<br>RXF                                                                          | 77<br>77           | DT<br>DT | 90L4<br>90L4   | 38<br>41   | 122<br>123                                                                          |
|                        | 264                       | 54                     | 5.35* | 5490                                 | 1.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 298                       | 48                     | 4.73  | 5300                                 | 2.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 349                       | 41                     | 4.04* | 5050                                 | 3.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 381                       | 38                     | 3.70  | 4920                                 | 4.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 434                       | 33                     | 3.25* | 4720                                 | 5.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 458                       | 31                     | 3.08* | 4650                                 | 6.2                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 523                       | 27                     | 2.70  | 4460                                 | 7.9                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 581                       | 25                     | 2.43  | 4310                                 | 8.7                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 312                       | 46                     | 4.53  | 3570                                 | 1.80               | RX<br>RXF                                                                          | 67<br>67           | DT<br>DT | 90L4<br>90L4   | 29<br>33   | 120<br>121                                                                          |
|                        | 328                       | 44                     | 4.30* | 3520                                 | 1.85               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 374                       | 38                     | 3.77  | 3390                                 | 2.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 441                       | 33                     | 3.20* | 3230                                 | 3.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 488                       | 29                     | 2.89  | 3140                                 | 3.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 555                       | 26                     | 2.54  | 3020                                 | 4.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 588                       | 24                     | 2.40* | 2970                                 | 5.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 690                       | 21                     | 2.04  | 2820                                 | 6.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 759                       | 19                     | 1.86  | 2740                                 | 6.7                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 876                       | 16                     | 1.61  | 2620                                 | 7.0                | RX<br>RXF                                                                          | 57<br>57           | DT<br>DT | 90L4<br>90L4   | 26<br>28   | 118<br>119                                                                          |
|                        | 1005                      | 14                     | 1.40* | 2510                                 | 7.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 372                       | 39                     | 3.79  | 2700                                 | 1.80               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 397                       | 36                     | 3.55* | 2650                                 | 1.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 450                       | 32                     | 3.14  | 2560                                 | 2.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 484                       | 30                     | 2.91  | 2510                                 | 2.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 534                       | 27                     | 2.64* | 2440                                 | 2.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 595                       | 24                     | 2.37  | 2360                                 | 2.9                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 691                       | 21                     | 2.04  | 2260                                 | 3.3                |                                                                                    |                    |          |                |            |                                                                                     |
| 2.2                    | 734                       | 20                     | 1.92* | 2220                                 | 3.5                | R<br>RF                                                                            | 167 R97<br>167 R97 | DV<br>DV | 100M4<br>100M4 | 770<br>770 | 167<br>167                                                                          |
|                        | 853                       | 17                     | 1.65  | 2120                                 | 4.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 955                       | 15                     | 1.48  | 2050                                 | 4.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1080                      | 13                     | 1.30  | 1980                                 | 4.7                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.6                       | 7200                   | 533   | 71100                                | 1.80               | R<br>RF                                                                            | 147 R87<br>147 R87 | DV<br>DV | 100M4<br>100M4 | 460<br>465 | 167<br>167                                                                          |
|                        | 3.1                       | 6190                   | 462   | 72100                                | 2.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.3                       | 5820                   | 426   | 72400                                | 2.2                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.8                       | 5030                   | 368   | 72900                                | 2.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.3                       | 4450                   | 326   | 73300                                | 2.9                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.2                       | 16000                  | 1166  | 36000                                | 0.80               | R<br>RF                                                                            | 147 R77<br>147 R77 | DV<br>DV | 100M4<br>100M4 | 435<br>445 | 167<br>167                                                                          |
|                        | 1.4                       | 14100                  | 1029  | 60300                                | 0.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.6                       | 12200                  | 889   | 64200                                | 1.05               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.8                       | 10800                  | 784   | 66600                                | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.0                       | 9520                   | 695   | 68500                                | 1.35               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.3                       | 8550                   | 619   | 69700                                | 1.50               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.5                       | 7690                   | 558   | 70600                                | 1.70               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.9                       | 6730                   | 489   | 71600                                | 1.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.0                       | 9620                   | 699   | 41800                                | 0.85               | R<br>RF                                                                            | 137 R77<br>137 R77 | DV<br>DV | 100M4<br>100M4 | 295<br>320 | 167<br>167                                                                          |
|                        | 2.3                       | 8350                   | 609   | 52500                                | 0.95               |                                                                                    |                    |          |                |            |                                                                                     |

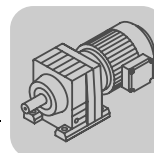


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                    |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|--------------------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 2.2           | 1.9              | 10000         | 730     | 33300                | 0.80      | R<br>RF                                                                            | 137 R77<br>137 R77 | DV<br>DV | 100M4<br>100M4 | 305         | 167                                                                                 |
|               | 2.2              | 8610          | 629     | 51400                | 0.95      |                                                                                    |                    |          |                | 330         | 167                                                                                 |
|               | 2.5              | 7730          | 560     | 54000                | 1.05      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 2.9              | 6720          | 490     | 55900                | 1.20      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 3.3              | 5860          | 428     | 57200                | 1.35      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 3.7              | 5260          | 381     | 58100                | 1.50      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 4.4              | 4460          | 323     | 59000                | 1.80      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 4.8              | 4020          | 291     | 59500                | 2.0       | R<br>RF                                                                            | 107 R77<br>107 R77 | DV<br>DV | 100M4<br>100M4 | 220         | 167                                                                                 |
|               | 5.5              | 3510          | 255     | 59900                | 2.3       |                                                                                    |                    |          |                | 225         | 167                                                                                 |
|               | 6.3              | 3070          | 223     | 60300                | 2.6       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 4.4              | 4450          | 323     | 28600                | 0.95      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 4.9              | 3920          | 285     | 31400                | 1.10      | R<br>RF                                                                            | 107 R77<br>107 R77 | DV<br>DV | 100M4<br>100M4 | 215         | 167                                                                                 |
|               | 5.6              | 3470          | 253     | 33300                | 1.25      |                                                                                    |                    |          |                | 220         | 167                                                                                 |
|               | 6.6              | 2940          | 214     | 35100                | 1.45      | R<br>RF                                                                            | 107 R77<br>107 R77 | DV<br>DV | 100M4<br>100M4 | 145         | 167                                                                                 |
|               | 4.4              | 4540          | 325     | 28100                | 0.95      |                                                                                    |                    |          |                | 165         | 167                                                                                 |
|               | 6.8              | 2880          | 209     | 21800                | 1.05      | R<br>RF                                                                            | 97 R57<br>97 R57   | DV<br>DV | 100M4<br>100M4 |             |                                                                                     |
|               | 3.1              | 6680          | 222.60* | 55900                | 1.20      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 3.7              | 5660          | 188.45  | 57500                | 1.40      | R<br>RF                                                                            | 137<br>137         | DV<br>DV | 132S8<br>132S8 | 295         | 161                                                                                 |
|               | 4.0              | 5230          | 174.40* | 58100                | 1.55      |                                                                                    |                    |          |                | 320         | 162                                                                                 |
|               | 4.5              | 4690          | 156.31  | 58800                | 1.70      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 5.0              | 4240          | 141.12* | 59300                | 1.90      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 5.5              | 3850          | 128.18  | 59600                | 2.1       | R<br>RF                                                                            | 137<br>137         | DV<br>DV | 132S8<br>132S8 | 295         | 161                                                                                 |
|               | 6.2              | 3410          | 113.72  | 60000                | 2.3       |                                                                                    |                    |          |                | 320         | 162                                                                                 |
|               | 6.8              | 3100          | 103.20* | 60300                | 2.6       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 4.6              | 4540          | 203.16  | 28100                | 0.95      | R<br>RF                                                                            | 107<br>107         | DV<br>DV | 112M6<br>112M6 | 190         | 159                                                                                 |
|               | 5.5              | 3850          | 172.34  | 31700                | 1.10      |                                                                                    |                    |          |                | 195         | 160                                                                                 |
|               | 5.9              | 3550          | 158.68  | 33000                | 1.20      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 6.6              | 3170          | 141.83  | 34400                | 1.35      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 5.6              | 3740          | 251.15  | 32200                | 1.15      | R<br>RF                                                                            | 107<br>107         | DV<br>DV | 100M4<br>100M4 | 180         | 159                                                                                 |
|               | 6.1              | 3430          | 229.95  | 33500                | 1.25      |                                                                                    |                    |          |                | 185         | 160                                                                                 |
|               | 6.9              | 3030          | 203.16  | 34900                | 1.40      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 8.2              | 2570          | 172.34  | 36100                | 1.65      | R<br>RF                                                                            | 107<br>107         | DV<br>DV | 100M4<br>100M4 | 180         | 159                                                                                 |
|               | 8.9              | 2360          | 158.68  | 36300                | 1.80      |                                                                                    |                    |          |                | 185         | 160                                                                                 |
|               | 9.9              | 2110          | 141.83  | 36600                | 2.0       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 11               | 1900          | 127.68  | 36900                | 2.3       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 12               | 1720          | 115.63  | 37000                | 2.5       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 14               | 1530          | 102.53  | 37200                | 2.8       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 15               | 1380          | 92.70   | 37300                | 3.1       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 6.5              | 3220          | 216.28  | 7030                 | 0.95      | R<br>RF                                                                            | 97<br>97           | DV<br>DV | 100M4<br>100M4 | 125         | 157                                                                                 |
|               | 7.6              | 2780          | 186.30  | 22500                | 1.10      |                                                                                    |                    |          |                | 140         | 158                                                                                 |
|               | 8.3              | 2530          | 170.02  | 23900                | 1.20      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 9.3              | 2250          | 150.78  | 25300                | 1.35      | R<br>RF                                                                            | 97<br>97           | DV<br>DV | 100M4<br>100M4 | 125         | 157                                                                                 |
|               | 11               | 1890          | 126.75  | 26800                | 1.60      |                                                                                    |                    |          |                | 140         | 158                                                                                 |
|               | 12               | 1740          | 116.48  | 27300                | 1.75      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 14               | 1540          | 103.44  | 27600                | 1.95      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 15               | 1380          | 92.48   | 27800                | 2.2       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 17               | 1240          | 83.15   | 28000                | 2.4       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 20               | 1080          | 72.17   | 28200                | 2.8       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 22               | 970           | 65.21   | 27700                | 3.1       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 24               | 890           | 59.92   | 27000                | 3.4       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 27               | 795           | 53.21   | 26100                | 3.8       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 30               | 710           | 47.58   | 25300                | 4.2       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 11               | 1860          | 124.97  | 10100                | 0.85      | R<br>RF                                                                            | 87<br>87           | DV<br>DV | 100M4<br>100M4 | 82          | 154                                                                                 |
|               | 12               | 1760          | 118.43* | 15200                | 0.90      |                                                                                    |                    |          |                | 89          | 155                                                                                 |
|               | 14               | 1540          | 103.65  | 17000                | 1.00      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 15               | 1390          | 93.38   | 17900                | 1.10      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 17               | 1220          | 81.92   | 18900                | 1.25      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 19               | 1080          | 72.57   | 19500                | 1.45      | R<br>RF                                                                            | 87<br>87           | DV<br>DV | 100M4<br>100M4 | 82          | 154                                                                                 |
|               | 22               | 950           | 63.68*  | 20000                | 1.65      |                                                                                    |                    |          |                | 89          | 155                                                                                 |
|               | 23               | 900           | 60.35*  | 20000                | 1.70      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 27               | 785           | 52.82   | 20000                | 1.95      |                                                                                    |                    |          |                |             |                                                                                     |
|               | 30               | 710           | 47.58   | 20000                | 2.2       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 34               | 620           | 41.74   | 19900                | 2.5       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 38               | 550           | 36.84*  | 19200                | 2.8       |                                                                                    |                    |          |                |             |                                                                                     |
|               | 43               | 485           | 32.66*  | 18500                | 3.2       |                                                                                    |                    |          |                |             |                                                                                     |

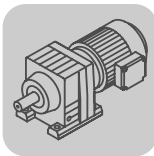


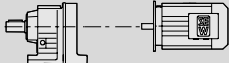
# R..DR/DT/DV R..D.. [kW]

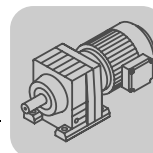
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |         |          |          |                | $m$<br>[kg] |     |
|---------------|------------------|---------------|--------|----------------------|-----------|---------|----------|----------|----------------|-------------|-----|
| 2.2           | 41               | 515           | 34.40* | 18800                | 2.9       | R<br>RF | 87<br>87 | DV<br>DV | 100M4<br>100M4 | 81          | 154 |
|               | 45               | 470           | 31.40  | 18300                | 3.3       |         |          |          |                | 88          | 155 |
|               | 51               | 415           | 27.84* | 17700                | 3.7       |         |          |          |                |             |     |
|               | 60               | 350           | 23.40  | 16800                | 4.5       |         |          |          |                |             |     |
|               | 66               | 320           | 21.51  | 16400                | 4.7       | R<br>RF | 77<br>77 | DV<br>DV | 100M4<br>100M4 | 55          | 151 |
|               | 21               | 980           | 65.77  | 5470                 | 0.85      |         |          |          |                | 61          | 152 |
|               | 24               | 860           | 57.68  | 9540                 | 0.95      |         |          |          |                |             |     |
|               | 27               | 775           | 52.07  | 10300                | 1.05      |         |          |          |                |             |     |
|               | 31               | 685           | 45.81  | 11000                | 1.20      | R<br>RF | 77<br>77 | DV<br>DV | 100M4<br>100M4 | 55          | 151 |
|               | 33               | 645           | 43.26  | 11300                | 1.25      |         |          |          |                | 61          | 152 |
|               | 38               | 550           | 36.83  | 11800                | 1.50      |         |          |          |                |             |     |
|               | 42               | 500           | 33.47  | 12100                | 1.65      |         |          |          |                |             |     |
|               | 49               | 430           | 29.00  | 12100                | 1.90      | R<br>RF | 77<br>77 | DV<br>DV | 100M4<br>100M4 | 54          | 151 |
|               | 56               | 375           | 25.23  | 11700                | 2.1       |         |          |          |                | 60          | 152 |
|               | 60               | 350           | 23.37  | 11400                | 2.4       |         |          |          |                |             |     |
|               | 66               | 320           | 21.43  | 11200                | 2.6       |         |          |          |                |             |     |
|               | 75               | 280           | 18.80  | 10800                | 2.8       | R<br>RF | 67<br>67 | DV<br>DV | 100M4<br>100M4 | 49          | 148 |
|               | 79               | 265           | 17.82* | 10600                | 2.9       |         |          |          |                | 52          | 149 |
|               | 90               | 230           | 15.60  | 10200                | 3.2       |         |          |          |                |             |     |
|               | 100              | 210           | 14.05  | 9910                 | 3.4       |         |          |          |                |             |     |
|               | 35               | 595           | 39.88* | 7630                 | 1.00      | R<br>RF | 67<br>67 | DV<br>DV | 100M4<br>100M4 | 48          | 148 |
|               | 38               | 560           | 37.50  | 8020                 | 1.00      |         |          |          |                | 51          | 149 |
|               | 44               | 480           | 32.27  | 8750                 | 1.10      |         |          |          |                |             |     |
|               | 49               | 430           | 28.83  | 9140                 | 1.20      |         |          |          |                |             |     |
|               | 60               | 350           | 23.44  | 9140                 | 1.60      | R<br>RF | 67<br>67 | DV<br>DV | 100M4<br>100M4 | 42          | 145 |
|               | 71               | 295           | 19.89  | 8760                 | 2.0       |         |          |          |                | 45          | 146 |
|               | 79               | 270           | 17.95  | 8530                 | 2.2       |         |          |          |                |             |     |
|               | 89               | 235           | 15.79  | 8240                 | 2.4       |         |          |          |                |             |     |
|               | 95               | 220           | 14.91  | 8110                 | 2.5       | R<br>RF | 57<br>57 | DV<br>DV | 100M4<br>100M4 | 35          | 145 |
|               | 111              | 189           | 12.70  | 7760                 | 2.8       |         |          |          |                | 38          | 146 |
|               | 122              | 172           | 11.54  | 7560                 | 2.9       |         |          |          |                |             |     |
|               | 141              | 149           | 10.00  | 7250                 | 3.2       |         |          |          |                |             |     |
|               | 162              | 130           | 8.70*  | 6960                 | 3.4       | R<br>RF | 57<br>57 | DT<br>DT | 90L2<br>90L2   |             |     |
|               | 181              | 116           | 7.79   | 6760                 | 3.3       |         |          |          |                |             |     |
|               | 38               | 555           | 37.30* | 4490                 | 0.80      |         |          |          |                |             |     |
|               | 40               | 525           | 35.07  | 5110                 | 0.85      | R<br>RF | 57<br>57 | DV<br>DV | 100M4<br>100M4 | 43          | 145 |
|               | 47               | 450           | 30.18  | 5030                 | 1.00      |         |          |          |                | 46          | 146 |
|               | 52               | 400           | 26.97  | 4960                 | 1.10      |         |          |          |                |             |     |
|               | 64               | 325           | 21.93  | 4800                 | 1.40      |         |          |          |                |             |     |
|               | 76               | 275           | 18.60* | 4660                 | 1.60      | R<br>RF | 57<br>57 | DV<br>DV | 100M4<br>100M4 | 42          | 145 |
|               | 84               | 250           | 16.79  | 4570                 | 1.80      |         |          |          |                | 45          | 146 |
|               | 95               | 220           | 14.77* | 4450                 | 2.0       |         |          |          |                |             |     |
|               | 101              | 210           | 13.95* | 4390                 | 2.1       |         |          |          |                |             |     |
|               | 119              | 177           | 11.88  | 4230                 | 2.3       | R<br>RF | 57<br>57 | DT<br>DT | 90L2<br>90L2   |             |     |
|               | 131              | 161           | 10.79  | 4140                 | 2.4       |         |          |          |                |             |     |
|               | 151              | 139           | 9.35   | 4000                 | 2.7       |         |          |          |                |             |     |
|               | 156              | 135           | 9.06   | 3980                 | 2.8       |         |          |          |                |             |     |
|               | 177              | 119           | 7.97   | 3850                 | 3.0       | R<br>RF | 57<br>57 | DT<br>DT | 90L2<br>90L2   |             |     |
|               | 107              | 197           | 26.31  | 4340                 | 2.3       |         |          |          |                |             |     |
|               | 112              | 187           | 24.99* | 4290                 | 2.4       |         |          |          |                |             |     |
|               | 128              | 164           | 21.93  | 4160                 | 2.8       |         |          |          |                |             |     |
|               | 151              | 139           | 18.60* | 3990                 | 3.2       | R<br>RF | 57<br>57 | DT<br>DT | 90L2<br>90L2   | 35          | 145 |
|               | 167              | 126           | 16.79  | 3890                 | 3.6       |         |          |          |                | 38          | 146 |
|               | 190              | 111           | 14.77* | 3760                 | 3.9       |         |          |          |                |             |     |
|               | 201              | 104           | 13.95* | 3710                 | 4.1       |         |          |          |                |             |     |



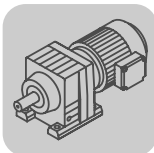
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |          |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|----------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 2.2           | 73               | 285           | 19.27  | 3550                 | 1.05      | R<br>RF                                                                            | 47<br>47 | DV<br>DV | 100M4<br>100M4 | 37<br>37    | 142<br>143                                                                          |
|               | 87               | 240           | 16.22  | 3460                 | 1.15      |                                                                                    |          |          |                |             |                                                                                     |
|               | 97               | 215           | 14.56  | 3400                 | 1.20      |                                                                                    |          |          |                |             |                                                                                     |
|               | 112              | 187           | 12.54  | 3310                 | 1.35      |                                                                                    |          |          |                |             |                                                                                     |
|               | 120              | 176           | 11.79  | 3270                 | 1.40      |                                                                                    |          |          |                |             |                                                                                     |
|               | 139              | 151           | 10.15  | 3160                 | 1.50      |                                                                                    |          |          |                |             |                                                                                     |
|               | 155              | 135           | 9.07   | 3090                 | 1.65      |                                                                                    |          |          |                |             |                                                                                     |
|               | 176              | 119           | 8.01   | 3000                 | 1.70      |                                                                                    |          |          |                |             |                                                                                     |
|               | 182              | 116           | 7.76*  | 2910                 | 1.40      |                                                                                    |          |          |                |             |                                                                                     |
|               | 203              | 104           | 6.96   | 2840                 | 1.55      |                                                                                    |          |          |                |             |                                                                                     |
|               | 235              | 89            | 6.00   | 2740                 | 1.75      |                                                                                    |          |          |                |             |                                                                                     |
|               | 250              | 84            | 5.64*  | 2700                 | 1.85      |                                                                                    |          |          |                |             |                                                                                     |
|               | 291              | 72            | 4.85   | 2600                 | 2.1       |                                                                                    |          |          |                |             |                                                                                     |
|               | 325              | 65            | 4.34   | 2530                 | 2.3       |                                                                                    |          |          |                |             |                                                                                     |
|               | 368              | 57            | 3.83   | 2440                 | 2.5       |                                                                                    |          |          |                |             |                                                                                     |
|               | 121              | 174           | 23.28  | 3260                 | 1.70      | R<br>RF                                                                            | 47<br>47 | DT<br>DT | 90L2<br>90L2   | 30<br>30    | 142<br>143                                                                          |
|               | 129              | 163           | 21.81  | 3220                 | 1.85      |                                                                                    |          |          |                |             |                                                                                     |
|               | 146              | 144           | 19.27  | 3130                 | 2.1       |                                                                                    |          |          |                |             |                                                                                     |
|               | 157              | 134           | 17.89  | 3080                 | 2.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 173              | 121           | 16.22  | 3010                 | 2.3       |                                                                                    |          |          |                |             |                                                                                     |
|               | 193              | 109           | 14.56  | 2930                 | 2.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 224              | 94            | 12.54  | 2830                 | 2.7       |                                                                                    |          |          |                |             |                                                                                     |
|               | 238              | 88            | 11.79  | 2780                 | 2.8       |                                                                                    |          |          |                |             |                                                                                     |
|               | 277              | 76            | 10.15  | 2680                 | 3.0       |                                                                                    |          |          |                |             |                                                                                     |
|               | 310              | 68            | 9.07   | 2600                 | 3.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 351              | 60            | 8.01   | 2510                 | 3.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 90               | 230           | 15.60  | 1070                 | 0.85      | R<br>RF                                                                            | 37<br>37 | DV<br>DV | 100M4<br>100M4 | 31<br>33    | 139<br>140                                                                          |
|               | 106              | 198           | 13.25  | 1660                 | 0.95      |                                                                                    |          |          |                |             |                                                                                     |
|               | 119              | 176           | 11.83  | 1990                 | 1.05      |                                                                                    |          |          |                |             |                                                                                     |
|               | 140              | 151           | 10.11  | 2360                 | 1.15      | R<br>RF                                                                            | 37<br>37 | DV<br>DV | 100M4<br>100M4 | 31<br>33    | 139<br>140                                                                          |
|               | 149              | 141           | 9.47   | 2480                 | 1.20      |                                                                                    |          |          |                |             |                                                                                     |
|               | 177              | 119           | 7.97   | 2750                 | 1.30      |                                                                                    |          |          |                |             |                                                                                     |
|               | 211              | 99            | 6.67   | 2470                 | 1.45      |                                                                                    |          |          |                |             |                                                                                     |
|               | 249              | 84            | 5.67   | 2570                 | 1.70      |                                                                                    |          |          |                |             |                                                                                     |
|               | 279              | 75            | 5.06   | 2500                 | 1.80      |                                                                                    |          |          |                |             |                                                                                     |
|               | 326              | 64            | 4.32   | 2410                 | 1.95      |                                                                                    |          |          |                |             |                                                                                     |
|               | 348              | 60            | 4.05   | 2370                 | 2.0       |                                                                                    |          |          |                |             |                                                                                     |
|               | 414              | 51            | 3.41   | 2270                 | 2.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 146              | 144           | 19.31  | 2440                 | 1.40      | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 90L2<br>90L2   | 25<br>27    | 139<br>140                                                                          |
|               | 156              | 135           | 18.05  | 2560                 | 1.50      |                                                                                    |          |          |                |             |                                                                                     |
|               | 180              | 117           | 15.60  | 2780                 | 1.70      |                                                                                    |          |          |                |             |                                                                                     |
|               | 212              | 99            | 13.25  | 2700                 | 1.90      | R<br>RF                                                                            | 37<br>37 | DT<br>DT | 90L2<br>90L2   | 25<br>27    | 139<br>140                                                                          |
|               | 237              | 89            | 11.83  | 2630                 | 2.1       |                                                                                    |          |          |                |             |                                                                                     |
|               | 278              | 76            | 10.11  | 2540                 | 2.3       |                                                                                    |          |          |                |             |                                                                                     |
|               | 297              | 71            | 9.47   | 2500                 | 2.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 352              | 60            | 7.97   | 2390                 | 2.6       |                                                                                    |          |          |                |             |                                                                                     |
|               | 421              | 50            | 6.67   | 2260                 | 2.9       |                                                                                    |          |          |                |             |                                                                                     |
|               | 496              | 42            | 5.67   | 2170                 | 3.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 555              | 38            | 5.06   | 2100                 | 3.6       |                                                                                    |          |          |                |             |                                                                                     |
|               | 650              | 32            | 4.32   | 2010                 | 3.9       |                                                                                    |          |          |                |             |                                                                                     |
|               | 694              | 30            | 4.05   | 1980                 | 4.0       |                                                                                    |          |          |                |             |                                                                                     |
|               | 824              | 26            | 3.41   | 1880                 | 4.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 139              | 151           | 10.13  | 1120                 | 0.80      | R<br>RF                                                                            | 27<br>27 | DV<br>DV | 100M4<br>100M4 | 26<br>26    | 136<br>137                                                                          |
|               | 214              | 98            | 6.59   | 1130                 | 1.10      |                                                                                    |          |          |                |             |                                                                                     |
|               | 252              | 83            | 5.60*  | 1390                 | 1.20      |                                                                                    |          |          |                |             |                                                                                     |
|               | 282              | 75            | 5.00*  | 1540                 | 1.30      |                                                                                    |          |          |                |             |                                                                                     |
|               | 330              | 64            | 4.27   | 1540                 | 1.35      |                                                                                    |          |          |                |             |                                                                                     |
|               | 353              | 60            | 4.00*  | 1520                 | 1.45      |                                                                                    |          |          |                |             |                                                                                     |
|               | 418              | 50            | 3.37   | 1470                 | 1.55      |                                                                                    |          |          |                |             |                                                                                     |
|               | 212              | 99            | 13.28* | 1710                 | 1.30      | R<br>RF                                                                            | 27<br>27 | DT<br>DT | 90L2<br>90L2   | 20<br>19    | 136<br>137                                                                          |
|               | 237              | 89            | 11.86  | 1680                 | 1.45      |                                                                                    |          |          |                |             |                                                                                     |
|               | 277              | 76            | 10.13  | 1640                 | 1.60      |                                                                                    |          |          |                |             |                                                                                     |
|               | 344              | 61            | 8.16   | 1520                 | 1.90      |                                                                                    |          |          |                |             |                                                                                     |
|               | 369              | 57            | 7.63*  | 1500                 | 1.95      |                                                                                    |          |          |                |             |                                                                                     |
|               | 426              | 49            | 6.59   | 1460                 | 2.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 502              | 42            | 5.60*  | 1410                 | 2.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 562              | 37            | 5.00*  | 1380                 | 2.5       |                                                                                    |          |          |                |             |                                                                                     |
|               | 658              | 32            | 4.27   | 1330                 | 2.7       |                                                                                    |          |          |                |             |                                                                                     |
|               | 703              | 30            | 4.00*  | 1310                 | 2.8       |                                                                                    |          |          |                |             |                                                                                     |
|               | 834              | 25            | 3.37   | 1250                 | 3.1       |                                                                                    |          |          |                |             |                                                                                     |



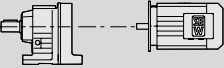
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                    |          |                | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------|----------|----------------|------------|-------------------------------------------------------------------------------------|
| 2.2                    | 298                       | 70                     | 4.73  | 5180                                 | 1.75               | RX<br>RXF                                                                          | 77<br>77           | DV<br>DV | 100M4<br>100M4 | 45<br>48   | 122<br>123                                                                          |
|                        | 349                       | 60                     | 4.04* | 4950                                 | 2.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 381                       | 55                     | 3.70  | 4820                                 | 2.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 434                       | 48                     | 3.25* | 4640                                 | 3.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 458                       | 46                     | 3.08* | 4560                                 | 4.2                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 523                       | 40                     | 2.70  | 4380                                 | 5.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 581                       | 36                     | 2.43  | 4250                                 | 5.9                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 662                       | 32                     | 2.13  | 4080                                 | 6.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 750                       | 28                     | 1.88* | 3920                                 | 6.7                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 846                       | 25                     | 1.67  | 3780                                 | 7.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 991                       | 21                     | 1.42  | 3590                                 | 7.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 374                       | 56                     | 3.77  | 3280                                 | 1.55               | RX<br>RXF                                                                          | 67<br>67           | DV<br>DV | 100M4<br>100M4 | 36<br>40   | 120<br>121                                                                          |
|                        | 441                       | 48                     | 3.20* | 3130                                 | 2.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 488                       | 43                     | 2.89  | 3050                                 | 2.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 555                       | 38                     | 2.54  | 2940                                 | 3.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 588                       | 36                     | 2.40* | 2890                                 | 3.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 690                       | 30                     | 2.04  | 2760                                 | 4.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 759                       | 28                     | 1.86  | 2680                                 | 4.6                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 876                       | 24                     | 1.61  | 2570                                 | 4.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1005                      | 21                     | 1.40* | 2460                                 | 5.0                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 450                       | 47                     | 3.14  | 2450                                 | 1.40               | RX<br>RXF                                                                          | 57<br>57           | DV<br>DV | 100M4<br>100M4 | 33<br>35   | 118<br>119                                                                          |
|                        | 534                       | 39                     | 2.64* | 2340                                 | 1.75               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 595                       | 35                     | 2.37  | 2280                                 | 1.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 691                       | 30                     | 2.04  | 2190                                 | 2.3                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 734                       | 29                     | 1.92* | 2150                                 | 2.4                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 853                       | 25                     | 1.65  | 2060                                 | 2.8                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 955                       | 22                     | 1.48  | 1990                                 | 3.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1080                      | 19                     | 1.30  | 1930                                 | 3.3                |                                                                                    |                    |          |                |            |                                                                                     |
| 3.0                    | 1.2                       | 21200                  | 1123  | 120000                               | 0.85               | R<br>RF                                                                            | 167 R97<br>167 R97 | DV<br>DV | 100L4<br>100L4 | 770<br>780 | 167<br>167                                                                          |
|                        | 1.4                       | 18900                  | 999   | 120000                               | 0.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.6                       | 16300                  | 861   | 120000                               | 1.10               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.8                       | 14400                  | 760   | 120000                               | 1.25               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.1                       | 12200                  | 656   | 120000                               | 1.50               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.8                       | 9330                   | 503   | 120000                               | 1.95               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.6                       | 9990                   | 533   | 67800                                | 1.30               | R<br>RF                                                                            | 147 R87<br>147 R87 | DV<br>DV | 100L4<br>100L4 | 465<br>470 | 167<br>167                                                                          |
|                        | 3.0                       | 8610                   | 462   | 69600                                | 1.50               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.3                       | 8060                   | 426   | 70200                                | 1.60               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.8                       | 6960                   | 368   | 71400                                | 1.85               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.3                       | 6150                   | 326   | 72100                                | 2.1                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 5.0                       | 5230                   | 280   | 72800                                | 2.5                |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 1.6                       | 16900                  | 889   | 21900                                | 0.75               | R<br>RF                                                                            | 147 R77<br>147 R77 | DV<br>DV | 100L4<br>100L4 | 440<br>450 | 167<br>167                                                                          |
|                        | 1.8                       | 14900                  | 784   | 52000                                | 0.85               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.0                       | 13200                  | 695   | 62300                                | 1.00               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.3                       | 11800                  | 619   | 64900                                | 1.10               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.5                       | 10600                  | 558   | 66900                                | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.9                       | 9280                   | 490   | 48100                                | 0.85               | R<br>RF                                                                            | 137 R77<br>137 R77 | DV<br>DV | 100L4<br>100L4 | 310<br>335 | 167<br>167                                                                          |
|                        | 3.3                       | 8100                   | 428   | 53200                                | 1.00               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.7                       | 7260                   | 381   | 54900                                | 1.10               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.3                       | 6160                   | 323   | 56800                                | 1.30               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 4.8                       | 5540                   | 291   | 57700                                | 1.45               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 5.5                       | 4840                   | 255   | 58600                                | 1.65               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 6.3                       | 4240                   | 223   | 59300                                | 1.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 2.7                       | 9990                   | 517   | 34100                                | 0.80               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 3.1                       | 8760                   | 453   | 50700                                | 0.90               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 5.5                       | 4790                   | 253   | 23500                                | 0.90               | R<br>RF                                                                            | 107 R77<br>107 R77 | DV<br>DV | 100L4<br>100L4 | 225<br>230 | 167<br>167                                                                          |
|                        | 6.5                       | 4060                   | 214   | 30700                                | 1.05               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 7.5                       | 3550                   | 187   | 33000                                | 1.20               |                                                                                    |                    |          |                |            |                                                                                     |
|                        | 5.5                       | 4930                   | 256   | 17400                                | 0.85               | R<br>RF                                                                            | 107 R77<br>107 R77 | DV<br>DV | 100L4<br>100L4 | 215<br>225 | 167<br>167                                                                          |

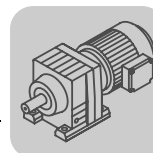


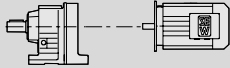
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |            |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|------------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 3.0           | 3.2              | 8860          | 222.60* | 50300                | 0.90      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 132M8<br>132M8 | 305         | 161                                                                                 |
|               | 3.8              | 7500          | 188.45  | 54400                | 1.05      |                                                                                    |            |          |                | 325         | 162                                                                                 |
|               | 4.1              | 6940          | 174.40* | 55500                | 1.15      |                                                                                    |            |          |                |             |                                                                                     |
|               | 4.6              | 6220          | 156.31  | 56700                | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 5.1              | 5620          | 141.12* | 57600                | 1.40      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 132M8<br>132M8 | 305         | 161                                                                                 |
|               | 5.6              | 5100          | 128.18  | 58300                | 1.55      |                                                                                    |            |          |                | 325         | 162                                                                                 |
|               | 6.3              | 4520          | 113.72  | 59000                | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               | 7.0              | 4110          | 103.20* | 59400                | 1.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 8.1              | 3530          | 88.70*  | 59900                | 2.3       | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 132S6<br>132S6 | 295         | 161                                                                                 |
|               | 4.2              | 6780          | 222.60* | 55800                | 1.20      |                                                                                    |            |          |                | 320         | 162                                                                                 |
|               | 5.0              | 5740          | 188.45  | 57400                | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 5.4              | 5320          | 174.40* | 58000                | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 6.0              | 4760          | 156.31  | 58700                | 1.70      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 132S6<br>132S6 | 295         | 161                                                                                 |
|               | 6.7              | 4300          | 141.12* | 59200                | 1.85      |                                                                                    |            |          |                | 320         | 162                                                                                 |
|               | 7.3              | 3910          | 128.18  | 59600                | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 8.3              | 3470          | 113.72  | 60000                | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 9.1              | 3150          | 103.20* | 60200                | 2.5       | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 132S6<br>132S6 | 195         | 159                                                                                 |
|               | 5.9              | 4840          | 158.68  | 21600                | 0.90      |                                                                                    |            |          |                | 205         | 160                                                                                 |
|               | 6.6              | 4320          | 141.83  | 29300                | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 7.4              | 3890          | 127.68  | 31500                | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 6.1              | 4710          | 229.95  | 26500                | 0.90      | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 100L4<br>100L4 | 185         | 159                                                                                 |
|               | 6.9              | 4160          | 203.16  | 30200                | 1.05      |                                                                                    |            |          |                | 190         | 160                                                                                 |
|               | 8.1              | 3530          | 172.34  | 33100                | 1.20      |                                                                                    |            |          |                |             |                                                                                     |
|               | 8.8              | 3250          | 158.68  | 34100                | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 9.9              | 2900          | 141.83  | 35300                | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 11               | 2610          | 127.68  | 36000                | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 12               | 2370          | 115.63  | 36300                | 1.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 14               | 2100          | 102.53  | 36700                | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 15               | 1900          | 92.70   | 36900                | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 18               | 1610          | 78.57   | 35900                | 2.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 19               | 1490          | 72.88   | 35200                | 2.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 9.3              | 3090          | 150.78  | 16200                | 0.95      | R<br>RF                                                                            | 97<br>97   | DV<br>DV | 100L4<br>100L4 | 125         | 157                                                                                 |
|               | 11               | 2590          | 126.75  | 23600                | 1.15      |                                                                                    |            |          |                | 145         | 158                                                                                 |
|               | 12               | 2380          | 116.48  | 24700                | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 14               | 2120          | 103.44  | 25900                | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 15               | 1890          | 92.48   | 26800                | 1.60      |                                                                                    |            |          |                |             |                                                                                     |
|               | 17               | 1700          | 83.15   | 27300                | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               | 19               | 1480          | 72.17   | 27700                | 2.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 21               | 1330          | 65.21   | 27000                | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 23               | 1230          | 59.92   | 26400                | 2.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 26               | 1090          | 53.21   | 25600                | 2.8       |                                                                                    |            |          |                |             |                                                                                     |
|               | 29               | 970           | 47.58   | 24800                | 3.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 33               | 880           | 42.78   | 24000                | 3.4       | R<br>RF                                                                            | 87<br>87   | DV<br>DV | 100L4<br>100L4 | 86          | 154                                                                                 |
|               | 38               | 760           | 37.13   | 23100                | 4.0       |                                                                                    |            |          |                | 93          | 155                                                                                 |
|               | 42               | 680           | 33.25   | 22400                | 4.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 15               | 1910          | 93.38   | 3630                 | 0.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 17               | 1680          | 81.92   | 16000                | 0.90      | R<br>RF                                                                            | 87<br>87   | DV<br>DV | 100L4<br>100L4 | 86          | 154                                                                                 |
|               | 19               | 1490          | 72.57   | 17400                | 1.05      |                                                                                    |            |          |                | 93          | 155                                                                                 |
|               | 22               | 1300          | 63.68*  | 18400                | 1.20      |                                                                                    |            |          |                |             |                                                                                     |
|               | 23               | 1230          | 60.35*  | 18800                | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 27               | 1080          | 52.82   | 19500                | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 29               | 970           | 47.58   | 19900                | 1.60      |                                                                                    |            |          |                |             |                                                                                     |
|               | 34               | 850           | 41.74   | 19400                | 1.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 38               | 755           | 36.84*  | 18700                | 2.1       | R<br>RF                                                                            | 87<br>87   | DV<br>DV | 100L4<br>100L4 | 86          | 154                                                                                 |
|               | 43               | 670           | 32.66*  | 18100                | 2.3       |                                                                                    |            |          |                | 93          | 155                                                                                 |
|               | 50               | 570           | 27.88   | 17400                | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 41               | 705           | 34.40*  | 18400                | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 45               | 640           | 31.40   | 17900                | 2.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 50               | 570           | 27.84*  | 17400                | 2.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 60               | 480           | 23.40   | 16500                | 3.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 65               | 440           | 21.51   | 16100                | 3.4       | R<br>RF                                                                            | 87<br>87   | DV<br>DV | 100L4<br>100L4 | 85          | 154                                                                                 |
|               | 73               | 390           | 19.10   | 15600                | 3.7       |                                                                                    |            |          |                | 92          | 155                                                                                 |
|               | 82               | 350           | 17.08*  | 15100                | 4.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 91               | 315           | 15.35   | 14600                | 4.3       |                                                                                    |            |          |                |             |                                                                                     |

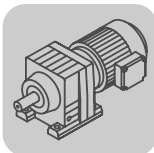


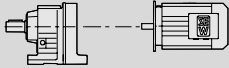
# R..DR/DT/DV R..D.. [kW]

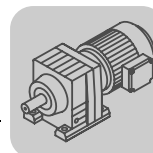
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |                | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|----------------|-----------|-------------------------------------------------------------------------------------|
| 3.0                    | 31                        | 940                    | 45.81  | 8670                                 | 0.85               | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 100L4<br>100L4 | 59        | 151                                                                                 |
|                        | 32                        | 890                    | 43.26  | 9270                                 | 0.95               |                                                                                    |          |          |                | 65        | 152                                                                                 |
|                        | 38                        | 755                    | 36.83  | 10500                                | 1.10               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 42                        | 685                    | 33.47  | 11000                                | 1.20               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 48                        | 595                    | 29.00  | 11600                                | 1.40               | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 100L4<br>100L4 | 59        | 151                                                                                 |
|                        | 55                        | 515                    | 25.23  | 11300                                | 1.50               |                                                                                    |          |          |                | 65        | 152                                                                                 |
|                        | 60                        | 480                    | 23.37  | 11100                                | 1.70               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 65                        | 440                    | 21.43  | 10800                                | 1.85               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 74                        | 385                    | 18.80  | 10500                                | 2.0                | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 100L4<br>100L4 | 58        | 151                                                                                 |
|                        | 79                        | 365                    | 17.82* | 10300                                | 2.1                |                                                                                    |          |          |                | 64        | 152                                                                                 |
|                        | 90                        | 320                    | 15.60  | 9980                                 | 2.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 100                       | 290                    | 14.05  | 9700                                 | 2.5                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 114                       | 250                    | 12.33  | 9350                                 | 2.7                | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 129                       | 225                    | 10.88  | 9030                                 | 3.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 145                       | 197                    | 9.64   | 8720                                 | 3.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 163                       | 176                    | 8.59   | 8500                                 | 3.6                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 181                       | 158                    | 7.74   | 8240                                 | 3.9                | R<br>RF                                                                            | 67<br>67 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 206                       | 139                    | 6.79   | 7920                                 | 4.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 60                        | 480                    | 23.44  | 8730                                 | 1.15               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 70                        | 405                    | 19.89  | 8420                                 | 1.45               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 78                        | 365                    | 17.95  | 8230                                 | 1.60               | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100L4<br>100L4 | 52        | 148                                                                                 |
|                        | 89                        | 325                    | 15.79  | 7980                                 | 1.75               |                                                                                    |          |          |                | 55        | 149                                                                                 |
|                        | 94                        | 305                    | 14.91  | 7860                                 | 1.80               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 110                       | 260                    | 12.70  | 7550                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 121                       | 235                    | 11.54  | 7360                                 | 2.1                | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 140                       | 205                    | 10.00  | 7090                                 | 2.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 52                        | 550                    | 26.97  | 4330                                 | 0.80               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 64                        | 450                    | 21.93  | 4380                                 | 1.00               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 75                        | 380                    | 18.60* | 4300                                 | 1.20               | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100L4<br>100L4 | 47        | 145                                                                                 |
|                        | 83                        | 345                    | 16.79  | 4250                                 | 1.30               |                                                                                    |          |          |                | 50        | 146                                                                                 |
|                        | 95                        | 300                    | 14.77* | 4160                                 | 1.45               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 100                       | 285                    | 13.95* | 4130                                 | 1.50               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 118                       | 245                    | 11.88  | 4010                                 | 1.65               | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 130                       | 220                    | 10.79  | 3940                                 | 1.75               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 150                       | 191                    | 9.35   | 3820                                 | 1.95               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 155                       | 185                    | 9.06   | 3810                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 176                       | 163                    | 7.97   | 3700                                 | 2.2                | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100L4<br>100L4 | 46        | 145                                                                                 |
|                        | 186                       | 154                    | 7.53   | 3650                                 | 2.3                |                                                                                    |          |          |                | 49        | 146                                                                                 |
|                        | 218                       | 131                    | 6.41   | 3520                                 | 2.6                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 240                       | 119                    | 5.82   | 3430                                 | 2.7                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 277                       | 103                    | 5.05   | 3310                                 | 3.0                | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 319                       | 90                     | 4.39   | 3190                                 | 3.1                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 128                       | 225                    | 21.93  | 3950                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 151                       | 190                    | 18.60* | 3820                                 | 2.4                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 167                       | 172                    | 16.79  | 3730                                 | 2.6                | R<br>RF                                                                            | 57<br>57 | DV<br>DV | 100M2<br>100M2 | 42        | 145                                                                                 |
|                        | 190                       | 151                    | 14.77* | 3620                                 | 2.9                |                                                                                    |          |          |                | 45        | 146                                                                                 |
|                        | 201                       | 143                    | 13.95* | 3570                                 | 3.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 236                       | 122                    | 11.88  | 3440                                 | 3.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 259                       | 110                    | 10.79  | 3360                                 | 3.5                | R<br>RF                                                                            | 47<br>47 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 86                        | 330                    | 16.22  | 2030                                 | 0.85               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 96                        | 300                    | 14.56  | 2500                                 | 0.90               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 112                       | 255                    | 12.54  | 3040                                 | 0.95               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 119                       | 240                    | 11.79  | 3040                                 | 1.00               | R<br>RF                                                                            | 47<br>47 | DV<br>DV | 100L4<br>100L4 | 41        | 142                                                                                 |
|                        | 138                       | 210                    | 10.15  | 2970                                 | 1.10               |                                                                                    |          |          |                | 41        | 143                                                                                 |
|                        | 154                       | 186                    | 9.07   | 2910                                 | 1.20               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 175                       | 164                    | 8.01   | 2840                                 | 1.25               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 181                       | 159                    | 7.76*  | 2740                                 | 1.05               | R<br>RF                                                                            | 47<br>47 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 201                       | 143                    | 6.96   | 2680                                 | 1.10               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 233                       | 123                    | 6.00   | 2610                                 | 1.25               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 248                       | 115                    | 5.64*  | 2580                                 | 1.35               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 288                       | 99                     | 4.85   | 2490                                 | 1.50               | R<br>RF                                                                            | 47<br>47 | DV<br>DV | 100L4<br>100L4 |           |                                                                                     |
|                        | 323                       | 89                     | 4.34   | 2430                                 | 1.65               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 365                       | 78                     | 3.83   | 2360                                 | 1.85               |                                                                                    |          |          |                |           |                                                                                     |



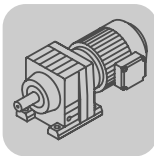
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i     | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |                | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|-------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|----------------|-----------|-------------------------------------------------------------------------------------|
| 3.0                    | 237                       | 121                    | 11.79 | 2670                                 | 2.0                | R<br>RF                                                                            | 47<br>47 | DV<br>DV | 100M2<br>100M2 | 37<br>37  | 142<br>143                                                                          |
|                        | 276                       | 104                    | 10.15 | 2580                                 | 2.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 309                       | 93                     | 9.07  | 2510                                 | 2.4                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 349                       | 82                     | 8.01  | 2430                                 | 2.5                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 361                       | 79                     | 7.76* | 2370                                 | 2.1                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 402                       | 71                     | 6.96  | 2310                                 | 2.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 467                       | 61                     | 6.00  | 2220                                 | 2.5                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 496                       | 58                     | 5.64* | 2190                                 | 2.7                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 577                       | 50                     | 4.85  | 2100                                 | 3.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 646                       | 44                     | 4.34  | 2040                                 | 3.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 731                       | 39                     | 3.83  | 1970                                 | 3.7                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 139                       | 205                    | 10.11 | 780                                  | 0.80               | R<br>RF                                                                            | 37<br>37 | DV<br>DV | 100L4<br>100L4 | 35<br>37  | 139<br>140                                                                          |
|                        | 148                       | 194                    | 9.47  | 1010                                 | 0.85               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 176                       | 163                    | 7.97  | 1510                                 | 0.95               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 210                       | 137                    | 6.67  | 1250                                 | 1.05               | R<br>RF                                                                            | 37<br>37 | DV<br>DV | 100L4<br>100L4 | 35<br>37  | 139<br>140                                                                          |
|                        | 247                       | 116                    | 5.67  | 1630                                 | 1.25               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 277                       | 104                    | 5.06  | 1830                                 | 1.30               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 324                       | 88                     | 4.32  | 2070                                 | 1.45               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 346                       | 83                     | 4.05  | 2140                                 | 1.45               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 411                       | 70                     | 3.41  | 2180                                 | 1.60               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 277                       | 103                    | 10.11 | 2340                                 | 1.65               | R<br>RF                                                                            | 37<br>37 | DV<br>DV | 100M2<br>100M2 | 31<br>33  | 139<br>140                                                                          |
|                        | 296                       | 97                     | 9.47  | 2380                                 | 1.70               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 351                       | 82                     | 7.97  | 2290                                 | 1.90               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 420                       | 68                     | 6.67  | 2170                                 | 2.1                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 494                       | 58                     | 5.67  | 2090                                 | 2.5                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 553                       | 52                     | 5.06  | 2030                                 | 2.6                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 648                       | 44                     | 4.32  | 1950                                 | 2.9                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 692                       | 41                     | 4.05  | 1920                                 | 3.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 821                       | 35                     | 3.41  | 1840                                 | 3.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 250                       | 115                    | 5.60* | 360                                  | 0.85               | R<br>RF                                                                            | 27<br>27 | DV<br>DV | 100L4<br>100L4 | 30<br>30  | 136<br>137                                                                          |
|                        | 280                       | 102                    | 5.00* | 615                                  | 0.95               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 328                       | 87                     | 4.27  | 910                                  | 1.00               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 350                       | 82                     | 4.00* | 1010                                 | 1.05               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 415                       | 69                     | 3.37  | 1230                                 | 1.15               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 425                       | 67                     | 6.59  | 1260                                 | 1.55               | R<br>RF                                                                            | 27<br>27 | DV<br>DV | 100M2<br>100M2 | 26<br>26  | 136<br>137                                                                          |
|                        | 500                       | 57                     | 5.60* | 1330                                 | 1.75               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 560                       | 51                     | 5.00* | 1300                                 | 1.85               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 656                       | 44                     | 4.27  | 1260                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 700                       | 41                     | 4.00* | 1240                                 | 2.1                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 831                       | 35                     | 3.37  | 1200                                 | 2.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 217                       | 132                    | 6.45  | 7130                                 | 1.45               | RX<br>RXF                                                                          | 87<br>87 | DV<br>DV | 100L4<br>100L4 | 66<br>71  | 124<br>125                                                                          |
|                        | 252                       | 114                    | 5.56* | 6830                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 276                       | 104                    | 5.07  | 6650                                 | 2.4                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 311                       | 92                     | 4.50* | 6430                                 | 3.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 370                       | 77                     | 3.78  | 6100                                 | 3.9                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 296                       | 97                     | 4.73  | 5050                                 | 1.25               | RX<br>RXF                                                                          | 77<br>77 | DV<br>DV | 100L4<br>100L4 | 49<br>52  | 122<br>123                                                                          |
|                        | 347                       | 83                     | 4.04* | 4830                                 | 1.75               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 378                       | 76                     | 3.70  | 4720                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 431                       | 67                     | 3.25* | 4550                                 | 2.7                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 455                       | 63                     | 3.08* | 4480                                 | 3.1                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 371                       | 77                     | 3.77  | 3150                                 | 1.15               | RX<br>RXF                                                                          | 67<br>67 | DV<br>DV | 100L4<br>100L4 | 40<br>44  | 120<br>121                                                                          |
|                        | 438                       | 66                     | 3.20* | 3030                                 | 1.55               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 485                       | 59                     | 2.89  | 2950                                 | 1.80               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 551                       | 52                     | 2.54  | 2850                                 | 2.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 583                       | 49                     | 2.40* | 2810                                 | 2.5                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 685                       | 42                     | 2.04  | 2690                                 | 3.2                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 754                       | 38                     | 1.86  | 2610                                 | 3.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 870                       | 33                     | 1.61  | 2510                                 | 3.5                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 1000                      | 29                     | 1.40* | 2410                                 | 3.6                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 446                       | 64                     | 3.14  | 2330                                 | 1.00               | RX<br>RXF                                                                          | 57<br>57 | DV<br>DV | 100L4<br>100L4 | 37<br>39  | 118<br>119                                                                          |
|                        | 530                       | 54                     | 2.64* | 2240                                 | 1.30               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 591                       | 49                     | 2.37  | 2180                                 | 1.40               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 686                       | 42                     | 2.04  | 2100                                 | 1.65               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 729                       | 39                     | 1.92* | 2070                                 | 1.75               |                                                                                    |          |          |                |           |                                                                                     |
|                        | 847                       | 34                     | 1.65  | 1990                                 | 2.0                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 948                       | 30                     | 1.48  | 1930                                 | 2.3                |                                                                                    |          |          |                |           |                                                                                     |
|                        | 1075                      | 27                     | 1.30  | 1870                                 | 2.4                |                                                                                    |          |          |                |           |                                                                                     |



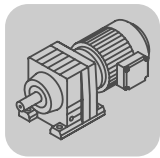
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                                  |                        |                                | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|----------------------------------|------------------------|--------------------------------|-------------|-------------------------------------------------------------------------------------|
| <b>4.0</b>    | 1.7              | 21500         | 861     | 120000               | 0.85      | <b>R</b><br><b>RF</b>                                                              | <b>167 R97</b><br><b>167 R97</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 780         | 167                                                                                 |
|               | 1.9              | 19000         | 760     | 120000               | 0.95      |                                                                                    |                                  |                        |                                | 780         | 167                                                                                 |
|               | 2.2              | 16100         | 656     | 120000               | 1.10      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 2.8              | 12400         | 503     | 120000               | 1.45      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 3.8              | 9260          | 376     | 120000               | 1.95      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 4.2              | 8240          | 335     | 120000               | 2.2       | <b>R</b><br><b>RF</b>                                                              | <b>147 R87</b><br><b>147 R87</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 470         | 167                                                                                 |
|               | 2.7              | 13200         | 533     | 62200                | 1.00      |                                                                                    |                                  |                        |                                | 475         | 167                                                                                 |
|               | 3.1              | 11400         | 462     | 65600                | 1.15      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 3.3              | 10600         | 426     | 66800                | 1.20      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 3.9              | 9190          | 368     | 68900                | 1.40      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 4.4              | 8130          | 326     | 70200                | 1.60      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.1              | 6920          | 280     | 71400                | 1.90      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.7              | 6110          | 247     | 72100                | 2.1       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 6.7              | 5280          | 214     | 72800                | 2.5       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 7.5              | 4670          | 189     | 73200                | 2.8       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 9.0              | 3920          | 159     | 73600                | 3.3       | <b>R</b><br><b>RF</b>                                                              | <b>147 R77</b><br><b>147 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 445         | 167                                                                                 |
|               | 2.3              | 15500         | 619     | 43200                | 0.85      |                                                                                    |                                  |                        |                                | 455         | 167                                                                                 |
|               | 2.5              | 14000         | 558     | 60500                | 0.95      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 2.9              | 12300         | 489     | 64100                | 1.05      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 3.4              | 10400         | 415     | 67200                | 1.25      | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 315         | 167                                                                                 |
|               | 3.7              | 9570          | 381     | 42700                | 0.85      |                                                                                    |                                  |                        |                                | 340         | 167                                                                                 |
|               | 4.4              | 8120          | 323     | 53100                | 1.00      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 4.9              | 7310          | 291     | 54800                | 1.10      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.6              | 6390          | 255     | 56400                | 1.25      | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 305         | 167                                                                                 |
|               | 6.4              | 5600          | 223     | 57600                | 1.45      |                                                                                    |                                  |                        |                                | 330         | 167                                                                                 |
|               | 3.8              | 9560          | 376     | 43000                | 0.85      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 4.2              | 8600          | 339     | 51400                | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 230         | 167                                                                                 |
|               | 4.8              | 7540          | 297     | 54300                | 1.05      |                                                                                    |                                  |                        |                                | 235         | 167                                                                                 |
|               | 7.6              | 4680          | 187     | 27200                | 0.90      | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 225         | 167                                                                                 |
|               | 7.3              | 4890          | 193     | 19000                | 0.90      |                                                                                    |                                  |                        |                                | 230         | 167                                                                                 |
|               | 8.2              | 4380          | 172     | 29000                | 1.00      | <b>R</b><br><b>RF</b>                                                              | <b>147</b><br><b>147</b>         | <b>DV</b><br><b>DV</b> | <b>132ML8</b><br><b>132ML8</b> | 440         | 163                                                                                 |
|               | 4.4              | 8660          | 163.31  | 69500                | 1.50      |                                                                                    |                                  |                        |                                | 450         | 164                                                                                 |
|               | 4.9              | 7790          | 146.91  | 70500                | 1.65      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 6.0              | 6360          | 119.86  | 71900                | 2.0       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 6.6              | 5800          | 109.31  | 72400                | 2.2       | <b>R</b><br><b>RF</b>                                                              | <b>137</b><br><b>137</b>         | <b>DV</b><br><b>DV</b> | <b>132ML8</b><br><b>132ML8</b> | 310         | 161                                                                                 |
|               | 4.1              | 9250          | 174.40* | 48400                | 0.85      |                                                                                    |                                  |                        |                                | 335         | 162                                                                                 |
|               | 4.6              | 8290          | 156.31  | 52700                | 0.95      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.1              | 7490          | 141.12* | 54400                | 1.05      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.6              | 6800          | 128.18  | 55700                | 1.20      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 6.3              | 6030          | 113.72  | 57000                | 1.35      | <b>R</b><br><b>RF</b>                                                              | <b>137</b><br><b>137</b>         | <b>DV</b><br><b>DV</b> | <b>132M6</b><br><b>132M6</b>   | 305         | 161                                                                                 |
|               | 7.0              | 5470          | 103.20* | 57800                | 1.45      |                                                                                    |                                  |                        |                                | 325         | 162                                                                                 |
|               | 4.3              | 8860          | 222.60* | 50300                | 0.90      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.1              | 7500          | 188.45  | 54400                | 1.05      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 5.5              | 6940          | 174.40* | 55500                | 1.15      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 6.1              | 6220          | 156.31  | 56700                | 1.30      | <b>R</b><br><b>RF</b>                                                              | <b>137</b><br><b>137</b>         | <b>DV</b><br><b>DV</b> | <b>132M6</b><br><b>132M6</b>   | 305         | 161                                                                                 |
|               | 6.8              | 5620          | 141.12* | 57600                | 1.40      |                                                                                    |                                  |                        |                                | 325         | 162                                                                                 |
|               | 7.5              | 5100          | 128.18  | 58300                | 1.55      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 8.4              | 4520          | 113.72  | 59000                | 1.75      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 9.3              | 4110          | 103.20* | 59400                | 1.95      | <b>R</b><br><b>RF</b>                                                              | <b>137</b><br><b>137</b>         | <b>DV</b><br><b>DV</b> | <b>132M6</b><br><b>132M6</b>   | 305         | 161                                                                                 |
|               | 11               | 3530          | 88.70*  | 59900                | 2.3       |                                                                                    |                                  |                        |                                | 325         | 162                                                                                 |
|               | 8.2              | 4640          | 172.34  | 27500                | 0.95      | <b>R</b><br><b>RF</b>                                                              | <b>107</b><br><b>107</b>         | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b>   | 190         | 159                                                                                 |
|               | 9.0              | 4270          | 158.68  | 29600                | 1.00      |                                                                                    |                                  |                        |                                | 195         | 160                                                                                 |
|               | 10               | 3820          | 141.83  | 31900                | 1.15      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 11               | 3430          | 127.68  | 33400                | 1.25      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 12               | 3110          | 115.63  | 34600                | 1.40      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 14               | 2760          | 102.53  | 35700                | 1.55      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 15               | 2490          | 92.70   | 36200                | 1.70      |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 18               | 2110          | 78.57   | 34900                | 2.0       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 19               | 1960          | 72.88   | 34200                | 2.2       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 22               | 1760          | 65.60*  | 33200                | 2.4       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 24               | 1600          | 59.41   | 32300                | 2.7       |                                                                                    |                                  |                        |                                |             |                                                                                     |
|               | 27               | 1420          | 52.68   | 31300                | 3.0       |                                                                                    |                                  |                        |                                |             |                                                                                     |

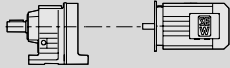


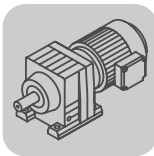
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |          |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|----------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 4.0           | 12               | 3130          | 116.48 | 13800                | 0.95      | R<br>RF                                                                            | 97<br>97 | DV<br>DV | 112M4<br>112M4 | 135         | 157                                                                                 |
|               | 14               | 2780          | 103.44 | 22400                | 1.10      |                                                                                    |          |          |                | 150         | 158                                                                                 |
|               | 15               | 2490          | 92.48  | 24100                | 1.20      |                                                                                    |          |          |                |             |                                                                                     |
|               | 17               | 2240          | 83.15  | 25400                | 1.35      |                                                                                    |          |          |                |             |                                                                                     |
|               | 20               | 1940          | 72.17  | 26600                | 1.55      |                                                                                    |          |          |                |             |                                                                                     |
|               | 22               | 1750          | 65.21  | 26000                | 1.70      |                                                                                    |          |          |                |             |                                                                                     |
|               | 24               | 1610          | 59.92  | 25500                | 1.85      |                                                                                    |          |          |                |             |                                                                                     |
|               | 27               | 1430          | 53.21  | 24700                | 2.1       |                                                                                    |          |          |                |             |                                                                                     |
|               | 30               | 1280          | 47.58  | 24000                | 2.3       |                                                                                    |          |          |                |             |                                                                                     |
|               | 33               | 1150          | 42.78  | 23400                | 2.6       |                                                                                    |          |          |                |             |                                                                                     |
|               | 38               | 1000          | 37.13  | 22500                | 3.0       |                                                                                    |          |          |                |             |                                                                                     |
|               | 43               | 890           | 33.25  | 21800                | 3.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 44               | 860           | 32.05  | 21600                | 3.0       | R<br>RF                                                                            | 97<br>97 | DV<br>DV | 112M4<br>112M4 | 130         | 157                                                                                 |
|               | 52               | 730           | 27.19  | 20600                | 3.5       |                                                                                    |          |          |                | 150         | 158                                                                                 |
|               | 57               | 675           | 25.03  | 20100                | 4.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 63               | 600           | 22.37  | 19500                | 4.5       |                                                                                    |          |          |                |             |                                                                                     |
|               | 71               | 540           | 20.14  | 18900                | 4.8       |                                                                                    |          |          |                |             |                                                                                     |
|               | 22               | 1710          | 63.68* | 13300                | 0.90      | R<br>RF                                                                            | 87<br>87 | DV<br>DV | 112M4<br>112M4 | 91          | 154                                                                                 |
|               | 24               | 1620          | 60.35* | 13900                | 0.95      |                                                                                    |          |          |                | 98          | 155                                                                                 |
|               | 27               | 1420          | 52.82  | 15200                | 1.10      |                                                                                    |          |          |                |             |                                                                                     |
|               | 30               | 1280          | 47.58  | 16000                | 1.20      | R<br>RF                                                                            | 87<br>87 | DV<br>DV | 112M4<br>112M4 | 91          | 154                                                                                 |
|               | 34               | 1120          | 41.74  | 16800                | 1.40      |                                                                                    |          |          |                | 98          | 155                                                                                 |
|               | 39               | 990           | 36.84* | 17400                | 1.55      |                                                                                    |          |          |                |             |                                                                                     |
|               | 43               | 880           | 32.66* | 17500                | 1.75      |                                                                                    |          |          |                |             |                                                                                     |
|               | 51               | 750           | 27.88  | 16800                | 2.0       | R<br>RF                                                                            | 87<br>87 | DV<br>DV | 112M4<br>112M4 | 90          | 154                                                                                 |
|               | 41               | 930           | 34.40* | 17600                | 1.60      |                                                                                    |          |          |                | 97          | 155                                                                                 |
|               | 45               | 840           | 31.40  | 17400                | 1.85      |                                                                                    |          |          |                |             |                                                                                     |
|               | 51               | 750           | 27.84* | 16800                | 2.1       |                                                                                    |          |          |                |             |                                                                                     |
|               | 61               | 630           | 23.40  | 16100                | 2.5       |                                                                                    |          |          |                |             |                                                                                     |
|               | 66               | 580           | 21.51  | 15700                | 2.6       |                                                                                    |          |          |                |             |                                                                                     |
|               | 74               | 515           | 19.10  | 15200                | 2.8       |                                                                                    |          |          |                |             |                                                                                     |
|               | 83               | 460           | 17.08* | 14700                | 3.0       |                                                                                    |          |          |                |             |                                                                                     |
|               | 92               | 415           | 15.35  | 14300                | 3.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 107              | 360           | 13.33  | 13700                | 3.6       |                                                                                    |          |          |                |             |                                                                                     |
|               | 119              | 320           | 11.93  | 13300                | 3.8       |                                                                                    |          |          |                |             |                                                                                     |
|               | 39               | 990           | 36.83  | 4070                 | 0.85      | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 112M4<br>112M4 | 65          | 151                                                                                 |
|               | 42               | 900           | 33.47  | 9100                 | 0.90      |                                                                                    |          |          |                | 71          | 152                                                                                 |
|               | 49               | 780           | 29.00  | 10300                | 1.05      |                                                                                    |          |          |                |             |                                                                                     |
|               | 56               | 680           | 25.23  | 10800                | 1.15      |                                                                                    |          |          |                |             |                                                                                     |
|               | 61               | 630           | 23.37  | 10600                | 1.30      | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 112M4<br>112M4 | 64          | 151                                                                                 |
|               | 66               | 575           | 21.43  | 10400                | 1.40      |                                                                                    |          |          |                | 70          | 152                                                                                 |
|               | 76               | 505           | 18.80  | 10100                | 1.55      |                                                                                    |          |          |                |             |                                                                                     |
|               | 80               | 480           | 17.82* | 9950                 | 1.65      |                                                                                    |          |          |                |             |                                                                                     |
|               | 91               | 420           | 15.60  | 9630                 | 1.75      |                                                                                    |          |          |                |             |                                                                                     |
|               | 101              | 380           | 14.05  | 9380                 | 1.90      |                                                                                    |          |          |                |             |                                                                                     |
|               | 115              | 330           | 12.33  | 9070                 | 2.1       |                                                                                    |          |          |                |             |                                                                                     |
|               | 131              | 295           | 10.88  | 8780                 | 2.3       |                                                                                    |          |          |                |             |                                                                                     |
|               | 147              | 260           | 9.64   | 8500                 | 2.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 165              | 230           | 8.59   | 8320                 | 2.7       |                                                                                    |          |          |                |             |                                                                                     |
|               | 183              | 210           | 7.74   | 8070                 | 2.9       |                                                                                    |          |          |                |             |                                                                                     |
|               | 209              | 183           | 6.79   | 7770                 | 3.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 237              | 161           | 5.99*  | 7490                 | 3.4       |                                                                                    |          |          |                |             |                                                                                     |
|               | 267              | 143           | 5.31*  | 7230                 | 3.6       |                                                                                    |          |          |                |             |                                                                                     |
|               | 71               | 535           | 19.89  | 7960                 | 1.10      | R<br>RF                                                                            | 67<br>67 | DV<br>DV | 112M4<br>112M4 | 59          | 148                                                                                 |
|               | 79               | 485           | 17.95  | 7800                 | 1.20      |                                                                                    |          |          |                | 62          | 149                                                                                 |
|               | 90               | 425           | 15.79  | 7600                 | 1.30      |                                                                                    |          |          |                |             |                                                                                     |
|               | 95               | 400           | 14.91  | 7510                 | 1.35      |                                                                                    |          |          |                |             |                                                                                     |
|               | 112              | 340           | 12.70  | 7240                 | 1.50      |                                                                                    |          |          |                |             |                                                                                     |
|               | 123              | 310           | 11.54  | 7080                 | 1.60      |                                                                                    |          |          |                |             |                                                                                     |
|               | 142              | 270           | 10.00  | 6840                 | 1.75      |                                                                                    |          |          |                |             |                                                                                     |
|               | 163              | 235           | 8.70*  | 6600                 | 1.90      |                                                                                    |          |          |                |             |                                                                                     |
|               | 182              | 210           | 7.79   | 6440                 | 1.80      |                                                                                    |          |          |                |             |                                                                                     |
|               | 193              | 198           | 7.36*  | 6340                 | 1.85      |                                                                                    |          |          |                |             |                                                                                     |
|               | 227              | 169           | 6.27   | 6070                 | 1.95      |                                                                                    |          |          |                |             |                                                                                     |
|               | 249              | 153           | 5.70   | 5920                 | 2.0       |                                                                                    |          |          |                |             |                                                                                     |
|               | 288              | 133           | 4.93   | 5680                 | 2.2       |                                                                                    |          |          |                |             |                                                                                     |
|               | 331              | 116           | 4.29   | 5460                 | 2.3       |                                                                                    |          |          |                |             |                                                                                     |



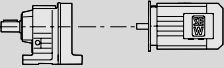
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |           |           |           |              | $m$<br>[kg] |     |
|---------------|------------------|---------------|--------|----------------------|-----------|-----------|-----------|-----------|--------------|-------------|-----|
| <b>4.0</b>    | <b>76</b>        | 500           | 18.60* | 3520                 | 0.90      | <b>R</b>  | <b>57</b> | <b>DV</b> | <b>112M4</b> | 53          | 145 |
|               | <b>85</b>        | 450           | 16.79  | 3830                 | 1.00      |           |           |           |              | 56          | 146 |
|               | <b>96</b>        | 395           | 14.77* | 3800                 | 1.10      |           |           |           |              |             |     |
|               | <b>102</b>       | 375           | 13.95* | 3780                 | 1.15      | <b>R</b>  | <b>57</b> | <b>DV</b> | <b>112M4</b> | 53          | 145 |
|               | <b>120</b>       | 320           | 11.88  | 3710                 | 1.25      |           |           |           |              | 56          | 146 |
|               | <b>132</b>       | 290           | 10.79  | 3660                 | 1.35      |           |           |           |              |             |     |
|               | <b>152</b>       | 250           | 9.35   | 3580                 | 1.45      |           |           |           |              |             |     |
|               | <b>157</b>       | 245           | 9.06   | 3590                 | 1.55      |           |           |           |              |             |     |
|               | <b>178</b>       | 215           | 7.97   | 3500                 | 1.65      |           |           |           |              |             |     |
|               | <b>189</b>       | 205           | 7.53   | 3470                 | 1.75      |           |           |           |              |             |     |
|               | <b>222</b>       | 172           | 6.41   | 3350                 | 1.95      |           |           |           |              |             |     |
|               | <b>244</b>       | 157           | 5.82   | 3280                 | 2.0       |           |           |           |              |             |     |
|               | <b>281</b>       | 136           | 5.05   | 3180                 | 2.3       |           |           |           |              |             |     |
|               | <b>323</b>       | 118           | 4.39   | 3070                 | 2.4       |           |           |           |              |             |     |
|               | <b>140</b>       | 275           | 10.15  | 1960                 | 0.85      | <b>R</b>  | <b>47</b> | <b>DV</b> | <b>112M4</b> | 48          | 142 |
|               | <b>157</b>       | 245           | 9.07   | 2350                 | 0.90      |           |           |           |              | 48          | 143 |
|               | <b>177</b>       | 215           | 8.01   | 2640                 | 0.95      |           |           |           |              |             |     |
|               | <b>204</b>       | 187           | 6.96   | 2480                 | 0.85      |           |           |           |              |             |     |
|               | <b>237</b>       | 161           | 6.00   | 2430                 | 0.95      |           |           |           |              |             |     |
|               | <b>252</b>       | 152           | 5.64*  | 2410                 | 1.00      |           |           |           |              |             |     |
|               | <b>293</b>       | 131           | 4.85   | 2350                 | 1.15      |           |           |           |              |             |     |
|               | <b>327</b>       | 117           | 4.34   | 2300                 | 1.25      |           |           |           |              |             |     |
|               | <b>371</b>       | 103           | 3.83   | 2250                 | 1.40      |           |           |           |              |             |     |
|               | <b>176</b>       | 215           | 16.22  | 2640                 | 1.25      | <b>R</b>  | <b>47</b> | <b>DV</b> | <b>112M2</b> | 48          | 142 |
|               | <b>196</b>       | 195           | 14.56  | 2600                 | 1.35      |           |           |           |              | 48          | 143 |
|               | <b>228</b>       | 168           | 12.54  | 2540                 | 1.50      |           |           |           |              |             |     |
|               | <b>242</b>       | 158           | 11.79  | 2510                 | 1.55      |           |           |           |              |             |     |
|               | <b>282</b>       | 136           | 10.15  | 2440                 | 1.70      |           |           |           |              |             |     |
|               | <b>315</b>       | 121           | 9.07   | 2390                 | 1.80      |           |           |           |              |             |     |
|               | <b>357</b>       | 107           | 8.01   | 2320                 | 1.90      |           |           |           |              |             |     |
|               | <b>369</b>       | 104           | 7.76*  | 2250                 | 1.55      |           |           |           |              |             |     |
|               | <b>411</b>       | 93            | 6.96   | 2200                 | 1.70      |           |           |           |              |             |     |
|               | <b>477</b>       | 80            | 6.00   | 2130                 | 1.95      |           |           |           |              |             |     |
|               | <b>507</b>       | 75            | 5.64*  | 2100                 | 2.1       |           |           |           |              |             |     |
|               | <b>589</b>       | 65            | 4.85   | 2020                 | 2.3       |           |           |           |              |             |     |
|               | <b>660</b>       | 58            | 4.34   | 1970                 | 2.5       |           |           |           |              |             |     |
|               | <b>746</b>       | 51            | 3.83   | 1910                 | 2.8       |           |           |           |              |             |     |
|               | <b>255</b>       | 150           | 5.56*  | 6630                 | 1.50      | <b>RX</b> | <b>87</b> | <b>DV</b> | <b>112M4</b> | 71          | 124 |
|               | <b>280</b>       | 137           | 5.07   | 6470                 | 1.85      |           |           |           |              | 76          | 125 |
|               | <b>316</b>       | 121           | 4.50*  | 6260                 | 2.4       |           |           |           |              |             |     |
|               | <b>375</b>       | 102           | 3.78   | 5960                 | 3.0       |           |           |           |              |             |     |
|               | <b>351</b>       | 109           | 4.04*  | 4670                 | 1.30      | <b>RX</b> | <b>77</b> | <b>DV</b> | <b>112M4</b> | 55          | 122 |
|               | <b>383</b>       | 100           | 3.70   | 4560                 | 1.55      |           |           |           |              | 58          | 123 |
|               | <b>437</b>       | 87            | 3.25*  | 4410                 | 2.1       |           |           |           |              |             |     |
|               | <b>461</b>       | 83            | 3.08*  | 4350                 | 2.3       |           |           |           |              |             |     |
|               | <b>527</b>       | 73            | 2.70   | 4190                 | 3.0       |           |           |           |              |             |     |
|               | <b>585</b>       | 65            | 2.43   | 4070                 | 3.3       |           |           |           |              |             |     |
|               | <b>667</b>       | 57            | 2.13   | 3920                 | 3.5       |           |           |           |              |             |     |
|               | <b>755</b>       | 51            | 1.88*  | 3780                 | 3.7       |           |           |           |              |             |     |
|               | <b>852</b>       | 45            | 1.67   | 3650                 | 3.9       |           |           |           |              |             |     |
|               | <b>998</b>       | 38            | 1.42   | 3480                 | 4.1       |           |           |           |              |             |     |
|               | <b>444</b>       | 86            | 3.20*  | 2870                 | 1.15      | <b>RX</b> | <b>67</b> | <b>DV</b> | <b>112M4</b> | 47          | 120 |
|               | <b>492</b>       | 78            | 2.89   | 2810                 | 1.35      |           |           |           |              | 51          | 121 |
|               | <b>559</b>       | 68            | 2.54   | 2730                 | 1.75      |           |           |           |              |             |     |
|               | <b>592</b>       | 65            | 2.40*  | 2690                 | 1.90      |           |           |           |              |             |     |
|               | <b>695</b>       | 55            | 2.04   | 2580                 | 2.4       |           |           |           |              |             |     |
|               | <b>765</b>       | 50            | 1.86   | 2520                 | 2.5       |           |           |           |              |             |     |
|               | <b>883</b>       | 43            | 1.61   | 2420                 | 2.6       |           |           |           |              |             |     |
|               | <b>1015</b>      | 38            | 1.40*  | 2330                 | 2.8       |           |           |           |              |             |     |
|               | <b>538</b>       | 71            | 2.64*  | 1670                 | 0.95      | <b>RX</b> | <b>57</b> | <b>DV</b> | <b>112M4</b> | 44          | 118 |
|               | <b>599</b>       | 64            | 2.37   | 1780                 | 1.10      |           |           |           |              | 46          | 119 |
|               | <b>696</b>       | 55            | 2.04   | 1910                 | 1.25      |           |           |           |              |             |     |
|               | <b>740</b>       | 52            | 1.92*  | 1940                 | 1.35      |           |           |           |              |             |     |
|               | <b>859</b>       | 44            | 1.65   | 1900                 | 1.55      |           |           |           |              |             |     |
|               | <b>962</b>       | 40            | 1.48   | 1840                 | 1.70      |           |           |           |              |             |     |
|               | <b>1090</b>      | 35            | 1.30   | 1790                 | 1.80      |           |           |           |              |             |     |

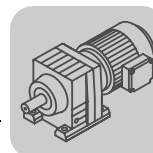


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                    |          |                  | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|--------------------|----------|------------------|-------------|-------------------------------------------------------------------------------------|
| 5.5           | 2.2              | 22200         | 656     | 120000               | 0.80      | R<br>RF                                                                            | 167 R97<br>167 R97 | DV<br>DV | 132S4<br>132S4   | 780<br>790  | 167<br>167                                                                          |
|               | 2.5              | 19400         | 579     | 120000               | 0.95      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 2.8              | 17000         | 503     | 120000               | 1.05      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 3.3              | 14500         | 432     | 120000               | 1.25      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 3.8              | 12700         | 376     | 120000               | 1.40      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 4.3              | 11300         | 335     | 120000               | 1.60      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 4.7              | 10200         | 303     | 120000               | 1.75      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 5.1              | 9360          | 279     | 120000               | 1.90      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 3.1              | 15700         | 462     | 41200                | 0.85      | R<br>RF                                                                            | 147 R87<br>147 R87 | DV<br>DV | 132S4<br>132S4   | 475<br>480  | 167<br>167                                                                          |
|               | 3.4              | 14600         | 426     | 55400                | 0.90      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 3.9              | 12600         | 368     | 63500                | 1.05      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 4.4              | 11100         | 326     | 66000                | 1.15      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 5.1              | 9520          | 280     | 68500                | 1.35      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 5.8              | 8400          | 247     | 69900                | 1.55      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.7              | 7250          | 214     | 71100                | 1.80      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 7.6              | 6410          | 189     | 71900                | 2.0       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 3.1              | 17000         | 229.71  | 120000               | 1.05      | R<br>RF                                                                            | 167<br>167         | DV<br>DV | 160M8<br>160M8   | 700<br>700  | 165<br>166                                                                          |
|               | 3.8              | 13800         | 186.93* | 120000               | 1.30      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 4.6              | 11300         | 153.07  | 120000               | 1.60      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 5.1              | 10400         | 139.98  | 120000               | 1.75      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 5.8              | 9010          | 121.81* | 120000               | 2.0       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 4.4              | 12100         | 163.31  | 64400                | 1.10      | R<br>RF                                                                            | 147<br>147         | DV<br>DV | 160M8<br>160M8   | 445<br>455  | 163<br>164                                                                          |
|               | 4.8              | 10900         | 146.91  | 66500                | 1.20      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 5.9              | 8870          | 119.86  | 69300                | 1.45      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.5              | 8090          | 109.31  | 70200                | 1.60      | R<br>RF                                                                            | 147<br>147         | DV<br>DV | 132ML6<br>132ML6 | 440<br>450  | 163<br>164                                                                          |
|               | 5.9              | 8930          | 163.31  | 69200                | 1.45      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.5              | 8040          | 146.91  | 70300                | 1.60      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 8.0              | 6560          | 119.86  | 71700                | 2.0       | R<br>RF                                                                            | 147<br>147         | DV<br>DV | 132ML6<br>132ML6 | 440<br>450  | 163<br>164                                                                          |
|               | 8.8              | 5980          | 109.31  | 72200                | 2.2       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 10               | 5180          | 94.60*  | 72800                | 2.5       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 12               | 4570          | 83.47   | 73200                | 2.9       | R<br>RF                                                                            | 137<br>137         | DV<br>DV | 160M8<br>160M8   | 315<br>340  | 161<br>162                                                                          |
|               | 5.5              | 9480          | 128.18  | 44400                | 0.85      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.2              | 8410          | 113.72  | 52200                | 0.95      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.9              | 7630          | 103.20* | 54200                | 1.05      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 8.0              | 6560          | 88.70*  | 56100                | 1.20      | R<br>RF                                                                            | 137<br>137         | DV<br>DV | 132ML6<br>132ML6 | 310<br>335  | 161<br>162                                                                          |
|               | 5.5              | 9540          | 174.40* | 43300                | 0.85      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.1              | 8550          | 156.31  | 51600                | 0.95      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.8              | 7720          | 141.12* | 54000                | 1.05      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 7.5              | 7010          | 128.18  | 55300                | 1.15      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 8.4              | 6220          | 113.72  | 56700                | 1.30      | R<br>RF                                                                            | 137<br>137         | DV<br>DV | 132S4<br>132S4   | 295<br>320  | 161<br>162                                                                          |
|               | 9.3              | 5650          | 103.20* | 57600                | 1.40      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 6.4              | 8180          | 222.60* | 53000                | 1.00      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 7.6              | 6920          | 188.45  | 55500                | 1.15      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 8.2              | 6410          | 174.40* | 56400                | 1.25      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 9.2              | 5740          | 156.31  | 57400                | 1.40      | R<br>RF                                                                            | 137<br>137         | DV<br>DV | 132S4<br>132S4   | 295<br>320  | 161<br>162                                                                          |
|               | 10               | 5180          | 141.12* | 58200                | 1.55      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 11               | 4710          | 128.18  | 58800                | 1.70      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 13               | 4180          | 113.72  | 59300                | 1.90      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 14               | 3790          | 103.20* | 59700                | 2.1       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 16               | 3260          | 88.70*  | 60200                | 2.5       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 18               | 2970          | 80.91*  | 60400                | 2.7       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 19               | 2700          | 73.49   | 60500                | 3.0       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 22               | 2390          | 65.20   | 60700                | 3.3       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 24               | 2170          | 59.17*  | 60900                | 3.7       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 28               | 1870          | 50.86*  | 61000                | 4.3       | R<br>RF                                                                            | 107<br>107         | DV<br>DV | 132S4<br>132S4   | 195<br>205  | 159<br>160                                                                          |
|               | 11               | 4690          | 127.68  | 27100                | 0.90      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 12               | 4250          | 115.63  | 29800                | 1.00      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 14               | 3770          | 102.53  | 32100                | 1.15      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 15               | 3400          | 92.70   | 33500                | 1.25      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 18               | 2890          | 78.57   | 33500                | 1.50      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 20               | 2680          | 72.88   | 32900                | 1.60      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 22               | 2410          | 65.60*  | 32100                | 1.80      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 24               | 2180          | 59.41   | 31300                | 1.95      |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 27               | 1930          | 52.68   | 30300                | 2.2       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 30               | 1750          | 47.63   | 29500                | 2.5       |                                                                                    |                    |          |                  |             |                                                                                     |
|               | 35               | 1480          | 40.37*  | 28200                | 2.9       |                                                                                    |                    |          |                  |             |                                                                                     |

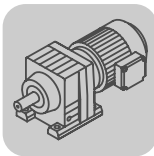


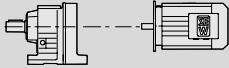
# R..DR/DT/DV R..D.. [kW]

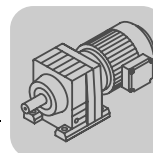
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |          |                | m<br>[kg]  |  |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----------|----------------|------------|-------------------------------------------------------------------------------------|
| 5.5                    | 17                        | 3050                   | 83.15  | 17600                                | 1.00               | R<br>RF                                                                            | 97<br>97 | DV<br>DV | 132S4<br>132S4 | 140<br>155 | 157<br>158                                                                          |
|                        | 20                        | 2650                   | 72.17  | 21800                                | 1.15               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 22                        | 2390                   | 65.21  | 24600                                | 1.25               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 24                        | 2200                   | 59.92  | 24200                                | 1.35               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 27                        | 1950                   | 53.21  | 23600                                | 1.55               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 30                        | 1750                   | 47.58  | 23000                                | 1.70               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 33                        | 1570                   | 42.78  | 22500                                | 1.90               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 39                        | 1360                   | 37.13  | 21700                                | 2.2                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 43                        | 1220                   | 33.25  | 21100                                | 2.4                | R<br>RF                                                                            | 97<br>97 | DV<br>DV | 132S4<br>132S4 | 135<br>155 | 157<br>158                                                                          |
|                        | 52                        | 1010                   | 27.58  | 20100                                | 2.6                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 45                        | 1180                   | 32.05  | 20900                                | 2.2                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 53                        | 1000                   | 27.19  | 20000                                | 2.6                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 57                        | 920                    | 25.03  | 19600                                | 3.1                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 64                        | 820                    | 22.37  | 19000                                | 3.3                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 71                        | 740                    | 20.14  | 18400                                | 3.5                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 78                        | 670                    | 18.24  | 17900                                | 3.7                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 88                        | 595                    | 16.17  | 17300                                | 4.0                | R<br>RF                                                                            | 87<br>87 | DV<br>DV | 132S4<br>132S4 | 97<br>105  | 154<br>155                                                                          |
|                        | 30                        | 1750                   | 47.58  | 15400                                | 0.90               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 34                        | 1530                   | 41.74  | 17000                                | 1.00               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 39                        | 1350                   | 36.84* | 17200                                | 1.15               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 44                        | 1200                   | 32.66* | 16700                                | 1.30               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 51                        | 1020                   | 27.88  | 16100                                | 1.45               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 51                        | 1020                   | 27.84* | 16100                                | 1.50               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 61                        | 860                    | 23.40  | 15500                                | 1.80               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 66                        | 790                    | 21.51  | 15200                                | 1.90               | R<br>RF                                                                            | 87<br>87 | DV<br>DV | 132S4<br>132S4 | 96<br>105  | 154<br>155                                                                          |
|                        | 75                        | 700                    | 19.10  | 14700                                | 2.1                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 84                        | 625                    | 17.08* | 14300                                | 2.2                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 93                        | 565                    | 15.35  | 13900                                | 2.4                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 107                       | 490                    | 13.33  | 13400                                | 2.6                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 120                       | 440                    | 11.93  | 13000                                | 2.8                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 144                       | 365                    | 9.90*  | 12300                                | 3.3                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 156                       | 335                    | 9.14*  | 12200                                | 3.6                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 174                       | 300                    | 8.22   | 11800                                | 3.8                | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 132S4<br>132S4 | 71<br>77   | 151<br>152                                                                          |
|                        | 200                       | 260                    | 7.13   | 11300                                | 4.1                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 76                        | 690                    | 18.80  | 9240                                 | 1.15               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 80                        | 655                    | 17.82* | 9400                                 | 1.20               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 92                        | 575                    | 15.60  | 9150                                 | 1.30               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 102                       | 515                    | 14.05  | 8950                                 | 1.40               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 116                       | 455                    | 12.33  | 8690                                 | 1.50               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 131                       | 400                    | 10.88  | 8440                                 | 1.65               | R<br>RF                                                                            | 77<br>77 | DV<br>DV | 132S4<br>132S4 | 71<br>77   | 151<br>152                                                                          |
|                        | 148                       | 355                    | 9.64   | 8190                                 | 1.80               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 166                       | 315                    | 8.59   | 8080                                 | 2.0                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 185                       | 285                    | 7.74   | 7860                                 | 2.2                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 211                       | 250                    | 6.79   | 7580                                 | 2.3                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 239                       | 220                    | 5.99*  | 7320                                 | 2.5                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 269                       | 195                    | 5.31*  | 7070                                 | 2.6                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 91                        | 580                    | 15.79  | 6610                                 | 0.95               | R<br>RF                                                                            | 67<br>67 | DV<br>DV | 132S4<br>132S4 | 64<br>67   | 148<br>149                                                                          |
|                        | 96                        | 550                    | 14.91  | 6900                                 | 1.00               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 113                       | 465                    | 12.70  | 6810                                 | 1.10               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 124                       | 425                    | 11.54  | 6690                                 | 1.20               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 143                       | 365                    | 10.00  | 6500                                 | 1.30               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 164                       | 320                    | 8.70*  | 6310                                 | 1.40               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 183                       | 285                    | 7.79   | 6180                                 | 1.35               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 194                       | 270                    | 7.36*  | 6100                                 | 1.35               | R<br>RF                                                                            | 67<br>67 | DV<br>DV | 132S2<br>132S2 | 64<br>67   | 148<br>149                                                                          |
|                        | 228                       | 230                    | 6.27   | 5860                                 | 1.45               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 251                       | 210                    | 5.70   | 5720                                 | 1.50               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 290                       | 181                    | 4.93   | 5510                                 | 1.60               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 333                       | 158                    | 4.29   | 5310                                 | 1.70               |                                                                                    |          |          |                |            |                                                                                     |
|                        | 331                       | 159                    | 8.70*  | 5300                                 | 2.8                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 369                       | 142                    | 7.79   | 5160                                 | 2.7                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 391                       | 134                    | 7.36*  | 5080                                 | 2.8                | R<br>RF                                                                            | 67<br>67 | DV<br>DV | 132S2<br>132S2 | 64<br>67   | 148<br>149                                                                          |
|                        | 460                       | 114                    | 6.27   | 4860                                 | 2.9                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 506                       | 104                    | 5.70   | 4730                                 | 3.0                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 584                       | 90                     | 4.93   | 4540                                 | 3.2                |                                                                                    |          |          |                |            |                                                                                     |
|                        | 671                       | 78                     | 4.29   | 4350                                 | 3.5                |                                                                                    |          |          |                |            |                                                                                     |



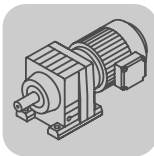
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |            |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|------------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 5.5           | 97               | 545           | 14.77* | 1730                 | 0.80      | R<br>RF                                                                            | 57<br>57   | DV<br>DV | 132S4<br>132S4 | 58          | 145                                                                                 |
|               | 103              | 510           | 13.95* | 2070                 | 0.85      |                                                                                    |            |          |                | 61          | 146                                                                                 |
|               | 120              | 435           | 11.88  | 2900                 | 0.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 132              | 395           | 10.79  | 3270                 | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 153              | 345           | 9.35   | 3240                 | 1.10      | R<br>RF                                                                            | 57<br>57   | DV<br>DV | 132S4<br>132S4 | 58          | 145                                                                                 |
|               | 179              | 295           | 7.97   | 3220                 | 1.20      |                                                                                    |            |          |                | 61          | 146                                                                                 |
|               | 190              | 275           | 7.53   | 3200                 | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 223              | 235           | 6.41   | 3120                 | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 246              | 215           | 5.82   | 3080                 | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 283              | 185           | 5.05   | 3000                 | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 326              | 161           | 4.39   | 2920                 | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               |                  |               |        |                      |           |                                                                                    |            |          |                |             |                                                                                     |
|               | 308              | 171           | 9.35   | 2930                 | 2.2       | R<br>RF                                                                            | 57<br>57   | DV<br>DV | 132S2<br>132S2 | 58          | 145                                                                                 |
|               | 361              | 145           | 7.97   | 2850                 | 2.4       |                                                                                    |            |          |                | 61          | 146                                                                                 |
|               | 383              | 137           | 7.53   | 2820                 | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 449              | 117           | 6.41   | 2720                 | 2.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 494              | 106           | 5.82   | 2660                 | 3.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 571              | 92            | 5.05   | 2560                 | 3.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 656              | 80            | 4.39   | 2470                 | 3.5       |                                                                                    |            |          |                |             |                                                                                     |
|               |                  |               |        |                      |           |                                                                                    |            |          |                |             |                                                                                     |
|               | 295              | 178           | 4.85   | 1870                 | 0.85      | R<br>RF                                                                            | 47<br>47   | DV<br>DV | 132S4<br>132S4 | 53          | 142                                                                                 |
|               | 330              | 159           | 4.34   | 2110                 | 0.90      |                                                                                    |            |          |                | 53          | 143                                                                                 |
|               | 373              | 141           | 3.83   | 2080                 | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 230              | 230           | 12.54  | 1730                 | 1.10      | R<br>RF                                                                            | 47<br>47   | DV<br>DV | 132S2<br>132S2 | 53          | 142                                                                                 |
|               | 244              | 215           | 11.79  | 1910                 | 1.15      |                                                                                    |            |          |                | 53          | 143                                                                                 |
|               | 284              | 185           | 10.15  | 2250                 | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 318              | 165           | 9.07   | 2220                 | 1.35      |                                                                                    |            |          |                |             |                                                                                     |
|               | 359              | 146           | 8.01   | 2170                 | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 480              | 109           | 6.00   | 2000                 | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 511              | 103           | 5.64*  | 1970                 | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 593              | 89            | 4.85   | 1920                 | 1.70      |                                                                                    |            |          |                |             |                                                                                     |
|               | 664              | 79            | 4.34   | 1870                 | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
|               | 752              | 70            | 3.83   | 1820                 | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               |                  |               |        |                      |           |                                                                                    |            |          |                |             |                                                                                     |
|               |                  |               |        |                      |           |                                                                                    |            |          |                |             |                                                                                     |
|               | 216              | 245           | 6.63*  | 10500                | 1.90      | RX<br>RXF                                                                          | 107<br>107 | DV<br>DV | 132S4<br>132S4 | 135         | 128                                                                                 |
|               | 255              | 205           | 5.61   | 9980                 | 2.2       |                                                                                    |            |          |                | 150         | 129                                                                                 |
|               | 276              | 191           | 5.19   | 9760                 | 3.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 307              | 171           | 4.65   | 9460                 | 4.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 247              | 215           | 5.79   | 8380                 | 1.95      | RX<br>RXF                                                                          | 97<br>97   | DV<br>DV | 132S4<br>132S4 | 105         | 126                                                                                 |
|               | 291              | 180           | 4.91   | 8010                 | 2.2       |                                                                                    |            |          |                | 110         | 127                                                                                 |
|               | 316              | 166           | 4.52   | 7820                 | 3.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 354              | 149           | 4.04   | 7580                 | 4.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 393              | 134           | 3.64*  | 7350                 | 4.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 434              | 121           | 3.30   | 7140                 | 4.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 489              | 107           | 2.92   | 6890                 | 5.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 541              | 97            | 2.64   | 6690                 | 6.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 638              | 82            | 2.24*  | 6360                 | 7.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 731              | 72            | 1.96   | 6110                 | 7.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 874              | 60            | 1.64   | 5780                 | 8.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 1010             | 52            | 1.42   | 5530                 | 8.8       |                                                                                    |            |          |                |             |                                                                                     |
|               | 318              | 165           | 4.50*  | 6040                 | 1.75      | RX<br>RXF                                                                          | 87<br>87   | DV<br>DV | 132S4<br>132S4 | 77          | 124                                                                                 |
|               | 378              | 139           | 3.78   | 5770                 | 2.2       |                                                                                    |            |          |                | 82          | 125                                                                                 |
|               | 411              | 128           | 3.48   | 5640                 | 3.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 463              | 113           | 3.09   | 5460                 | 3.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 518              | 101           | 2.76*  | 5290                 | 4.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 576              | 91            | 2.48   | 5130                 | 4.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 664              | 79            | 2.15   | 4930                 | 4.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 440              | 119           | 3.25*  | 4220                 | 1.50      | RX<br>RXF                                                                          | 77<br>77   | DV<br>DV | 132S4<br>132S4 | 62          | 122                                                                                 |
|               | 464              | 113           | 3.08*  | 4160                 | 1.70      |                                                                                    |            |          |                | 65          | 123                                                                                 |
|               | 530              | 99            | 2.70   | 4030                 | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 589              | 89            | 2.43   | 3920                 | 2.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 671              | 78            | 2.13   | 3780                 | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 761              | 69            | 1.88*  | 3660                 | 2.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 858              | 61            | 1.67   | 3540                 | 2.8       |                                                                                    |            |          |                |             |                                                                                     |
|               | 1005             | 52            | 1.42   | 3380                 | 3.0       |                                                                                    |            |          |                |             |                                                                                     |

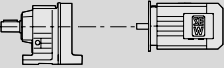


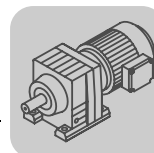
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                |           |              | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|----------------|-----------|--------------|-------------|-------------------------------------------------------------------------------------|
| <b>5.5</b>    | <b>563</b>       | 93            | 2.54    | 2550                 | 1.25      | <b>RX</b>                                                                          | <b>67</b>      | <b>DV</b> | <b>132S4</b> | 52          | 120                                                                                 |
|               | <b>596</b>       | 88            | 2.40*   | 2520                 | 1.40      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>700</b>       | 75            | 2.04    | 2430                 | 1.80      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>770</b>       | 68            | 1.86    | 2380                 | 1.85      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>889</b>       | 59            | 1.61    | 2300                 | 1.95      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>1020</b>      | 51            | 1.40*   | 2220                 | 2.0       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>700</b>       | 75            | 2.04    | 665                  | 0.90      | <b>RX</b>                                                                          | <b>57</b>      | <b>DV</b> | <b>132S4</b> | 49          | 118                                                                                 |
|               | <b>745</b>       | 71            | 1.92*   | 755                  | 1.00      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>866</b>       | 61            | 1.65    | 940                  | 1.15      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>969</b>       | 54            | 1.48    | 1020                 | 1.25      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>1095</b>      | 48            | 1.30    | 1160                 | 1.30      |                                                                                    |                |           |              |             |                                                                                     |
| <b>7.5</b>    | <b>2.8</b>       | 23400         | 503     | 120000               | 0.75      | <b>R</b>                                                                           | <b>167 R97</b> | <b>DV</b> | <b>132M4</b> | 800         | 167                                                                                 |
|               | <b>3.3</b>       | 19900         | 432     | 120000               | 0.90      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>3.8</b>       | 17500         | 376     | 120000               | 1.05      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>4.3</b>       | 15600         | 335     | 120000               | 1.15      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>4.7</b>       | 14000         | 303     | 120000               | 1.30      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>5.1</b>       | 12900         | 279     | 120000               | 1.40      | <b>R</b>                                                                           | <b>147 R87</b> | <b>DV</b> | <b>132M4</b> | 495         | 167                                                                                 |
|               | <b>4.4</b>       | 15200         | 326     | 47300                | 0.85      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>5.1</b>       | 13000         | 280     | 62600                | 1.00      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>5.8</b>       | 11500         | 247     | 65400                | 1.15      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>6.7</b>       | 9940          | 214     | 67900                | 1.30      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>7.6</b>       | 8790          | 189     | 69400                | 1.50      | <b>R</b>                                                                           | <b>167</b>     | <b>DV</b> | <b>160L8</b> | 730         | 165                                                                                 |
|               | <b>9.0</b>       | 7390          | 159     | 71000                | 1.75      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>3.1</b>       | 22900         | 229.71  | 120000               | 0.80      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>3.9</b>       | 18600         | 186.93* | 120000               | 0.95      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>4.7</b>       | 15200         | 153.07  | 120000               | 1.20      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>5.1</b>       | 13900         | 139.98  | 120000               | 1.30      | <b>R</b>                                                                           | <b>167</b>     | <b>DV</b> | <b>160M6</b> | 700         | 165                                                                                 |
|               | <b>5.9</b>       | 12100         | 121.81* | 120000               | 1.50      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>4.2</b>       | 17100         | 229.71  | 120000               | 1.05      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>5.1</b>       | 13900         | 186.93* | 120000               | 1.30      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>6.3</b>       | 11400         | 153.07  | 120000               | 1.60      | <b>R</b>                                                                           | <b>167</b>     | <b>DV</b> | <b>160M6</b> | 700         | 165                                                                                 |
|               | <b>6.9</b>       | 10400         | 139.98  | 120000               | 1.70      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>7.9</b>       | 9090          | 121.81* | 120000               | 2.0       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>8.9</b>       | 8020          | 107.49  | 120000               | 2.2       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>10</b>        | 6950          | 93.19   | 120000               | 2.6       | <b>R</b>                                                                           | <b>147</b>     | <b>DV</b> | <b>160L8</b> | 480         | 163                                                                                 |
|               | <b>12</b>        | 6190          | 82.91*  | 120000               | 2.9       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>13</b>        | 5500          | 73.70*  | 120000               | 3.3       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>14</b>        | 5030          | 67.40   | 120000               | 3.6       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>4.4</b>       | 16200         | 163.31  | 32800                | 0.80      | <b>R</b>                                                                           | <b>147</b>     | <b>DV</b> | <b>160M6</b> | 445         | 163                                                                                 |
|               | <b>4.9</b>       | 14600         | 146.91  | 55100                | 0.90      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>6.0</b>       | 11900         | 119.86  | 64700                | 1.10      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>6.6</b>       | 10900         | 109.31  | 66500                | 1.20      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>5.9</b>       | 12200         | 163.31  | 64200                | 1.05      | <b>R</b>                                                                           | <b>147</b>     | <b>DV</b> | <b>160M6</b> | 445         | 164                                                                                 |
|               | <b>6.5</b>       | 11000         | 146.91  | 66300                | 1.20      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>8.0</b>       | 8940          | 119.86  | 69200                | 1.45      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>8.8</b>       | 8150          | 109.31  | 70100                | 1.60      | <b>R</b>                                                                           | <b>137</b>     | <b>DV</b> | <b>132M4</b> | 305         | 161                                                                                 |
|               | <b>10</b>        | 7060          | 94.60*  | 71300                | 1.85      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>12</b>        | 6230          | 83.47   | 72000                | 2.1       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>7.6</b>       | 9440          | 188.45  | 45300                | 0.85      | <b>R</b>                                                                           | <b>137</b>     | <b>DV</b> | <b>132M4</b> | 325         | 162                                                                                 |
|               | <b>8.2</b>       | 8730          | 174.40* | 50800                | 0.90      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>9.2</b>       | 7830          | 156.31  | 53700                | 1.00      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>10</b>        | 7070          | 141.12* | 55200                | 1.15      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>11</b>        | 6420          | 128.18  | 56400                | 1.25      | <b>R</b>                                                                           | <b>137</b>     | <b>DV</b> | <b>132M4</b> | 305         | 161                                                                                 |
|               | <b>13</b>        | 5700          | 113.72  | 57500                | 1.40      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>14</b>        | 5170          | 103.20* | 58200                | 1.55      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>16</b>        | 4440          | 88.70*  | 59100                | 1.80      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>18</b>        | 4050          | 80.91*  | 59500                | 1.95      |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>19</b>        | 3680          | 73.49   | 59800                | 2.2       | <b>R</b>                                                                           | <b>137</b>     | <b>DV</b> | <b>132M4</b> | 325         | 162                                                                                 |
|               | <b>22</b>        | 3270          | 65.20   | 60100                | 2.5       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>24</b>        | 2960          | 59.17*  | 60400                | 2.7       |                                                                                    |                |           |              |             |                                                                                     |
|               | <b>28</b>        | 2550          | 50.86*  | 60600                | 3.1       |                                                                                    |                |           |              |             |                                                                                     |

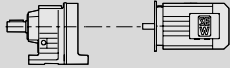


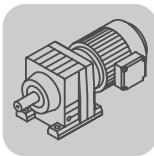
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | i      | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  | $m$<br>[kg] |  |                |            |            |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|----------------|------------|------------|
| 7.5           | 15               | 4640          | 92.70  | 27500                | 0.95      | R<br>RF                                                                            | 107<br>107  | DV<br>DV                                                                            | 132M4<br>132M4 | 215<br>225 | 159<br>160 |
|               | 18               | 3940          | 78.57  | 31300                | 1.10      |                                                                                    |             |                                                                                     |                |            |            |
|               | 20               | 3650          | 72.88  | 31300                | 1.20      |                                                                                    |             |                                                                                     |                |            |            |
|               | 22               | 3290          | 65.60* | 30600                | 1.30      |                                                                                    |             |                                                                                     |                |            |            |
|               | 24               | 2980          | 59.41  | 30000                | 1.45      |                                                                                    |             |                                                                                     |                |            |            |
|               | 27               | 2640          | 52.68  | 29200                | 1.65      |                                                                                    |             |                                                                                     |                |            |            |
|               | 30               | 2390          | 47.63  | 28500                | 1.80      |                                                                                    |             |                                                                                     |                |            |            |
|               | 35               | 2020          | 40.37* | 27300                | 2.1       |                                                                                    |             |                                                                                     |                |            |            |
|               | 41               | 1770          | 35.26  | 26400                | 2.4       | R<br>RF                                                                            | 107<br>107  | DV<br>DV                                                                            | 132M4<br>132M4 | 210<br>215 | 159<br>160 |
|               | 48               | 1480          | 29.49  | 25200                | 2.9       |                                                                                    |             |                                                                                     |                |            |            |
|               | 46               | 1540          | 30.77  | 25500                | 2.8       |                                                                                    |             |                                                                                     |                |            |            |
|               | 52               | 1380          | 27.58  | 24700                | 3.1       |                                                                                    |             |                                                                                     |                |            |            |
|               | 57               | 1250          | 24.90* | 24100                | 3.5       | R<br>RF                                                                            | 97<br>97    | DV<br>DV                                                                            | 132M4<br>132M4 | 160<br>175 | 157<br>158 |
|               | 63               | 1130          | 22.62  | 23400                | 3.8       |                                                                                    |             |                                                                                     |                |            |            |
|               | 24               | 3000          | 59.92  | 19700                | 1.00      |                                                                                    |             |                                                                                     |                |            |            |
|               | 27               | 2670          | 53.21  | 22200                | 1.15      |                                                                                    |             |                                                                                     |                |            |            |
|               | 30               | 2380          | 47.58  | 21800                | 1.25      |                                                                                    |             |                                                                                     |                |            |            |
|               | 33               | 2140          | 42.78  | 21300                | 1.40      | R<br>RF                                                                            | 97<br>97    | DV<br>DV                                                                            | 132M4<br>132M4 | 160<br>175 | 157<br>158 |
|               | 39               | 1860          | 37.13  | 20700                | 1.60      |                                                                                    |             |                                                                                     |                |            |            |
|               | 43               | 1670          | 33.25  | 20200                | 1.75      |                                                                                    |             |                                                                                     |                |            |            |
|               | 52               | 1380          | 27.58  | 19400                | 1.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 45               | 1610          | 32.05  | 20000                | 1.60      | R<br>RF                                                                            | 97<br>97    | DV<br>DV                                                                            | 132M4<br>132M4 | 155<br>175 | 157<br>158 |
|               | 53               | 1360          | 27.19  | 19300                | 1.90      |                                                                                    |             |                                                                                     |                |            |            |
|               | 57               | 1250          | 25.03  | 18900                | 2.3       |                                                                                    |             |                                                                                     |                |            |            |
|               | 64               | 1120          | 22.37  | 18400                | 2.4       |                                                                                    |             |                                                                                     |                |            |            |
|               | 71               | 1010          | 20.14  | 17900                | 2.6       |                                                                                    |             |                                                                                     |                |            |            |
|               | 78               | 910           | 18.24  | 17500                | 2.7       | R<br>RF                                                                            | 87<br>87    | DV<br>DV                                                                            | 132M4<br>132M4 | 120<br>125 | 154<br>155 |
|               | 39               | 1840          | 36.84* | 11500                | 0.85      |                                                                                    |             |                                                                                     |                |            |            |
|               | 44               | 1640          | 32.66* | 15700                | 0.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 51               | 1400          | 27.88  | 15200                | 1.05      |                                                                                    |             |                                                                                     |                |            |            |
|               | 51               | 1390          | 27.84* | 15200                | 1.10      | R<br>RF                                                                            | 87<br>87    | DV<br>DV                                                                            | 132M4<br>132M4 | 120<br>125 | 154<br>155 |
|               | 61               | 1170          | 23.40  | 14700                | 1.30      |                                                                                    |             |                                                                                     |                |            |            |
|               | 66               | 1080          | 21.51  | 14500                | 1.40      |                                                                                    |             |                                                                                     |                |            |            |
|               | 75               | 960           | 19.10  | 14100                | 1.50      |                                                                                    |             |                                                                                     |                |            |            |
|               | 84               | 860           | 17.08* | 13700                | 1.65      |                                                                                    |             |                                                                                     |                |            |            |
|               | 93               | 770           | 15.35  | 12500                | 1.75      |                                                                                    |             |                                                                                     |                |            |            |
|               | 107              | 670           | 13.33  | 12900                | 1.90      |                                                                                    |             |                                                                                     |                |            |            |
|               | 120              | 600           | 11.93  | 12600                | 2.1       |                                                                                    |             |                                                                                     |                |            |            |
|               | 144              | 495           | 9.90*  | 12000                | 2.4       |                                                                                    |             |                                                                                     |                |            |            |
|               | 156              | 460           | 9.14*  | 11900                | 2.6       |                                                                                    |             |                                                                                     |                |            |            |
|               | 174              | 410           | 8.22   | 11600                | 2.8       |                                                                                    |             |                                                                                     |                |            |            |
|               | 200              | 355           | 7.13   | 11100                | 3.0       |                                                                                    |             |                                                                                     |                |            |            |
|               | 224              | 320           | 6.39   | 10800                | 3.2       |                                                                                    |             |                                                                                     |                |            |            |
|               | 270              | 265           | 5.30*  | 10200                | 3.4       |                                                                                    |             |                                                                                     |                |            |            |
|               | 76               | 940           | 18.80  | 5310                 | 0.85      | R<br>RF                                                                            | 77<br>77    | DV<br>DV                                                                            | 132M4<br>132M4 | 92<br>98   | 151<br>152 |
|               | 80               | 890           | 17.82* | 5720                 | 0.85      |                                                                                    |             |                                                                                     |                |            |            |
|               | 92               | 780           | 15.60  | 6610                 | 0.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 102              | 705           | 14.05  | 7180                 | 1.00      |                                                                                    |             |                                                                                     |                |            |            |
|               | 116              | 615           | 12.33  | 7750                 | 1.10      |                                                                                    |             |                                                                                     |                |            |            |
|               | 131              | 545           | 10.88  | 8010                 | 1.20      |                                                                                    |             |                                                                                     |                |            |            |
|               | 148              | 485           | 9.64   | 7810                 | 1.30      |                                                                                    |             |                                                                                     |                |            |            |
|               | 166              | 430           | 8.59   | 7620                 | 1.45      |                                                                                    |             |                                                                                     |                |            |            |
|               | 185              | 390           | 7.74   | 7590                 | 1.55      |                                                                                    |             |                                                                                     |                |            |            |
|               | 211              | 340           | 6.79   | 7340                 | 1.70      |                                                                                    |             |                                                                                     |                |            |            |
|               | 239              | 300           | 5.99*  | 7110                 | 1.80      |                                                                                    |             |                                                                                     |                |            |            |
|               | 269              | 265           | 5.31*  | 6890                 | 1.90      |                                                                                    |             |                                                                                     |                |            |            |
|               | 113              | 635           | 12.70  | 4240                 | 0.80      |                                                                                    |             |                                                                                     |                |            |            |
|               | 124              | 580           | 11.54  | 4860                 | 0.85      |                                                                                    |             |                                                                                     |                |            |            |
|               | 143              | 500           | 10.00  | 5620                 | 0.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 164              | 435           | 8.70*  | 5930                 | 1.00      |                                                                                    |             |                                                                                     |                |            |            |
|               | 183              | 390           | 7.79   | 5500                 | 0.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 194              | 370           | 7.36*  | 5720                 | 1.00      |                                                                                    |             |                                                                                     |                |            |            |
|               | 228              | 315           | 6.27   | 5600                 | 1.05      |                                                                                    |             |                                                                                     |                |            |            |
|               | 251              | 285           | 5.70   | 5480                 | 1.10      |                                                                                    |             |                                                                                     |                |            |            |
|               | 290              | 245           | 4.93   | 5300                 | 1.15      |                                                                                    |             |                                                                                     |                |            |            |
|               | 333              | 215           | 4.29   | 5130                 | 1.25      |                                                                                    |             |                                                                                     |                |            |            |



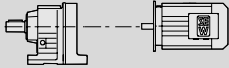
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |                |           |               | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|----------------|-----------|---------------|-------------|-------------------------------------------------------------------------------------|
| <b>7.5</b>    | <b>179</b>       | 400           | 7.97   | 980                  | 0.90      | <b>R</b>                                                                           | <b>57</b>      | <b>DV</b> | <b>132M4</b>  | 81          | 145                                                                                 |
|               | <b>190</b>       | 375           | 7.53   | 1280                 | 0.95      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>223</b>       | 320           | 6.41   | 2020                 | 1.05      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>246</b>       | 290           | 5.82   | 2380                 | 1.10      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>283</b>       | 255           | 5.05   | 2760                 | 1.20      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>326</b>       | 220           | 4.39   | 2710                 | 1.25      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>196</b>       | 365           | 14.77* | 2580                 | 1.20      | <b>R</b>                                                                           | <b>57</b>      | <b>DV</b> | <b>132M2</b>  | 87          | 145                                                                                 |
|               | <b>208</b>       | 345           | 13.95* | 2780                 | 1.25      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>244</b>       | 295           | 11.88  | 2780                 | 1.40      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>269</b>       | 265           | 10.79  | 2750                 | 1.45      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>310</b>       | 230           | 9.35   | 2710                 | 1.60      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>364</b>       | 197           | 7.97   | 2670                 | 1.80      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>385</b>       | 186           | 7.53   | 2640                 | 1.90      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>452</b>       | 158           | 6.41   | 2570                 | 2.1       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>498</b>       | 144           | 5.82   | 2520                 | 2.2       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>575</b>       | 125           | 5.05   | 2440                 | 2.5       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>660</b>       | 108           | 4.39   | 2370                 | 2.6       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>216</b>       | 330           | 6.63*  | 10100                | 1.40      | <b>RX</b>                                                                          | <b>107</b>     | <b>DV</b> | <b>132M4</b>  | 155         | 128                                                                                 |
|               | <b>255</b>       | 280           | 5.61   | 9690                 | 1.60      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>276</b>       | 260           | 5.19   | 9490                 | 2.7       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>307</b>       | 235           | 4.65   | 9210                 | 3.0       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>340</b>       | 210           | 4.20*  | 8950                 | 3.9       | <b>RX</b>                                                                          | <b>97</b>      | <b>DV</b> | <b>132M4</b>  | 125         | 126                                                                                 |
|               | <b>247</b>       | 290           | 5.79   | 8080                 | 1.45      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>291</b>       | 245           | 4.91   | 7750                 | 1.60      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>316</b>       | 225           | 4.52   | 7580                 | 2.6       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>354</b>       | 205           | 4.04   | 7360                 | 2.9       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>393</b>       | 182           | 3.64*  | 7160                 | 3.3       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>434</b>       | 165           | 3.30   | 6960                 | 3.6       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>489</b>       | 146           | 2.92   | 6730                 | 4.1       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>318</b>       | 225           | 4.50*  | 5760                 | 1.30      | <b>RX</b>                                                                          | <b>87</b>      | <b>DV</b> | <b>132M4</b>  | 99          | 124                                                                                 |
|               | <b>378</b>       | 189           | 3.78   | 5530                 | 1.60      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>411</b>       | 174           | 3.48   | 5420                 | 2.3       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>463</b>       | 155           | 3.09   | 5260                 | 2.6       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>518</b>       | 138           | 2.76*  | 5110                 | 2.9       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>576</b>       | 124           | 2.48   | 4970                 | 3.3       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>664</b>       | 108           | 2.15   | 4780                 | 3.6       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>741</b>       | 97            | 1.93   | 4640                 | 3.7       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>894</b>       | 80            | 1.60*  | 4400                 | 3.9       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>1030</b>      | 70            | 1.39   | 4230                 | 4.2       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>440</b>       | 163           | 3.25*  | 3820                 | 1.10      | <b>RX</b>                                                                          | <b>77</b>      | <b>DV</b> | <b>132M4</b>  | 83          | 122                                                                                 |
|               | <b>464</b>       | 154           | 3.08*  | 3890                 | 1.25      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>530</b>       | 135           | 2.70   | 3820                 | 1.60      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>589</b>       | 122           | 2.43   | 3730                 | 1.75      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>671</b>       | 107           | 2.13   | 3620                 | 1.85      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>761</b>       | 94            | 1.88*  | 3510                 | 2.0       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>858</b>       | 84            | 1.67   | 3400                 | 2.1       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>1005</b>      | 71            | 1.42   | 3260                 | 2.2       |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>563</b>       | 127           | 2.54   | 1500                 | 0.95      | <b>RX</b>                                                                          | <b>67</b>      | <b>DV</b> | <b>132M4</b>  | 75          | 120                                                                                 |
|               | <b>596</b>       | 120           | 2.40*  | 1610                 | 1.00      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>700</b>       | 102           | 2.04   | 1810                 | 1.30      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>770</b>       | 93            | 1.86   | 1930                 | 1.35      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>889</b>       | 81            | 1.61   | 2060                 | 1.40      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>1020</b>      | 70            | 1.40*  | 2080                 | 1.50      |                                                                                    |                |           |               |             |                                                                                     |
| <b>9.2</b>    | <b>3.8</b>       | 21400         | 376    | 120000               | 0.85      | <b>R</b>                                                                           | <b>167 R97</b> | <b>DV</b> | <b>132ML4</b> | 810         | 167                                                                                 |
|               | <b>4.3</b>       | 19000         | 335    | 120000               | 0.95      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>4.8</b>       | 17100         | 303    | 120000               | 1.05      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>5.2</b>       | 15700         | 279    | 120000               | 1.15      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>5.1</b>       | 15900         | 280    | 37800                | 0.80      | <b>R</b>                                                                           | <b>147 R87</b> | <b>DV</b> | <b>132ML4</b> | 500         | 167                                                                                 |
|               | <b>5.8</b>       | 14000         | 247    | 60400                | 0.95      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>6.7</b>       | 12100         | 214    | 64300                | 1.05      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>7.6</b>       | 10700         | 189    | 66700                | 1.20      |                                                                                    |                |           |               |             |                                                                                     |
|               | <b>9.1</b>       | 9020          | 159    | 69100                | 1.45      |                                                                                    |                |           |               |             |                                                                                     |

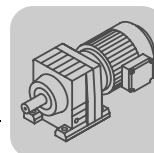


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |            |          |                  | $m$<br>[kg] |  |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|------------|----------|------------------|-------------|-------------------------------------------------------------------------------------|
| 9.2           | 8.8              | 9960          | 163.31  | 67800                | 1.30      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 132ML4<br>132ML4 | 440         | 163                                                                                 |
|               | 9.8              | 8960          | 146.91  | 69200                | 1.45      |                                                                                    |            |          |                  | 450         | 164                                                                                 |
|               | 12               | 7310          | 119.86  | 71000                | 1.80      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 13               | 6670          | 109.31  | 71600                | 1.95      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 132ML4<br>132ML4 | 440         | 163                                                                                 |
|               | 15               | 5770          | 94.60*  | 72400                | 2.3       |                                                                                    |            |          |                  | 450         | 164                                                                                 |
|               | 17               | 5090          | 83.47   | 72900                | 2.6       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 20               | 4400          | 72.09   | 73300                | 3.0       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 22               | 4090          | 66.99   | 73500                | 3.2       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 9.2              | 9540          | 156.31  | 43400                | 0.85      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 132ML4<br>132ML4 | 310         | 161                                                                                 |
|               | 10               | 8610          | 141.12* | 51400                | 0.95      |                                                                                    |            |          |                  | 335         | 162                                                                                 |
|               | 11               | 7820          | 128.18  | 53800                | 1.00      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 13               | 6940          | 113.72  | 55500                | 1.15      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 14               | 6300          | 103.20* | 56600                | 1.25      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 132ML4<br>132ML4 | 310         | 161                                                                                 |
|               | 16               | 5410          | 88.70*  | 57900                | 1.50      |                                                                                    |            |          |                  | 335         | 162                                                                                 |
|               | 18               | 4940          | 80.91*  | 58500                | 1.60      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 20               | 4480          | 73.49   | 59000                | 1.80      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 22               | 3980          | 65.20   | 59500                | 2.0       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 24               | 3610          | 59.17*  | 59900                | 2.2       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 28               | 3100          | 50.86*  | 60300                | 2.6       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 32               | 2710          | 44.39   | 60500                | 3.0       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 18               | 4790          | 78.57   | 23300                | 0.90      | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 132ML4<br>132ML4 | 225         | 159                                                                                 |
|               | 20               | 4450          | 72.88   | 28600                | 0.95      |                                                                                    |            |          |                  | 230         | 160                                                                                 |
|               | 22               | 4000          | 65.60*  | 29400                | 1.05      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 24               | 3620          | 59.41   | 28800                | 1.20      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 27               | 3210          | 52.68   | 28100                | 1.35      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 30               | 2910          | 47.63   | 27500                | 1.50      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 36               | 2460          | 40.37*  | 26500                | 1.75      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 41               | 2150          | 35.26   | 25700                | 2.0       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 49               | 1800          | 29.49   | 24600                | 2.4       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 47               | 1880          | 30.77   | 24900                | 2.3       | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 132ML4<br>132ML4 | 220         | 159                                                                                 |
|               | 52               | 1680          | 27.58   | 24200                | 2.6       |                                                                                    |            |          |                  | 225         | 160                                                                                 |
|               | 58               | 1520          | 24.90*  | 23500                | 2.8       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 64               | 1380          | 22.62   | 23000                | 3.1       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 72               | 1220          | 20.07   | 22200                | 3.5       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 27               | 3250          | 53.21   | 3280                 | 0.90      | R<br>RF                                                                            | 97<br>97   | DV<br>DV | 132ML4<br>132ML4 | 170         | 157                                                                                 |
|               | 30               | 2900          | 47.58   | 20600                | 1.05      |                                                                                    |            |          |                  | 185         | 158                                                                                 |
|               | 34               | 2610          | 42.78   | 20300                | 1.15      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 39               | 2270          | 37.13   | 19800                | 1.30      | R<br>RF                                                                            | 97<br>97   | DV<br>DV | 132ML4<br>132ML4 | 170         | 157                                                                                 |
|               | 43               | 2030          | 33.25   | 19400                | 1.40      |                                                                                    |            |          |                  | 185         | 158                                                                                 |
|               | 52               | 1680          | 27.58   | 18700                | 1.60      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 58               | 1530          | 25.03   | 18300                | 1.85      | R<br>RF                                                                            | 97<br>97   | DV<br>DV | 132ML4<br>132ML4 | 165         | 157                                                                                 |
|               | 64               | 1370          | 22.37   | 17900                | 2.0       |                                                                                    |            |          |                  | 185         | 158                                                                                 |
|               | 71               | 1230          | 20.14   | 17400                | 2.1       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 79               | 1110          | 18.24   | 17000                | 2.3       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 89               | 990           | 16.17   | 16500                | 2.4       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 98               | 890           | 14.62   | 16100                | 2.6       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 116              | 755           | 12.39   | 15400                | 2.9       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 67               | 1310          | 21.51   | 13900                | 1.15      | R<br>RF                                                                            | 87<br>87   | DV<br>DV | 132ML4<br>132ML4 | 125         | 154                                                                                 |
|               | 75               | 1170          | 19.10   | 13600                | 1.25      |                                                                                    |            |          |                  | 135         | 155                                                                                 |
|               | 84               | 1040          | 17.08*  | 13200                | 1.35      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 94               | 940           | 15.35   | 13000                | 1.45      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 108              | 810           | 13.33   | 12600                | 1.55      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 121              | 730           | 11.93   | 12200                | 1.70      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 145              | 605           | 9.90*   | 11700                | 1.95      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 158              | 560           | 9.14*   | 11700                | 2.2       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 175              | 500           | 8.22    | 11400                | 2.3       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 202              | 435           | 7.13    | 10900                | 2.5       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 225              | 390           | 6.39    | 10600                | 2.6       |                                                                                    |            |          |                  |             |                                                                                     |
|               | 102              | 860           | 14.05   | 4740                 | 0.85      | R<br>RF                                                                            | 77<br>77   | DV<br>DV | 132ML4<br>132ML4 | 100         | 151                                                                                 |
|               | 117              | 750           | 12.33   | 5610                 | 0.90      |                                                                                    |            |          |                  | 105         | 152                                                                                 |
|               | 132              | 665           | 10.88   | 6280                 | 1.00      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 149              | 590           | 9.64    | 6800                 | 1.05      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 186              | 470           | 7.74    | 6300                 | 1.30      | R<br>RF                                                                            | 77<br>77   | DV<br>DV | 132ML4<br>132ML4 | 100         | 151                                                                                 |
|               | 212              | 415           | 6.79    | 6720                 | 1.40      |                                                                                    |            |          |                  | 105         | 152                                                                                 |
|               | 240              | 365           | 5.99*   | 6920                 | 1.50      |                                                                                    |            |          |                  |             |                                                                                     |
|               | 271              | 325           | 5.31*   | 6720                 | 1.55      |                                                                                    |            |          |                  |             |                                                                                     |

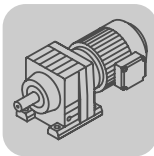


# R..DR/DT/DV R..D.. [kW]

| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |                      |          |                  | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------------------|----------|------------------|-----------|-------------------------------------------------------------------------------------|
| 9.2                    | 277                       | 315                    | 5.19    | 9240                                 | 2.2                | RX<br>RXF                                                                          | 107<br>107           | DV<br>DV | 132ML4<br>132ML4 | 165       | 128                                                                                 |
|                        | 310                       | 285                    | 4.65    | 8990                                 | 2.5                |                                                                                    |                      |          |                  | 180       | 129                                                                                 |
|                        | 343                       | 255                    | 4.20*   | 8760                                 | 3.2                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 377                       | 235                    | 3.81    | 8540                                 | 3.6                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 425                       | 205                    | 3.38    | 8270                                 | 4.0                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 318                       | 275                    | 4.52    | 7370                                 | 2.2                | RX<br>RXF                                                                          | 97<br>97             | DV<br>DV | 132ML4<br>132ML4 | 135       | 126                                                                                 |
|                        | 356                       | 245                    | 4.04    | 7170                                 | 2.4                |                                                                                    |                      |          |                  | 140       | 127                                                                                 |
|                        | 396                       | 220                    | 3.64*   | 6980                                 | 2.7                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 437                       | 200                    | 3.30    | 6800                                 | 3.0                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 493                       | 178                    | 2.92    | 6590                                 | 3.3                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 545                       | 161                    | 2.64    | 6410                                 | 3.7                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 643                       | 137                    | 2.24*   | 6120                                 | 4.4                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 736                       | 119                    | 1.96    | 5890                                 | 4.8                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 880                       | 100                    | 1.64    | 5590                                 | 5.1                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 1015                      | 86                     | 1.42    | 5360                                 | 5.3                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 414                       | 210                    | 3.48    | 5220                                 | 1.90               | RX<br>RXF                                                                          | 87<br>87             | DV<br>DV | 132ML4<br>132ML4 | 110       | 124                                                                                 |
|                        | 466                       | 188                    | 3.09    | 5080                                 | 2.2                |                                                                                    |                      |          |                  | 115       | 125                                                                                 |
|                        | 522                       | 168                    | 2.76*   | 4950                                 | 2.4                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 580                       | 151                    | 2.48    | 4820                                 | 2.7                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 669                       | 131                    | 2.15    | 4650                                 | 2.9                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 747                       | 118                    | 1.93    | 4520                                 | 3.0                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 900                       | 98                     | 1.60*   | 4300                                 | 3.2                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 1035                      | 85                     | 1.39    | 4140                                 | 3.4                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 593                       | 148                    | 2.43    | 3010                                 | 1.45               | RX<br>RXF                                                                          | 77<br>77             | DV<br>DV | 132ML4<br>132ML4 | 92        | 122                                                                                 |
|                        | 676                       | 130                    | 2.13    | 3160                                 | 1.55               |                                                                                    |                      |          |                  | 95        | 123                                                                                 |
|                        | 766                       | 115                    | 1.88*   | 3260                                 | 1.65               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 864                       | 102                    | 1.67    | 3280                                 | 1.70               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 1010                      | 87                     | 1.42    | 3160                                 | 1.80               |                                                                                    |                      |          |                  |           |                                                                                     |
| 11.0                   | 4.9                       | 19600                  | 295     | 120000                               | 0.90               | R<br>RF                                                                            | 167 R107<br>167 R107 | DV<br>DV | 160M4<br>160M4   | 860       | 167                                                                                 |
|                        | 5.3                       | 18200                  | 270     | 120000                               | 1.00               |                                                                                    |                      |          |                  | 870       | 167                                                                                 |
|                        | 6.3                       | 15400                  | 229     | 120000                               | 1.15               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 7.2                       | 13400                  | 200     | 120000                               | 1.35               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 8.5                       | 11300                  | 169     | 120000                               | 1.60               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 5.0                       | 20000                  | 291     | 120000                               | 0.90               | R<br>RF                                                                            | 167 R107<br>167 R107 | DV<br>DV | 160M4<br>160M4   | 860       | 167                                                                                 |
|                        | 4.3                       | 22800                  | 335     | 120000                               | 0.80               |                                                                                    |                      |          |                  | 860       | 167                                                                                 |
|                        | 4.8                       | 20500                  | 303     | 120000                               | 0.90               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 5.2                       | 18900                  | 279     | 120000                               | 0.95               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 5.8                       | 16800                  | 247     | 22800                                | 0.75               | R<br>RF                                                                            | 147 R87<br>147 R87   | DV<br>DV | 160M4<br>160M4   | 510       | 167                                                                                 |
|                        | 6.7                       | 14500                  | 214     | 56000                                | 0.90               |                                                                                    |                      |          |                  | 520       | 167                                                                                 |
|                        | 7.6                       | 12900                  | 189     | 63000                                | 1.00               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 9.1                       | 10800                  | 159     | 66600                                | 1.20               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 5.1                       | 20500                  | 186.93* | 120000                               | 0.90               | R<br>RF                                                                            | 167<br>167           | DV<br>DV | 160L6<br>160L6   | 730       | 165                                                                                 |
|                        | 6.3                       | 16700                  | 153.07  | 120000                               | 1.05               |                                                                                    |                      |          |                  | 740       | 166                                                                                 |
|                        | 6.9                       | 15300                  | 139.98  | 120000                               | 1.20               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 7.9                       | 13300                  | 121.81* | 120000                               | 1.35               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 6.3                       | 16800                  | 229.71  | 120000                               | 1.05               | R<br>RF                                                                            | 167<br>167           | DV<br>DV | 160M4<br>160M4   | 700       | 165                                                                                 |
|                        | 7.7                       | 13600                  | 186.93* | 120000                               | 1.30               |                                                                                    |                      |          |                  | 700       | 166                                                                                 |
|                        | 9.4                       | 11200                  | 153.07  | 120000                               | 1.60               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 10                        | 10200                  | 139.98  | 120000                               | 1.75               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 12                        | 8890                   | 121.81* | 120000                               | 2.0                | R<br>RF                                                                            | 167<br>167           | DV<br>DV | 160M4<br>160M4   | 700       | 165                                                                                 |
|                        | 13                        | 7840                   | 107.49  | 120000                               | 2.3                |                                                                                    |                      |          |                  | 700       | 166                                                                                 |
|                        | 15                        | 6800                   | 93.19   | 120000                               | 2.7                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 17                        | 6050                   | 82.91*  | 120000                               | 3.0                |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 6.5                       | 16100                  | 146.91  | 35400                                | 0.80               | R<br>RF                                                                            | 147<br>147           | DV<br>DV | 160L6<br>160L6   | 480       | 163                                                                                 |
|                        | 8.0                       | 13100                  | 119.86  | 62400                                | 1.00               |                                                                                    |                      |          |                  | 490       | 164                                                                                 |
|                        | 8.8                       | 12000                  | 109.31  | 64600                                | 1.10               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 10                        | 10400                  | 94.60*  | 67300                                | 1.25               |                                                                                    |                      |          |                  |           |                                                                                     |
|                        | 12                        | 9130                   | 83.47   | 69000                                | 1.40               |                                                                                    |                      |          |                  |           |                                                                                     |

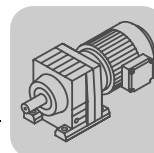


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | i       | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  | $m$<br>[kg] |  |                |            |            |
|---------------|------------------|---------------|---------|----------------------|-----------|------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|----------------|------------|------------|
| 11.0          | 8.8              | 11900         | 163.31  | 64700                | 1.10      | R<br>RF                                                                            | 147<br>147  | DV<br>DV                                                                            | 160M4<br>160M4 | 445<br>455 | 163<br>164 |
|               | 9.8              | 10700         | 146.91  | 66700                | 1.20      |                                                                                    |             |                                                                                     |                |            |            |
|               | 12               | 8740          | 119.86  | 69400                | 1.50      |                                                                                    |             |                                                                                     |                |            |            |
|               | 13               | 7970          | 109.31  | 70300                | 1.65      | R<br>RF                                                                            | 147<br>147  | DV<br>DV                                                                            | 160M4<br>160M4 | 445<br>455 | 163<br>164 |
|               | 15               | 6900          | 94.60*  | 71400                | 1.90      |                                                                                    |             |                                                                                     |                |            |            |
|               | 17               | 6090          | 83.47   | 72100                | 2.1       |                                                                                    |             |                                                                                     |                |            |            |
|               | 20               | 5260          | 72.09   | 72800                | 2.5       |                                                                                    |             |                                                                                     |                |            |            |
|               | 22               | 4890          | 66.99   | 73000                | 2.7       |                                                                                    |             |                                                                                     |                |            |            |
|               | 24               | 4460          | 61.09   | 73300                | 2.9       |                                                                                    |             |                                                                                     |                |            |            |
|               | 27               | 3860          | 52.87   | 73600                | 3.4       |                                                                                    |             |                                                                                     |                |            |            |
|               | 10               | 10300         | 141.12* | 23300                | 0.80      | R<br>RF                                                                            | 137<br>137  | DV<br>DV                                                                            | 160M4<br>160M4 | 315<br>340 | 161<br>162 |
|               | 11               | 9350          | 128.18  | 46900                | 0.85      |                                                                                    |             |                                                                                     |                |            |            |
|               | 13               | 8300          | 113.72  | 52700                | 0.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 14               | 7530          | 103.20* | 54400                | 1.05      |                                                                                    |             |                                                                                     |                |            |            |
|               | 16               | 6470          | 88.70*  | 56300                | 1.25      |                                                                                    |             |                                                                                     |                |            |            |
|               | 18               | 5900          | 80.91*  | 57200                | 1.35      |                                                                                    |             |                                                                                     |                |            |            |
|               | 20               | 5360          | 73.49   | 57900                | 1.50      |                                                                                    |             |                                                                                     |                |            |            |
|               | 22               | 4760          | 65.20   | 58700                | 1.70      |                                                                                    |             |                                                                                     |                |            |            |
|               | 24               | 4320          | 59.17*  | 59200                | 1.85      |                                                                                    |             |                                                                                     |                |            |            |
|               | 28               | 3710          | 50.86*  | 59800                | 2.2       |                                                                                    |             |                                                                                     |                |            |            |
|               | 32               | 3240          | 44.39   | 60200                | 2.5       |                                                                                    |             |                                                                                     |                |            |            |
|               | 38               | 2750          | 37.65   | 60500                | 2.9       |                                                                                    |             |                                                                                     |                |            |            |
|               | 44               | 2400          | 32.91   | 60700                | 3.3       |                                                                                    |             |                                                                                     |                |            |            |
|               | 22               | 4790          | 65.60*  | 23700                | 0.90      | R<br>RF                                                                            | 107<br>107  | DV<br>DV                                                                            | 160M4<br>160M4 | 230<br>235 | 159<br>160 |
|               | 24               | 4330          | 59.41   | 27600                | 1.00      |                                                                                    |             |                                                                                     |                |            |            |
|               | 27               | 3840          | 52.68   | 27100                | 1.10      |                                                                                    |             |                                                                                     |                |            |            |
|               | 30               | 3470          | 47.63   | 26600                | 1.25      |                                                                                    |             |                                                                                     |                |            |            |
|               | 36               | 2940          | 40.37*  | 25700                | 1.45      |                                                                                    |             |                                                                                     |                |            |            |
|               | 41               | 2570          | 35.26   | 25000                | 1.65      |                                                                                    |             |                                                                                     |                |            |            |
|               | 49               | 2150          | 29.49   | 24000                | 2.0       |                                                                                    |             |                                                                                     |                |            |            |
|               | 47               | 2240          | 30.77   | 24200                | 1.90      | R<br>RF                                                                            | 107<br>107  | DV<br>DV                                                                            | 160M4<br>160M4 | 225<br>230 | 159<br>160 |
|               | 52               | 2010          | 27.58   | 23600                | 2.1       |                                                                                    |             |                                                                                     |                |            |            |
|               | 58               | 1820          | 24.90*  | 23100                | 2.4       |                                                                                    |             |                                                                                     |                |            |            |
|               | 64               | 1650          | 22.62   | 22500                | 2.6       |                                                                                    |             |                                                                                     |                |            |            |
|               | 72               | 1460          | 20.07   | 21800                | 2.9       |                                                                                    |             |                                                                                     |                |            |            |
|               | 79               | 1330          | 18.21   | 21300                | 3.2       |                                                                                    |             |                                                                                     |                |            |            |
|               | 34               | 3120          | 42.78   | 14500                | 0.95      | R<br>RF                                                                            | 97<br>97    | DV<br>DV                                                                            | 160M4<br>160M4 | 175<br>190 | 157<br>158 |
|               | 39               | 2710          | 37.13   | 18900                | 1.10      |                                                                                    |             |                                                                                     |                |            |            |
|               | 43               | 2430          | 33.25   | 18600                | 1.20      |                                                                                    |             |                                                                                     |                |            |            |
|               | 52               | 2010          | 27.58   | 18000                | 1.35      |                                                                                    |             |                                                                                     |                |            |            |
|               | 58               | 1830          | 25.03   | 17700                | 1.55      | R<br>RF                                                                            | 97<br>97    | DV<br>DV                                                                            | 160M4<br>160M4 | 170<br>190 | 157<br>158 |
|               | 64               | 1630          | 22.37   | 17300                | 1.65      |                                                                                    |             |                                                                                     |                |            |            |
|               | 71               | 1470          | 20.14   | 16900                | 1.80      |                                                                                    |             |                                                                                     |                |            |            |
|               | 79               | 1330          | 18.24   | 16600                | 1.90      | R<br>RF                                                                            | 97<br>97    | DV<br>DV                                                                            | 160M4<br>160M4 | 170<br>190 | 157<br>158 |
|               | 89               | 1180          | 16.17   | 16100                | 2.0       |                                                                                    |             |                                                                                     |                |            |            |
|               | 98               | 1070          | 14.62   | 15700                | 2.2       |                                                                                    |             |                                                                                     |                |            |            |
|               | 116              | 900           | 12.39   | 15100                | 2.4       |                                                                                    |             |                                                                                     |                |            |            |
|               | 133              | 790           | 10.83   | 14600                | 2.7       |                                                                                    |             |                                                                                     |                |            |            |
|               | 155              | 675           | 9.29    | 14300                | 3.0       |                                                                                    |             |                                                                                     |                |            |            |
|               | 172              | 610           | 8.39    | 13900                | 3.3       |                                                                                    |             |                                                                                     |                |            |            |
|               | 202              | 520           | 7.12    | 13200                | 3.9       |                                                                                    |             |                                                                                     |                |            |            |
|               | 232              | 455           | 6.21    | 12700                | 4.2       |                                                                                    |             |                                                                                     |                |            |            |
|               | 67               | 1570          | 21.51   | 13200                | 0.95      | R<br>RF                                                                            | 87<br>87    | DV<br>DV                                                                            | 160M4<br>160M4 | 130<br>140 | 154<br>155 |
|               | 75               | 1390          | 19.10   | 13000                | 1.05      |                                                                                    |             |                                                                                     |                |            |            |
|               | 84               | 1250          | 17.08*  | 12800                | 1.10      |                                                                                    |             |                                                                                     |                |            |            |
|               | 94               | 1120          | 15.35   | 12500                | 1.20      | R<br>RF                                                                            | 87<br>87    | DV<br>DV                                                                            | 160M4<br>160M4 | 130<br>140 | 154<br>155 |
|               | 108              | 970           | 13.33   | 12200                | 1.30      |                                                                                    |             |                                                                                     |                |            |            |
|               | 121              | 870           | 11.93   | 11900                | 1.40      |                                                                                    |             |                                                                                     |                |            |            |
|               | 145              | 720           | 9.90*   | 11400                | 1.65      |                                                                                    |             |                                                                                     |                |            |            |
|               | 158              | 665           | 9.14*   | 11500                | 1.80      |                                                                                    |             |                                                                                     |                |            |            |
|               | 175              | 600           | 8.22    | 11200                | 1.95      |                                                                                    |             |                                                                                     |                |            |            |
|               | 202              | 520           | 7.13    | 10800                | 2.1       |                                                                                    |             |                                                                                     |                |            |            |
|               | 225              | 465           | 6.39    | 10400                | 2.2       |                                                                                    |             |                                                                                     |                |            |            |
|               | 272              | 385           | 5.30*   | 9910                 | 2.4       |                                                                                    |             |                                                                                     |                |            |            |

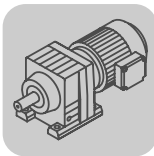


# R..DR/DT/DV R..D.. [kW]

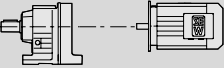
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |          |    |       | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|----------|----|-------|-----------|-------------------------------------------------------------------------------------|
| 11.0                   | 132                       | 795                    | 10.88   | 4250                                 | 0.85               | R                                                                                  | 77       | DV | 160M4 | 105       | 151                                                                                 |
|                        | 149                       | 705                    | 9.64    | 5000                                 | 0.90               | RF                                                                                 | 77       | DV | 160M4 | 110       | 152                                                                                 |
|                        | 186                       | 565                    | 7.74    | 4630                                 | 1.10               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 212                       | 495                    | 6.79    | 5250                                 | 1.15               | R                                                                                  | 77       | DV | 160M4 | 105       | 151                                                                                 |
|                        | 240                       | 435                    | 5.99*   | 5720                                 | 1.25               | RF                                                                                 | 77       | DV | 160M4 | 110       | 152                                                                                 |
|                        | 271                       | 390                    | 5.31*   | 6090                                 | 1.30               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 277                       | 380                    | 5.19    | 9000                                 | 1.85               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 310                       | 340                    | 4.65    | 8770                                 | 2.1                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 343                       | 305                    | 4.20*   | 8560                                 | 2.7                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 377                       | 280                    | 3.81    | 8360                                 | 3.0                | RX                                                                                 | 107      | DV | 160M4 | 170       | 128                                                                                 |
|                        | 425                       | 245                    | 3.38    | 8100                                 | 3.4                | RXF                                                                                | 107      | DV | 160M4 | 185       | 129                                                                                 |
|                        | 469                       | 225                    | 3.07    | 7900                                 | 3.7                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 545                       | 193                    | 2.64*   | 7580                                 | 4.3                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 318                       | 330                    | 4.52    | 7150                                 | 1.80               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 356                       | 295                    | 4.04    | 6970                                 | 2.0                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 396                       | 265                    | 3.64*   | 6800                                 | 2.2                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 437                       | 240                    | 3.30    | 6640                                 | 2.5                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 493                       | 215                    | 2.92    | 6440                                 | 2.8                | RX                                                                                 | 97       | DV | 160M4 | 135       | 126                                                                                 |
|                        | 545                       | 193                    | 2.64    | 6280                                 | 3.1                | RXF                                                                                | 97       | DV | 160M4 | 145       | 127                                                                                 |
|                        | 643                       | 163                    | 2.24*   | 6000                                 | 3.6                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 736                       | 143                    | 1.96    | 5790                                 | 4.0                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 880                       | 119                    | 1.64    | 5500                                 | 4.2                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 1015                      | 103                    | 1.42    | 5280                                 | 4.4                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 414                       | 255                    | 3.48    | 5030                                 | 1.60               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 466                       | 225                    | 3.09    | 4910                                 | 1.80               | RX                                                                                 | 87       | DV | 160M4 | 110       | 124                                                                                 |
|                        | 522                       | 200                    | 2.76*   | 4790                                 | 2.0                | RXF                                                                                | 87       | DV | 160M4 | 115       | 125                                                                                 |
|                        | 580                       | 181                    | 2.48    | 4680                                 | 2.2                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 669                       | 157                    | 2.15    | 4530                                 | 2.5                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 747                       | 141                    | 1.93    | 4400                                 | 2.5                | RX                                                                                 | 87       | DV | 160M4 | 110       | 124                                                                                 |
|                        | 900                       | 117                    | 1.60*   | 4200                                 | 2.7                | RXF                                                                                | 87       | DV | 160M4 | 115       | 125                                                                                 |
|                        | 1035                      | 102                    | 1.39    | 4050                                 | 2.9                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 593                       | 177                    | 2.43    | 1890                                 | 1.20               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 676                       | 155                    | 2.13    | 2140                                 | 1.30               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 766                       | 137                    | 1.88*   | 2330                                 | 1.35               | RX                                                                                 | 77       | DV | 160M4 | 96        | 122                                                                                 |
|                        | 864                       | 122                    | 1.67    | 2460                                 | 1.40               | RXF                                                                                | 77       | DV | 160M4 | 99        | 123                                                                                 |
|                        | 1010                      | 104                    | 1.42    | 2580                                 | 1.50               |                                                                                    |          |    |       |           |                                                                                     |
| 15.0                   | 6.4                       | 20800                  | 229     | 120000                               | 0.85               | R                                                                                  | 167 R107 | DV | 160L4 | 900       | 167                                                                                 |
|                        | 7.3                       | 18200                  | 200     | 120000                               | 1.00               | RF                                                                                 | 167 R107 | DV | 160L4 | 910       | 167                                                                                 |
|                        | 8.6                       | 15300                  | 169     | 120000                               | 1.20               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 6.4                       | 20900                  | 227     | 120000                               | 0.85               | R                                                                                  | 167 R107 | DV | 160L4 | 900       | 167                                                                                 |
|                        | 7.4                       | 18200                  | 198     | 120000                               | 1.00               | RF                                                                                 | 167 R107 | DV | 160L4 | 900       | 167                                                                                 |
|                        | 6.3                       | 22600                  | 153.07  | 120000                               | 0.80               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 6.9                       | 20700                  | 139.98  | 120000                               | 0.85               | R                                                                                  | 167      | DV | 180L6 | 770       | 165                                                                                 |
|                        | 8.0                       | 18000                  | 121.81* | 120000                               | 1.00               | RF                                                                                 | 167      | DV | 180L6 | 770       | 166                                                                                 |
|                        | 9.0                       | 15900                  | 107.49  | 120000                               | 1.15               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 6.4                       | 22500                  | 229.71  | 120000                               | 0.80               | R                                                                                  | 167      | DV | 160L4 | 730       | 165                                                                                 |
|                        | 7.8                       | 18300                  | 186.93* | 120000                               | 1.00               | RF                                                                                 | 167      | DV | 160L4 | 740       | 166                                                                                 |
|                        | 9.5                       | 15000                  | 153.07  | 120000                               | 1.20               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 10                        | 13700                  | 139.98  | 120000                               | 1.30               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 12                        | 12000                  | 121.81* | 120000                               | 1.50               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 14                        | 10500                  | 107.49  | 120000                               | 1.70               | R                                                                                  | 167      | DV | 160L4 | 730       | 165                                                                                 |
|                        | 16                        | 9140                   | 93.19   | 120000                               | 1.95               | RF                                                                                 | 167      | DV | 160L4 | 740       | 166                                                                                 |
|                        | 18                        | 8130                   | 82.91*  | 120000                               | 2.2                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 20                        | 7230                   | 73.70*  | 120000                               | 2.5                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 22                        | 6610                   | 67.40   | 120000                               | 2.7                |                                                                                    |          |    |       |           |                                                                                     |
|                        | 8.9                       | 16100                  | 109.31  | 34400                                | 0.80               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 10                        | 14000                  | 94.60*  | 60600                                | 0.95               |                                                                                    |          |    |       |           |                                                                                     |
|                        | 12                        | 12300                  | 83.47   | 64000                                | 1.05               | R                                                                                  | 147      | DV | 180L6 | 520       | 163                                                                                 |
|                        | 13                        | 10600                  | 72.09   | 66800                                | 1.20               | RF                                                                                 | 147      | DV | 180L6 | 530       | 164                                                                                 |
|                        | 14                        | 9890                   | 66.99   | 67900                                | 1.30               |                                                                                    |          |    |       |           |                                                                                     |

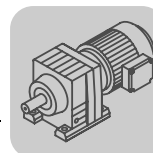


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |                       |                          |                        |                              | $m$<br>[kg] |     |
|---------------|------------------|---------------|---------|----------------------|-----------|-----------------------|--------------------------|------------------------|------------------------------|-------------|-----|
| <b>15.0</b>   | <b>8.9</b>       | 16000         | 163.31  | 36200                | 0.80      | <b>R</b><br><b>RF</b> | <b>147</b><br><b>147</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 480         | 163 |
|               | <b>9.9</b>       | 14400         | 146.91  | 57400                | 0.90      |                       |                          |                        |                              | 490         | 164 |
|               | <b>12</b>        | 11800         | 119.86  | 65000                | 1.10      |                       |                          |                        |                              |             |     |
|               | <b>13</b>        | 10700         | 109.31  | 66700                | 1.20      |                       |                          |                        |                              |             |     |
|               | <b>15</b>        | 9280          | 94.60*  | 68800                | 1.40      | <b>R</b><br><b>RF</b> | <b>147</b><br><b>147</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 480         | 163 |
|               | <b>17</b>        | 8190          | 83.47   | 70100                | 1.60      |                       |                          |                        |                              | 490         | 164 |
|               | <b>20</b>        | 7070          | 72.09   | 71300                | 1.85      |                       |                          |                        |                              |             |     |
|               | <b>22</b>        | 6570          | 66.99   | 71700                | 2.0       |                       |                          |                        |                              |             |     |
|               | <b>24</b>        | 5990          | 61.09   | 72200                | 2.2       | <b>R</b><br><b>RF</b> | <b>137</b><br><b>137</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 355         | 161 |
|               | <b>28</b>        | 5190          | 52.87   | 72800                | 2.5       |                       |                          |                        |                              | 380         | 162 |
|               | <b>31</b>        | 4580          | 46.65   | 73200                | 2.8       |                       |                          |                        |                              |             |     |
|               | <b>14</b>        | 10100         | 103.20* | 30700                | 0.80      |                       |                          |                        |                              |             |     |
|               | <b>16</b>        | 8700          | 88.70*  | 51000                | 0.90      | <b>R</b><br><b>RF</b> | <b>137</b><br><b>137</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 355         | 161 |
|               | <b>18</b>        | 7940          | 80.91*  | 53500                | 1.00      |                       |                          |                        |                              | 380         | 162 |
|               | <b>20</b>        | 7210          | 73.49   | 55000                | 1.10      |                       |                          |                        |                              |             |     |
|               | <b>22</b>        | 6400          | 65.20   | 56400                | 1.25      |                       |                          |                        |                              |             |     |
|               | <b>25</b>        | 5800          | 59.17*  | 57300                | 1.40      | <b>R</b><br><b>RF</b> | <b>137</b><br><b>137</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 355         | 161 |
|               | <b>29</b>        | 4990          | 50.86*  | 58400                | 1.60      |                       |                          |                        |                              | 380         | 162 |
|               | <b>33</b>        | 4360          | 44.39   | 59100                | 1.85      |                       |                          |                        |                              |             |     |
|               | <b>39</b>        | 3690          | 37.65   | 59800                | 2.2       |                       |                          |                        |                              |             |     |
|               | <b>44</b>        | 3230          | 32.91   | 60200                | 2.5       | <b>R</b><br><b>RF</b> | <b>107</b><br><b>107</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 270         | 159 |
|               | <b>52</b>        | 2730          | 27.83   | 60500                | 2.8       |                       |                          |                        |                              | 275         | 160 |
|               | <b>31</b>        | 4670          | 47.63   | 24500                | 0.90      |                       |                          |                        |                              |             |     |
|               | <b>36</b>        | 3960          | 40.37*  | 23900                | 1.10      |                       |                          |                        |                              |             |     |
|               | <b>41</b>        | 3460          | 35.26   | 23400                | 1.25      | <b>R</b><br><b>RF</b> | <b>107</b><br><b>107</b> | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 215         | 157 |
|               | <b>50</b>        | 2890          | 29.49   | 22600                | 1.50      |                       |                          |                        |                              | 230         | 158 |
|               | <b>47</b>        | 3020          | 30.77   | 22800                | 1.40      |                       |                          |                        |                              |             |     |
|               | <b>53</b>        | 2710          | 27.58   | 22400                | 1.60      |                       |                          |                        |                              |             |     |
|               | <b>59</b>        | 2440          | 24.90*  | 21900                | 1.75      | <b>R</b><br><b>RF</b> | <b>97</b><br><b>97</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 265         | 159 |
|               | <b>65</b>        | 2220          | 22.62   | 21400                | 1.95      |                       |                          |                        |                              | 270         | 160 |
|               | <b>73</b>        | 1970          | 20.07   | 20900                | 2.2       |                       |                          |                        |                              |             |     |
|               | <b>80</b>        | 1790          | 18.21   | 20400                | 2.4       |                       |                          |                        |                              |             |     |
|               | <b>93</b>        | 1540          | 15.65   | 19700                | 2.8       | <b>R</b><br><b>RF</b> | <b>97</b><br><b>97</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 210         | 157 |
|               | <b>107</b>       | 1340          | 13.66   | 19000                | 3.2       |                       |                          |                        |                              | 230         | 158 |
|               | <b>53</b>        | 2710          | 27.58   | 16500                | 1.00      |                       |                          |                        |                              |             |     |
|               | <b>58</b>        | 2460          | 25.03   | 16300                | 1.15      |                       |                          |                        |                              |             |     |
|               | <b>65</b>        | 2200          | 22.37   | 16100                | 1.25      | <b>R</b><br><b>RF</b> | <b>97</b><br><b>97</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 170         | 154 |
|               | <b>72</b>        | 1980          | 20.14   | 15800                | 1.30      |                       |                          |                        |                              | 175         | 155 |
|               | <b>80</b>        | 1790          | 18.24   | 15600                | 1.40      |                       |                          |                        |                              |             |     |
|               | <b>90</b>        | 1590          | 16.17   | 15200                | 1.50      |                       |                          |                        |                              |             |     |
|               | <b>100</b>       | 1430          | 14.62   | 14900                | 1.60      | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 170         | 154 |
|               | <b>118</b>       | 1220          | 12.39   | 14400                | 1.80      |                       |                          |                        |                              | 175         | 155 |
|               | <b>135</b>       | 1060          | 10.83   | 14000                | 1.95      |                       |                          |                        |                              |             |     |
|               | <b>157</b>       | 910           | 9.29    | 13800                | 2.2       |                       |                          |                        |                              |             |     |
|               | <b>174</b>       | 820           | 8.39    | 13400                | 2.5       | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 170         | 154 |
|               | <b>205</b>       | 700           | 7.12    | 12800                | 2.9       |                       |                          |                        |                              | 175         | 155 |
|               | <b>235</b>       | 610           | 6.21    | 12400                | 3.1       |                       |                          |                        |                              |             |     |
|               | <b>85</b>        | 1680          | 17.08*  | 11600                | 0.85      |                       |                          |                        |                              |             |     |
|               | <b>95</b>        | 1510          | 15.35   | 11500                | 0.90      | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 170         | 154 |
|               | <b>110</b>       | 1310          | 13.33   | 11300                | 1.00      |                       |                          |                        |                              | 175         | 155 |
|               | <b>122</b>       | 1170          | 11.93   | 11100                | 1.05      |                       |                          |                        |                              |             |     |
|               | <b>147</b>       | 970           | 9.90*   | 10700                | 1.20      |                       |                          |                        |                              |             |     |
|               | <b>160</b>       | 900           | 9.14*   | 11000                | 1.35      | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 170         | 154 |
|               | <b>178</b>       | 810           | 8.22    | 10700                | 1.45      |                       |                          |                        |                              | 175         | 155 |
|               | <b>205</b>       | 700           | 7.13    | 10300                | 1.55      |                       |                          |                        |                              |             |     |
|               | <b>229</b>       | 625           | 6.39    | 10100                | 1.65      |                       |                          |                        |                              |             |     |
|               | <b>275</b>       | 520           | 5.30*   | 9600                 | 1.75      | <b>R</b><br><b>RF</b> | <b>87</b><br><b>87</b>   | <b>DV</b><br><b>DV</b> | <b>160L4</b><br><b>160L4</b> | 170         | 154 |
|               |                  |               |         |                      |           |                       |                          |                        |                              | 175         | 155 |

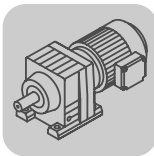


# R..DR/DT/DV R..D.. [kW]

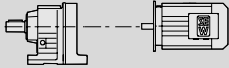
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i       | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |  |            |          |                | m<br>[kg] |  |
|------------------------|---------------------------|------------------------|---------|--------------------------------------|--------------------|------------------------------------------------------------------------------------|------------|----------|----------------|-----------|-------------------------------------------------------------------------------------|
| 15.0                   | 281                       | 510                    | 5.19    | 8440                                 | 1.35               | RX<br>RXF                                                                          | 107<br>107 | DV<br>DV | 160L4<br>160L4 | 210       | 128                                                                                 |
|                        | 314                       | 455                    | 4.65    | 8260                                 | 1.50               |                                                                                    |            |          |                | 225       | 129                                                                                 |
|                        | 348                       | 410                    | 4.20*   | 8100                                 | 2.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 383                       | 375                    | 3.81    | 7930                                 | 2.2                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 431                       | 330                    | 3.38    | 7720                                 | 2.5                | RX<br>RXF                                                                          | 107<br>107 | DV<br>DV | 160L4<br>160L4 | 210       | 128                                                                                 |
|                        | 475                       | 300                    | 3.07    | 7540                                 | 2.8                |                                                                                    |            |          |                | 225       | 129                                                                                 |
|                        | 553                       | 260                    | 2.64*   | 7260                                 | 3.2                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 634                       | 225                    | 2.30    | 7010                                 | 3.7                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 747                       | 192                    | 1.95    | 6710                                 | 4.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 855                       | 168                    | 1.71    | 6470                                 | 4.2                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 1010                      | 142                    | 1.44    | 6170                                 | 4.6                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 323                       | 445                    | 4.52    | 6660                                 | 1.35               | RX<br>RXF                                                                          | 97<br>97   | DV<br>DV | 160L4<br>160L4 | 180       | 126                                                                                 |
|                        | 361                       | 395                    | 4.04    | 6530                                 | 1.50               |                                                                                    |            |          |                | 185       | 127                                                                                 |
|                        | 401                       | 355                    | 3.64*   | 6400                                 | 1.65               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 443                       | 325                    | 3.30    | 6270                                 | 1.85               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 499                       | 285                    | 2.92    | 6110                                 | 2.1                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 552                       | 260                    | 2.64    | 5970                                 | 2.3                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 652                       | 220                    | 2.24*   | 5730                                 | 2.7                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 746                       | 192                    | 1.96    | 5550                                 | 3.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 892                       | 161                    | 1.64    | 5290                                 | 3.2                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 1030                      | 139                    | 1.42    | 5090                                 | 3.3                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 420                       | 340                    | 3.48    | 4260                                 | 1.20               | RX<br>RXF                                                                          | 87<br>87   | DV<br>DV | 160L4<br>160L4 | 150       | 124                                                                                 |
|                        | 473                       | 305                    | 3.09    | 4510                                 | 1.35               |                                                                                    |            |          |                | 155       | 125                                                                                 |
|                        | 529                       | 270                    | 2.76*   | 4430                                 | 1.50               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 588                       | 245                    | 2.48    | 4350                                 | 1.65               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 678                       | 210                    | 2.15    | 4230                                 | 1.80               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 757                       | 189                    | 1.93    | 4130                                 | 1.90               | RX<br>RXF                                                                          | 87<br>87   | DV<br>DV | 160L4<br>160L4 | 150       | 124                                                                                 |
|                        | 913                       | 157                    | 1.60*   | 3960                                 | 2.0                |                                                                                    |            |          |                | 155       | 125                                                                                 |
|                        | 1050                      | 137                    | 1.39    | 3840                                 | 2.1                |                                                                                    |            |          |                |           |                                                                                     |
| 18.5                   | 7.8                       | 22500                  | 186.93* | 120000                               | 0.80               | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 180M4<br>180M4 | 750       | 165                                                                                 |
|                        | 9.6                       | 18500                  | 153.07  | 120000                               | 1.00               |                                                                                    |            |          |                | 760       | 166                                                                                 |
|                        | 10                        | 16900                  | 139.98  | 120000                               | 1.05               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 12                        | 14700                  | 121.81* | 120000                               | 1.25               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 14                        | 13000                  | 107.49  | 120000                               | 1.40               | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 180M4<br>180M4 | 750       | 165                                                                                 |
|                        | 16                        | 11200                  | 93.19   | 120000                               | 1.60               |                                                                                    |            |          |                | 760       | 166                                                                                 |
|                        | 18                        | 10000                  | 82.91*  | 120000                               | 1.80               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 20                        | 8890                   | 73.70*  | 120000                               | 2.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 22                        | 8130                   | 67.40   | 120000                               | 2.2                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 25                        | 7070                   | 58.65   | 120000                               | 2.6                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 12                        | 14500                  | 119.86  | 56900                                | 0.90               | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 180M4<br>180M4 | 500       | 163                                                                                 |
|                        | 13                        | 13200                  | 109.31  | 62300                                | 1.00               |                                                                                    |            |          |                | 510       | 164                                                                                 |
|                        | 15                        | 11400                  | 94.60*  | 65600                                | 1.15               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 18                        | 10100                  | 83.47   | 67700                                | 1.30               | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 180M4<br>180M4 | 500       | 163                                                                                 |
|                        | 20                        | 8690                   | 72.09   | 69500                                | 1.50               |                                                                                    |            |          |                | 510       | 164                                                                                 |
|                        | 22                        | 8080                   | 66.99   | 70200                                | 1.60               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 24                        | 7370                   | 61.09   | 71000                                | 1.75               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 28                        | 6380                   | 52.87   | 71900                                | 2.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 31                        | 5630                   | 46.65   | 72500                                | 2.3                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 36                        | 4860                   | 40.29   | 73000                                | 2.7                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 18                        | 9760                   | 80.91*  | 39000                                | 0.80               | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 180M4<br>180M4 | 375       | 161                                                                                 |
|                        | 20                        | 8860                   | 73.49   | 50200                                | 0.90               |                                                                                    |            |          |                | 400       | 162                                                                                 |
|                        | 22                        | 7860                   | 65.20   | 53700                                | 1.00               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 25                        | 7140                   | 59.17*  | 55100                                | 1.10               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 29                        | 6130                   | 50.86*  | 56800                                | 1.30               | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 180M4<br>180M4 | 375       | 161                                                                                 |
|                        | 33                        | 5350                   | 44.39   | 58000                                | 1.50               |                                                                                    |            |          |                | 400       | 162                                                                                 |
|                        | 39                        | 4540                   | 37.65   | 58900                                | 1.75               |                                                                                    |            |          |                |           |                                                                                     |
|                        | 45                        | 3970                   | 32.91   | 59500                                | 2.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 53                        | 3360                   | 27.83   | 60100                                | 2.3                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 50                        | 3570                   | 29.57*  | 59900                                | 2.2                | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 180M4<br>180M4 | 365       | 161                                                                                 |
|                        | 61                        | 2910                   | 24.12   | 60400                                | 2.8                |                                                                                    |            |          |                | 390       | 162                                                                                 |
|                        | 67                        | 2650                   | 22.00*  | 60600                                | 3.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 77                        | 2300                   | 19.04*  | 60800                                | 3.5                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 87                        | 2030                   | 16.80*  | 60900                                | 4.0                |                                                                                    |            |          |                |           |                                                                                     |
|                        | 36                        | 4870                   | 40.37*  | 20200                                | 0.90               | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 180M4<br>180M4 | 295       | 159                                                                                 |
|                        | 42                        | 4250                   | 35.26   | 22000                                | 1.00               |                                                                                    |            |          |                | 300       | 160                                                                                 |
|                        | 50                        | 3560                   | 29.49   | 21500                                | 1.20               |                                                                                    |            |          |                |           |                                                                                     |

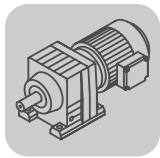


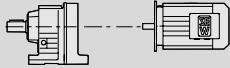
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |           |            |          |                | $m$<br>[kg] |            |
|---------------|------------------|---------------|---------|----------------------|-----------|-----------|------------|----------|----------------|-------------|------------|
| 18.5          | 59               | 3000          | 24.90*  | 20900                | 1.45      | R<br>RF   | 107<br>107 | DV<br>DV | 180M4<br>180M4 | 285<br>290  | 159<br>160 |
|               | 65               | 2730          | 22.62   | 20600                | 1.60      |           |            |          |                |             |            |
|               | 73               | 2420          | 20.07   | 20100                | 1.80      |           |            |          |                |             |            |
|               | 80               | 2200          | 18.21   | 19700                | 1.95      |           |            |          |                |             |            |
|               | 94               | 1890          | 15.65   | 19100                | 2.3       |           |            |          |                |             |            |
|               | 107              | 1650          | 13.66   | 18500                | 2.6       |           |            |          |                |             |            |
|               | 126              | 1400          | 11.59   | 17800                | 3.1       |           |            |          |                |             |            |
|               | 145              | 1220          | 10.13   | 17200                | 3.5       |           |            |          |                |             |            |
|               | 186              | 950           | 7.86    | 16300                | 3.1       |           |            |          |                |             |            |
|               | 220              | 800           | 6.66    | 15600                | 3.7       |           |            |          |                |             |            |
|               | 73               | 2430          | 20.14   | 14900                | 1.05      | R<br>RF   | 97<br>97   | DV<br>DV | 180M4<br>180M4 | 235<br>250  | 157<br>158 |
|               | 80               | 2200          | 18.24   | 14700                | 1.15      |           |            |          |                |             |            |
|               | 91               | 1950          | 16.17   | 14500                | 1.25      |           |            |          |                |             |            |
|               | 100              | 1760          | 14.62   | 14200                | 1.30      |           |            |          |                |             |            |
|               | 118              | 1490          | 12.39   | 13800                | 1.45      |           |            |          |                |             |            |
|               | 135              | 1310          | 10.83   | 13500                | 1.60      |           |            |          |                |             |            |
|               | 158              | 1120          | 9.29    | 13400                | 1.80      |           |            |          |                |             |            |
|               | 175              | 1010          | 8.39    | 13100                | 2.0       |           |            |          |                |             |            |
|               | 206              | 860           | 7.12    | 12600                | 2.3       |           |            |          |                |             |            |
|               | 236              | 750           | 6.21    | 12100                | 2.5       |           |            |          |                |             |            |
|               | 282              | 625           | 5.20    | 11600                | 2.8       |           |            |          |                |             |            |
|               | 326              | 545           | 4.50*   | 11100                | 3.0       |           |            |          |                |             |            |
|               | 110              | 1610          | 13.33   | 10600                | 0.80      | R<br>RF   | 87<br>87   | DV<br>DV | 180M4<br>180M4 | 190<br>200  | 154<br>155 |
|               | 123              | 1440          | 11.93   | 10400                | 0.85      |           |            |          |                |             |            |
|               | 148              | 1190          | 9.90*   | 10200                | 1.00      |           |            |          |                |             |            |
|               | 160              | 1100          | 9.14*   | 10600                | 1.10      |           |            |          |                |             |            |
|               | 178              | 990           | 8.22    | 10300                | 1.15      |           |            |          |                |             |            |
|               | 205              | 860           | 7.13    | 10000                | 1.25      |           |            |          |                |             |            |
|               | 229              | 770           | 6.39    | 9770                 | 1.30      |           |            |          |                |             |            |
|               | 276              | 640           | 5.30*   | 9350                 | 1.40      | RX<br>RXF | 107<br>107 | DV<br>DV | 180M4<br>180M4 | 230<br>250  | 128<br>129 |
|               | 349              | 505           | 4.20*   | 7710                 | 1.65      |           |            |          |                |             |            |
|               | 384              | 460           | 3.81    | 7580                 | 1.80      |           |            |          |                |             |            |
|               | 433              | 410           | 3.38    | 7400                 | 2.0       |           |            |          |                |             |            |
|               | 477              | 370           | 3.07    | 7250                 | 2.2       | RX<br>RXF | 107<br>107 | DV<br>DV | 180M4<br>180M4 | 230<br>250  | 128<br>129 |
|               | 555              | 320           | 2.64*   | 7010                 | 2.6       |           |            |          |                |             |            |
|               | 636              | 280           | 2.30    | 6780                 | 3.0       |           |            |          |                |             |            |
|               | 750              | 235           | 1.95    | 6510                 | 3.3       |           |            |          |                |             |            |
|               | 858              | 205           | 1.71    | 6290                 | 3.4       |           |            |          |                |             |            |
|               | 1015             | 174           | 1.44    | 6020                 | 3.7       | RX<br>RXF | 97<br>97   | DV<br>DV | 180M4<br>180M4 | 200<br>210  | 126<br>127 |
|               | 402              | 440           | 3.64*   | 6060                 | 1.35      |           |            |          |                |             |            |
|               | 444              | 400           | 3.30    | 5960                 | 1.50      |           |            |          |                |             |            |
|               | 501              | 355           | 2.92    | 5830                 | 1.70      |           |            |          |                |             |            |
|               | 554              | 320           | 2.64    | 5710                 | 1.85      |           |            |          |                |             |            |
|               | 654              | 270           | 2.24*   | 5510                 | 2.2       |           |            |          |                |             |            |
|               | 749              | 235           | 1.96    | 5350                 | 2.4       |           |            |          |                |             |            |
|               | 895              | 197           | 1.64    | 5120                 | 2.6       |           |            |          |                |             |            |
|               | 1035             | 171           | 1.42    | 4940                 | 2.7       | RX<br>RXF | 87<br>87   | DV<br>DV | 180M4<br>180M4 | 175<br>180  | 124<br>125 |
|               | 531              | 335           | 2.76*   | 3040                 | 1.20      |           |            |          |                |             |            |
|               | 590              | 300           | 2.48    | 3340                 | 1.35      |           |            |          |                |             |            |
|               | 680              | 260           | 2.15    | 3630                 | 1.50      |           |            |          |                |             |            |
|               | 760              | 235           | 1.93    | 3820                 | 1.55      |           |            |          |                |             |            |
|               | 916              | 193           | 1.60*   | 3770                 | 1.65      |           |            |          |                |             |            |
|               | 1055             | 168           | 1.39    | 3670                 | 1.75      |           |            |          |                |             |            |
| 22            | 9.6              | 22000         | 153.07  | 120000               | 0.80      | R<br>RF   | 167<br>167 | DV<br>DV | 180L4<br>180L4 | 770<br>770  | 165<br>166 |
|               | 10               | 20100         | 139.98  | 120000               | 0.90      |           |            |          |                |             |            |
|               | 12               | 17500         | 121.81* | 120000               | 1.05      |           |            |          |                |             |            |
|               | 14               | 15400         | 107.49  | 120000               | 1.15      | R<br>RF   | 167<br>167 | DV<br>DV | 180L4<br>180L4 | 770<br>770  | 165<br>166 |
|               | 16               | 13400         | 93.19   | 120000               | 1.35      |           |            |          |                |             |            |
|               | 18               | 11900         | 82.91*  | 120000               | 1.50      |           |            |          |                |             |            |
|               | 20               | 10600         | 73.70*  | 120000               | 1.70      |           |            |          |                |             |            |
|               | 22               | 9670          | 67.40   | 120000               | 1.85      |           |            |          |                |             |            |
|               | 25               | 8410          | 58.65   | 120000               | 2.1       |           |            |          |                |             |            |
|               | 28               | 7420          | 51.76   | 120000               | 2.4       |           |            |          |                |             |            |
|               | 33               | 6430          | 44.87   | 120000               | 2.8       |           |            |          |                |             |            |

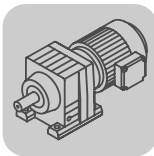


# R..DR/DT/DV R..D.. [kW]

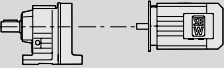
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |     |    |       | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|-----|----|-------|-------------|-------------------------------------------------------------------------------------|
| 22            | 13               | 15700         | 109.31 | 41300                | 0.85      |                                                                                    |     |    |       |             |                                                                                     |
|               | 15               | 13600         | 94.60* | 61500                | 0.95      | R                                                                                  | 147 | DV | 180L4 | 520         | 163                                                                                 |
|               | 18               | 12000         | 83.47  | 64600                | 1.10      | RF                                                                                 | 147 | DV | 180L4 | 530         | 164                                                                                 |
|               | 20               | 10300         | 72.09  | 67300                | 1.25      |                                                                                    |     |    |       |             |                                                                                     |
|               | 22               | 9610          | 66.99  | 68300                | 1.35      |                                                                                    |     |    |       |             |                                                                                     |
|               | 24               | 8760          | 61.09  | 69400                | 1.50      |                                                                                    |     |    |       |             |                                                                                     |
|               | 28               | 7580          | 52.87  | 70800                | 1.70      | R                                                                                  | 147 | DV | 180L4 | 520         | 163                                                                                 |
|               | 31               | 6690          | 46.65  | 71600                | 1.95      | RF                                                                                 | 147 | DV | 180L4 | 530         | 164                                                                                 |
|               | 36               | 5780          | 40.29  | 72400                | 2.3       |                                                                                    |     |    |       |             |                                                                                     |
|               | 41               | 5110          | 35.64  | 72900                | 2.5       |                                                                                    |     |    |       |             |                                                                                     |
|               | 49               | 4300          | 29.95  | 73400                | 3.0       |                                                                                    |     |    |       |             |                                                                                     |
|               | 22               | 9350          | 65.20  | 46900                | 0.85      | R                                                                                  | 137 | DV | 180L4 | 390         | 161                                                                                 |
|               | 25               | 8480          | 59.17* | 51900                | 0.95      | RF                                                                                 | 137 | DV | 180L4 | 415         | 162                                                                                 |
|               | 29               | 7290          | 50.86* | 54800                | 1.10      |                                                                                    |     |    |       |             |                                                                                     |
|               | 33               | 6370          | 44.39  | 56500                | 1.25      |                                                                                    |     |    |       |             |                                                                                     |
|               | 39               | 5400          | 37.65  | 57900                | 1.50      | R                                                                                  | 137 | DV | 180L4 | 390         | 161                                                                                 |
|               | 45               | 4720          | 32.91  | 58700                | 1.70      | RF                                                                                 | 137 | DV | 180L4 | 415         | 162                                                                                 |
|               | 53               | 3990          | 27.83  | 59500                | 1.90      |                                                                                    |     |    |       |             |                                                                                     |
|               | 50               | 4240          | 29.57* | 59300                | 1.85      |                                                                                    |     |    |       |             |                                                                                     |
|               | 61               | 3460          | 24.12  | 60000                | 2.3       | R                                                                                  | 137 | DV | 180L4 | 380         | 161                                                                                 |
|               | 67               | 3150          | 22.00* | 60200                | 2.5       | RF                                                                                 | 137 | DV | 180L4 | 405         | 162                                                                                 |
|               | 77               | 2730          | 19.04* | 60500                | 2.9       |                                                                                    |     |    |       |             |                                                                                     |
|               | 87               | 2410          | 16.80* | 60700                | 3.3       | R                                                                                  | 137 | DV | 180L4 | 380         | 161                                                                                 |
|               | 101              | 2080          | 14.51  | 60900                | 3.9       | RF                                                                                 | 137 | DV | 180L4 | 405         | 162                                                                                 |
|               | 114              | 1840          | 12.83  | 61000                | 4.4       |                                                                                    |     |    |       |             |                                                                                     |
|               | 42               | 5060          | 35.26  | 7280                 | 0.85      | R                                                                                  | 107 | DV | 180L4 | 305         | 159                                                                                 |
|               | 50               | 4230          | 29.49  | 20400                | 1.00      | RF                                                                                 | 107 | DV | 180L4 | 315         | 160                                                                                 |
|               | 59               | 3570          | 24.90* | 20000                | 1.20      | R                                                                                  | 107 | DV | 180L4 | 300         | 159                                                                                 |
|               | 65               | 3240          | 22.62  | 19700                | 1.35      | RF                                                                                 | 107 | DV | 180L4 | 305         | 160                                                                                 |
|               | 73               | 2880          | 20.07  | 19300                | 1.50      |                                                                                    |     |    |       |             |                                                                                     |
|               | 80               | 2610          | 18.21  | 19000                | 1.65      |                                                                                    |     |    |       |             |                                                                                     |
|               | 94               | 2240          | 15.65  | 18500                | 1.90      |                                                                                    |     |    |       |             |                                                                                     |
|               | 107              | 1960          | 13.66  | 18000                | 2.2       | R                                                                                  | 107 | DV | 180L4 | 300         | 159                                                                                 |
|               | 126              | 1660          | 11.59  | 17300                | 2.6       | RF                                                                                 | 107 | DV | 180L4 | 305         | 160                                                                                 |
|               | 145              | 1450          | 10.13  | 16800                | 3.0       |                                                                                    |     |    |       |             |                                                                                     |
|               | 171              | 1230          | 8.56   | 16100                | 3.5       |                                                                                    |     |    |       |             |                                                                                     |
|               | 186              | 1130          | 7.86   | 16100                | 2.6       |                                                                                    |     |    |       |             |                                                                                     |
|               | 220              | 960           | 6.66   | 15400                | 3.1       |                                                                                    |     |    |       |             |                                                                                     |
|               | 252              | 840           | 5.82   | 14800                | 3.6       |                                                                                    |     |    |       |             |                                                                                     |
|               | 73               | 2890          | 20.14  | 14000                | 0.90      | R                                                                                  | 97  | DV | 180L4 | 245         | 157                                                                                 |
|               | 80               | 2620          | 18.24  | 13900                | 0.95      | RF                                                                                 | 97  | DV | 180L4 | 265         | 158                                                                                 |
|               | 91               | 2320          | 16.17  | 13700                | 1.05      |                                                                                    |     |    |       |             |                                                                                     |
|               | 100              | 2100          | 14.62  | 13600                | 1.10      |                                                                                    |     |    |       |             |                                                                                     |
|               | 118              | 1780          | 12.39  | 13200                | 1.25      |                                                                                    |     |    |       |             |                                                                                     |
|               | 135              | 1550          | 10.83  | 13000                | 1.35      |                                                                                    |     |    |       |             |                                                                                     |
|               | 158              | 1330          | 9.29   | 13100                | 1.50      | R                                                                                  | 97  | DV | 180L4 | 245         | 157                                                                                 |
|               | 175              | 1200          | 8.39   | 12800                | 1.70      | RF                                                                                 | 97  | DV | 180L4 | 265         | 158                                                                                 |
|               | 206              | 1020          | 7.12   | 12300                | 1.95      |                                                                                    |     |    |       |             |                                                                                     |
|               | 236              | 890           | 6.21   | 11900                | 2.1       |                                                                                    |     |    |       |             |                                                                                     |
|               | 282              | 745           | 5.20   | 11400                | 2.4       |                                                                                    |     |    |       |             |                                                                                     |
|               | 326              | 645           | 4.50*  | 10900                | 2.5       |                                                                                    |     |    |       |             |                                                                                     |
|               | 148              | 1420          | 9.90*  | 9640                 | 0.85      | R                                                                                  | 87  | DV | 180L4 | 205         | 154                                                                                 |
|               | 160              | 1310          | 9.14*  | 10100                | 0.90      | RF                                                                                 | 87  | DV | 180L4 | 215         | 155                                                                                 |
|               | 178              | 1180          | 8.22   | 9960                 | 1.00      |                                                                                    |     |    |       |             |                                                                                     |
|               | 205              | 1020          | 7.13   | 9700                 | 1.05      |                                                                                    |     |    |       |             |                                                                                     |
|               | 229              | 920           | 6.39   | 9490                 | 1.10      |                                                                                    |     |    |       |             |                                                                                     |
|               | 276              | 760           | 5.30*  | 9110                 | 1.20      |                                                                                    |     |    |       |             |                                                                                     |
|               | 349              | 600           | 4.20*  | 7330                 | 1.40      |                                                                                    |     |    |       |             |                                                                                     |
|               | 384              | 545           | 3.81   | 7230                 | 1.50      | RX                                                                                 | 107 | DV | 180L4 | 245         | 128                                                                                 |
|               | 433              | 485           | 3.38   | 7090                 | 1.70      | RXF                                                                                | 107 | DV | 180L4 | 260         | 129                                                                                 |
|               | 477              | 440           | 3.07   | 6960                 | 1.90      |                                                                                    |     |    |       |             |                                                                                     |
|               | 555              | 380           | 2.64*  | 6760                 | 2.2       |                                                                                    |     |    |       |             |                                                                                     |
|               | 636              | 330           | 2.30   | 6560                 | 2.5       |                                                                                    |     |    |       |             |                                                                                     |
|               | 750              | 280           | 1.95   | 6320                 | 2.7       | RX                                                                                 | 107 | DV | 180L4 | 245         | 128                                                                                 |
|               | 858              | 245           | 1.71   | 6120                 | 2.9       | RXF                                                                                | 107 | DV | 180L4 | 260         | 129                                                                                 |
|               | 1015             | 205           | 1.44   | 5870                 | 3.1       |                                                                                    |     |    |       |             |                                                                                     |

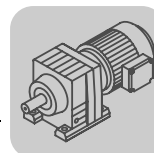


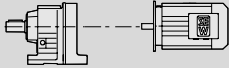
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |            |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|------------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 22            | 402              | 520           | 3.64*  | 5720                 | 1.15      | RX<br>RXF                                                                          | 97<br>97   | DV<br>DV | 180L4<br>180L4 | 215<br>220  | 126<br>127                                                                          |
|               | 444              | 475           | 3.30   | 5650                 | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 501              | 420           | 2.92   | 5560                 | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 554              | 380           | 2.64   | 5460                 | 1.55      |                                                                                    |            |          |                |             |                                                                                     |
|               | 654              | 320           | 2.24*  | 5300                 | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
|               | 749              | 280           | 1.96   | 5160                 | 2.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 895              | 235           | 1.64   | 4960                 | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 1035             | 205           | 1.42   | 4790                 | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 531              | 395           | 2.76*  | 1270                 | 1.00      | RX<br>RXF                                                                          | 87<br>87   | DV<br>DV | 180L4<br>180L4 | 190<br>195  | 124<br>125                                                                          |
|               | 590              | 355           | 2.48   | 1710                 | 1.15      |                                                                                    |            |          |                |             |                                                                                     |
|               | 680              | 310           | 2.15   | 2160                 | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 760              | 275           | 1.93   | 2450                 | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 916              | 230           | 1.60*  | 2750                 | 1.35      |                                                                                    |            |          |                |             |                                                                                     |
|               | 1055             | 200           | 1.39   | 3030                 | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 14               | 20900         | 107.49 | 120000               | 0.85      | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 200L4<br>200L4 | 850<br>860  | 165<br>166                                                                          |
| 30            | 16               | 18200         | 93.19  | 120000               | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 18               | 16200         | 82.91* | 120000               | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 20               | 14400         | 73.70* | 120000               | 1.25      | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 200L4<br>200L4 | 850<br>860  | 165<br>166                                                                          |
|               | 22               | 13100         | 67.40  | 120000               | 1.35      |                                                                                    |            |          |                |             |                                                                                     |
|               | 25               | 11400         | 58.65  | 120000               | 1.55      |                                                                                    |            |          |                |             |                                                                                     |
|               | 28               | 10100         | 51.76  | 120000               | 1.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 33               | 8740          | 44.87  | 120000               | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 37               | 7780          | 39.92  | 120000               | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 43               | 6710          | 34.41  | 120000               | 2.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 53               | 5450          | 27.96  | 120000               | 3.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 62               | 4620          | 23.71  | 120000               | 3.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 18               | 16300         | 83.47  | 32400                | 0.80      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 200L4<br>200L4 | 600<br>610  | 163<br>164                                                                          |
|               | 20               | 14000         | 72.09  | 60400                | 0.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 22               | 13100         | 66.99  | 62500                | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 24               | 11900         | 61.09  | 64700                | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 28               | 10300         | 52.87  | 67300                | 1.25      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 200L4<br>200L4 | 600<br>610  | 163<br>164                                                                          |
|               | 32               | 9090          | 46.65  | 69000                | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 36               | 7850          | 40.29  | 70500                | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 41               | 6950          | 35.64  | 71400                | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
|               | 49               | 5840          | 29.95  | 72300                | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 61               | 4710          | 24.19  | 73100                | 2.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 72               | 3980          | 20.44  | 73600                | 3.0       | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 200L4<br>200L4 | 590<br>600  | 163<br>164                                                                          |
|               | 82               | 3510          | 18.04  | 73800                | 3.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 94               | 3050          | 15.64  | 74000                | 4.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 29               | 9910          | 50.86* | 35800                | 0.80      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 200L4<br>200L4 | 475<br>500  | 161<br>162                                                                          |
|               | 33               | 8650          | 44.39  | 51200                | 0.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 39               | 7340          | 37.65  | 54700                | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 45               | 6410          | 32.91  | 56400                | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 53               | 5420          | 27.83  | 57900                | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 61               | 4700          | 24.12  | 58800                | 1.70      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 200L4<br>200L4 | 465<br>490  | 161<br>162                                                                          |
|               | 67               | 4290          | 22.00* | 59200                | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
|               | 77               | 3710          | 19.04* | 59800                | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 88               | 3270          | 16.80* | 60100                | 2.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 101              | 2830          | 14.51  | 59500                | 2.8       | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 200L4<br>200L4 | 465<br>490  | 161<br>162                                                                          |
|               | 115              | 2500          | 12.83  | 58400                | 3.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 136              | 2100          | 10.79  | 56600                | 3.8       |                                                                                    |            |          |                |             |                                                                                     |
|               | 194              | 1480          | 7.59   | 53300                | 3.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 230              | 1240          | 6.38   | 51300                | 4.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 73               | 3910          | 20.07  | 17600                | 1.10      | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 200L4<br>200L4 | 385<br>390  | 159<br>160                                                                          |
|               | 81               | 3550          | 18.21  | 17400                | 1.20      |                                                                                    |            |          |                |             |                                                                                     |
|               | 94               | 3050          | 15.65  | 17100                | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 108              | 2660          | 13.66  | 16800                | 1.60      |                                                                                    |            |          |                |             |                                                                                     |
|               | 127              | 2260          | 11.59  | 16300                | 1.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 145              | 1970          | 10.13  | 15900                | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 172              | 1670          | 8.56   | 15400                | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 187              | 1530          | 7.86   | 15500                | 1.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 221              | 1300          | 6.66   | 14900                | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 252              | 1140          | 5.82   | 14400                | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 299              | 960           | 4.92   | 13700                | 3.0       |                                                                                    |            |          |                |             |                                                                                     |

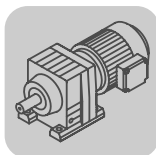


# R..DR/DT/DV R..D.. [kW]

| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |            |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|------------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 30            | 101              | 2850          | 14.62  | 12000                | 0.80      | R<br>RF                                                                            | 97<br>97   | DV<br>DV | 200L4<br>200L4 | 330<br>345  | 157<br>158                                                                          |
|               | 119              | 2420          | 12.39  | 11900                | 0.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 136              | 2110          | 10.83  | 11800                | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 158              | 1810          | 9.29   | 12300                | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 175              | 1640          | 8.39   | 12100                | 1.25      | R<br>RF                                                                            | 97<br>97   | DV<br>DV | 200L4<br>200L4 | 330<br>345  | 157<br>158                                                                          |
|               | 207              | 1390          | 7.12   | 11700                | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 237              | 1210          | 6.21   | 11400                | 1.55      |                                                                                    |            |          |                |             |                                                                                     |
|               | 283              | 1010          | 5.20   | 10900                | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               | 327              | 880           | 4.50*  | 10500                | 1.85      | RX<br>RXF                                                                          | 107<br>107 | DV<br>DV | 200L4<br>200L4 | 330<br>345  | 128<br>129                                                                          |
|               | 434              | 660           | 3.38   | 6370                 | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 479              | 600           | 3.07   | 6310                 | 1.40      |                                                                                    |            |          |                |             |                                                                                     |
|               | 557              | 515           | 2.64*  | 6180                 | 1.60      |                                                                                    |            |          |                |             |                                                                                     |
|               | 638              | 450           | 2.30   | 6050                 | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
|               | 752              | 380           | 1.95   | 5870                 | 2.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 860              | 335           | 1.71   | 5720                 | 2.1       | RX<br>RXF                                                                          | 97<br>97   | DV<br>DV | 200L4<br>200L4 | 295<br>305  | 126<br>127                                                                          |
|               | 1020             | 280           | 1.44   | 5520                 | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 503              | 570           | 2.92   | 3120                 | 1.05      |                                                                                    |            |          |                |             |                                                                                     |
|               | 556              | 515           | 2.64   | 3560                 | 1.15      |                                                                                    |            |          |                |             |                                                                                     |
|               | 656              | 435           | 2.24*  | 4050                 | 1.35      |                                                                                    |            |          |                |             |                                                                                     |
|               | 751              | 380           | 1.96   | 4450                 | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
| 37            | 898              | 320           | 1.64   | 4580                 | 1.60      | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 225S4<br>225S4 | 900<br>900  | 165<br>166                                                                          |
|               | 1040             | 275           | 1.42   | 4450                 | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 16               | 22400         | 93.19  | 120000               | 0.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 18               | 19900         | 82.91* | 120000               | 0.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 20               | 17700         | 73.70* | 120000               | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 22               | 16200         | 67.40  | 120000               | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 25               | 14100         | 58.65  | 120000               | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 28               | 12400         | 51.76  | 120000               | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 33               | 10800         | 44.87  | 120000               | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 37               | 9600          | 39.92  | 120000               | 1.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 43               | 8270          | 34.41  | 120000               | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 53               | 6720          | 27.96  | 120000               | 2.7       | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 225S4<br>225S4 | 890<br>900  | 165<br>166                                                                          |
|               | 48               | 7380          | 30.71  | 120000               | 1.35      |                                                                                    |            |          |                |             |                                                                                     |
|               | 60               | 5900          | 24.57  | 120000               | 2.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 67               | 5250          | 21.85  | 120000               | 2.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 77               | 4580          | 19.03  | 120000               | 3.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 87               | 4080          | 16.98  | 120000               | 3.7       | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 225S4<br>225S4 | 650<br>660  | 163<br>164                                                                          |
|               | 22               | 16100         | 66.99  | 35000                | 0.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 24               | 14700         | 61.09  | 54200                | 0.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 28               | 12700         | 52.87  | 63200                | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 32               | 11200         | 46.65  | 65900                | 1.15      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 225S4<br>225S4 | 650<br>660  | 163<br>164                                                                          |
|               | 36               | 9680          | 40.29  | 68200                | 1.35      |                                                                                    |            |          |                |             |                                                                                     |
|               | 41               | 8570          | 35.64  | 69700                | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 49               | 7200          | 29.95  | 71100                | 1.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 61               | 5810          | 24.19  | 72400                | 2.1       | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 225S4<br>225S4 | 640<br>650  | 163<br>164                                                                          |
|               | 72               | 4910          | 20.44  | 73000                | 2.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 82               | 4340          | 18.04  | 73400                | 2.4       |                                                                                    |            |          |                |             |                                                                                     |
|               | 94               | 3760          | 15.64  | 73700                | 3.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 106              | 3340          | 13.91  | 73900                | 3.8       | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 225S4<br>225S4 | 520<br>550  | 161<br>162                                                                          |
|               | 39               | 9050          | 37.65  | 49400                | 0.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 45               | 7910          | 32.91  | 53600                | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 53               | 6690          | 27.83  | 55900                | 1.15      |                                                                                    |            |          |                |             |                                                                                     |
|               | 61               | 5800          | 24.12  | 57300                | 1.40      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 225S4<br>225S4 | 510<br>540  | 161<br>162                                                                          |
|               | 67               | 5290          | 22.00* | 58000                | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 77               | 4580          | 19.04* | 57800                | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               | 88               | 4040          | 16.80* | 57300                | 2.0       | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 225S4<br>225S4 | 510<br>540  | 161<br>162                                                                          |
|               | 101              | 3490          | 14.51  | 56600                | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 115              | 3080          | 12.83  | 55800                | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 136              | 2590          | 10.79  | 54400                | 3.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 169              | 2090          | 8.71   | 52600                | 3.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 194              | 1820          | 7.59   | 51900                | 2.8       |                                                                                    |            |          |                |             |                                                                                     |
|               | 230              | 1530          | 6.38   | 50100                | 3.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 285              | 1240          | 5.15   | 47800                | 3.7       |                                                                                    |            |          |                |             |                                                                                     |

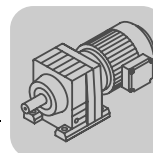


| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | $i$    | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  |            |          |                | $m$<br>[kg] |  |
|---------------|------------------|---------------|--------|----------------------|-----------|------------------------------------------------------------------------------------|------------|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| 37            | 73               | 4820          | 20.07  | 16100                | 0.90      | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 225S4<br>225S4 | 435<br>440  | 159<br>160                                                                          |
|               | 81               | 4380          | 18.21  | 16100                | 1.00      |                                                                                    |            |          |                |             |                                                                                     |
|               | 94               | 3760          | 15.65  | 15900                | 1.15      |                                                                                    |            |          |                |             |                                                                                     |
|               | 108              | 3280          | 13.66  | 15700                | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 127              | 2790          | 11.59  | 15400                | 1.55      |                                                                                    |            |          |                |             |                                                                                     |
|               | 145              | 2430          | 10.13  | 15100                | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               | 172              | 2060          | 8.56   | 14700                | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 187              | 1890          | 7.86   | 15000                | 1.55      |                                                                                    |            |          |                |             |                                                                                     |
|               | 221              | 1600          | 6.66   | 14400                | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
|               | 252              | 1400          | 5.82   | 14000                | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 299              | 1180          | 4.92   | 13400                | 2.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 434              | 810           | 3.38   | 4470                 | 1.00      | RX<br>RXF                                                                          | 107<br>107 | DV<br>DV | 225S4<br>225S4 | 380<br>395  | 128<br>129                                                                          |
|               | 479              | 740           | 3.07   | 4950                 | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 557              | 635           | 2.64*  | 5530                 | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 638              | 555           | 2.30   | 5610                 | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 752              | 470           | 1.95   | 5490                 | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 860              | 410           | 1.71   | 5370                 | 1.70      |                                                                                    |            |          |                |             |                                                                                     |
|               | 1020             | 345           | 1.44   | 5220                 | 1.85      |                                                                                    |            |          |                |             |                                                                                     |
| 45            | 20               | 21500         | 73.70* | 120000               | 0.85      | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 225M4<br>225M4 | 930<br>930  | 165<br>166                                                                          |
|               | 22               | 19700         | 67.40  | 120000               | 0.90      |                                                                                    |            |          |                |             |                                                                                     |
|               | 25               | 17100         | 58.65  | 120000               | 1.05      |                                                                                    |            |          |                |             |                                                                                     |
|               | 28               | 15100         | 51.76  | 120000               | 1.20      |                                                                                    |            |          |                |             |                                                                                     |
|               | 33               | 13100         | 44.87  | 120000               | 1.35      | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 225M4<br>225M4 | 930<br>930  | 165<br>166                                                                          |
|               | 37               | 11700         | 39.92  | 120000               | 1.55      |                                                                                    |            |          |                |             |                                                                                     |
|               | 43               | 10100         | 34.41  | 120000               | 1.80      |                                                                                    |            |          |                |             |                                                                                     |
|               | 53               | 8170          | 27.96  | 120000               | 2.2       |                                                                                    |            |          |                |             |                                                                                     |
|               | 62               | 6930          | 23.71  | 120000               | 2.6       |                                                                                    |            |          |                |             |                                                                                     |
|               | 48               | 8980          | 30.71  | 120000               | 1.10      | R<br>RF                                                                            | 167<br>167 | DV<br>DV | 225M4<br>225M4 | 920<br>930  | 165<br>166                                                                          |
|               | 60               | 7180          | 24.57  | 120000               | 1.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 67               | 6390          | 21.85  | 120000               | 2.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 77               | 5560          | 19.03  | 120000               | 2.9       |                                                                                    |            |          |                |             |                                                                                     |
|               | 87               | 4960          | 16.98  | 120000               | 3.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 28               | 15500         | 52.87  | 44400                | 0.85      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 225M4<br>225M4 | 680<br>690  | 163<br>164                                                                          |
|               | 32               | 13600         | 46.65  | 61300                | 0.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 36               | 11800         | 40.29  | 65000                | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 41               | 10400         | 35.64  | 67200                | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 49               | 8760          | 29.95  | 69400                | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 61               | 7070          | 24.19  | 71300                | 1.70      | R<br>RF                                                                            | 147<br>147 | DV<br>DV | 225M4<br>225M4 | 670<br>680  | 163<br>164                                                                          |
|               | 72               | 5970          | 20.44  | 72200                | 2.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 82               | 5270          | 18.04  | 72800                | 2.0       |                                                                                    |            |          |                |             |                                                                                     |
|               | 94               | 4570          | 15.64  | 73200                | 2.8       |                                                                                    |            |          |                |             |                                                                                     |
|               | 106              | 4070          | 13.91  | 73500                | 3.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 123              | 3510          | 11.99  | 73800                | 3.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 203              | 2120          | 7.25   | 74300                | 4.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 45               | 9620          | 32.91  | 41700                | 0.85      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 225M4<br>225M4 | 550<br>580  | 161<br>162                                                                          |
|               | 53               | 8130          | 27.83  | 51200                | 0.95      |                                                                                    |            |          |                |             |                                                                                     |
|               | 61               | 7050          | 24.12  | 52400                | 1.15      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 225M4<br>225M4 | 540<br>570  | 161<br>162                                                                          |
|               | 67               | 6430          | 22.00* | 52900                | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 77               | 5570          | 19.04* | 53300                | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 88               | 4910          | 16.80* | 53400                | 1.65      |                                                                                    |            |          |                |             |                                                                                     |
|               | 101              | 4240          | 14.51  | 53200                | 1.90      | R<br>RF                                                                            | 137<br>137 | DV<br>DV | 225M4<br>225M4 | 540<br>570  | 161<br>162                                                                          |
|               | 115              | 3750          | 12.83  | 52800                | 2.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 136              | 3150          | 10.79  | 51900                | 2.5       |                                                                                    |            |          |                |             |                                                                                     |
|               | 169              | 2550          | 8.71   | 50500                | 3.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 194              | 2220          | 7.59   | 50200                | 2.3       |                                                                                    |            |          |                |             |                                                                                     |
|               | 230              | 1860          | 6.38   | 48700                | 2.7       |                                                                                    |            |          |                |             |                                                                                     |
|               | 285              | 1510          | 5.15   | 46700                | 3.1       |                                                                                    |            |          |                |             |                                                                                     |
|               | 94               | 4580          | 15.65  | 14600                | 0.95      | R<br>RF                                                                            | 107<br>107 | DV<br>DV | 225M4<br>225M4 | 460<br>465  | 159<br>160                                                                          |
|               | 108              | 3990          | 13.66  | 14600                | 1.10      |                                                                                    |            |          |                |             |                                                                                     |
|               | 127              | 3390          | 11.59  | 14400                | 1.25      |                                                                                    |            |          |                |             |                                                                                     |
|               | 145              | 2960          | 10.13  | 14300                | 1.45      |                                                                                    |            |          |                |             |                                                                                     |
|               | 172              | 2500          | 8.56   | 14000                | 1.70      |                                                                                    |            |          |                |             |                                                                                     |
|               | 187              | 2300          | 7.86   | 14400                | 1.30      |                                                                                    |            |          |                |             |                                                                                     |
|               | 221              | 1950          | 6.66   | 14000                | 1.50      |                                                                                    |            |          |                |             |                                                                                     |
|               | 252              | 1700          | 5.82   | 13600                | 1.75      |                                                                                    |            |          |                |             |                                                                                     |
|               | 299              | 1440          | 4.92   | 13100                | 2.0       |                                                                                    |            |          |                |             |                                                                                     |

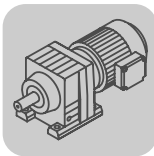


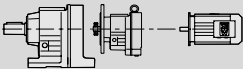
# R..DR/DT/DV R..D.. [kW]

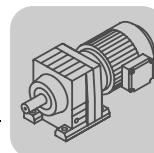
| P <sub>m</sub><br>[kW] | n <sub>a</sub><br>[1/min] | M <sub>a</sub><br>[Nm] | i      | F <sub>Ra</sub> <sup>1)</sup><br>[N] | SEW f <sub>B</sub> |           |            |           |              | m<br>[kg] |     |
|------------------------|---------------------------|------------------------|--------|--------------------------------------|--------------------|-----------|------------|-----------|--------------|-----------|-----|
| <b>45</b>              | <b>434</b>                | 990                    | 3.38   | 1360                                 | 0.85               | <b>RX</b> | <b>107</b> | <b>DV</b> | <b>225M4</b> | 405       | 128 |
|                        | <b>479</b>                | 900                    | 3.07   | 2080                                 | 0.90               |           |            |           |              |           |     |
|                        | <b>557</b>                | 770                    | 2.64*  | 2970                                 | 1.10               |           |            |           |              |           |     |
|                        | <b>638</b>                | 675                    | 2.30   | 3640                                 | 1.25               |           |            |           |              |           |     |
|                        | <b>752</b>                | 570                    | 1.95   | 4200                                 | 1.35               |           |            |           |              |           |     |
|                        | <b>860</b>                | 500                    | 1.71   | 4540                                 | 1.40               |           |            |           |              |           |     |
|                        | <b>1020</b>               | 420                    | 1.44   | 4880                                 | 1.55               |           |            |           |              |           |     |
| <b>55</b>              | <b>25</b>                 | 20900                  | 58.65  | 120000                               | 0.85               | <b>R</b>  | <b>167</b> | <b>DV</b> | <b>250M4</b> | 1060      | 165 |
|                        | <b>29</b>                 | 18400                  | 51.76  | 120000                               | 1.00               |           |            |           |              |           |     |
|                        | <b>33</b>                 | 16000                  | 44.87  | 120000                               | 1.15               |           |            |           |              |           |     |
|                        | <b>37</b>                 | 14200                  | 39.92  | 120000                               | 1.25               |           |            |           |              |           |     |
|                        | <b>43</b>                 | 12300                  | 34.41  | 120000                               | 1.45               |           |            |           |              |           |     |
|                        | <b>53</b>                 | 9960                   | 27.96  | 120000                               | 1.80               |           |            |           |              |           |     |
|                        | <b>62</b>                 | 8440                   | 23.71  | 120000                               | 2.1                |           |            |           |              |           |     |
|                        | <b>60</b>                 | 8750                   | 24.57  | 120000                               | 1.60               | <b>R</b>  | <b>167</b> | <b>DV</b> | <b>250M4</b> | 1050      | 165 |
|                        | <b>68</b>                 | 7780                   | 21.85  | 120000                               | 1.65               |           |            |           |              |           |     |
|                        | <b>77</b>                 | 6780                   | 19.03  | 120000                               | 2.4                |           |            |           |              |           |     |
|                        | <b>87</b>                 | 6050                   | 16.98  | 120000                               | 2.5                | <b>R</b>  | <b>167</b> | <b>DV</b> | <b>250M4</b> | 1050      | 165 |
|                        | <b>102</b>                | 5150                   | 14.48  | 120000                               | 3.5                |           |            |           |              |           |     |
|                        | <b>123</b>                | 4270                   | 11.99  | 120000                               | 4.0                |           |            |           |              |           |     |
|                        | <b>32</b>                 | 16600                  | 46.65  | 26600                                | 0.80               | <b>R</b>  | <b>147</b> | <b>DV</b> | <b>250M4</b> | 800       | 163 |
|                        | <b>37</b>                 | 14300                  | 40.29  | 58200                                | 0.90               |           |            |           |              |           |     |
|                        | <b>41</b>                 | 12700                  | 35.64  | 63300                                | 1.00               |           |            |           |              |           |     |
|                        | <b>49</b>                 | 10700                  | 29.95  | 66800                                | 1.20               |           |            |           |              |           |     |
|                        | <b>61</b>                 | 8610                   | 24.19  | 69600                                | 1.40               |           |            |           |              |           |     |
|                        | <b>72</b>                 | 7280                   | 20.44  | 71100                                | 1.65               | <b>R</b>  | <b>147</b> | <b>DV</b> | <b>250M4</b> | 790       | 163 |
|                        | <b>82</b>                 | 6420                   | 18.04  | 71900                                | 1.65               |           |            |           |              |           |     |
|                        | <b>94</b>                 | 5570                   | 15.64  | 72500                                | 2.3                |           |            |           |              |           |     |
|                        | <b>106</b>                | 4950                   | 13.91  | 73000                                | 2.5                |           |            |           |              |           |     |
|                        | <b>123</b>                | 4270                   | 11.99  | 73400                                | 3.0                | <b>R</b>  | <b>147</b> | <b>DV</b> | <b>250M4</b> | 790       | 163 |
|                        | <b>151</b>                | 3470                   | 9.74   | 73800                                | 3.8                |           |            |           |              |           |     |
|                        | <b>203</b>                | 2580                   | 7.25   | 74200                                | 3.4                |           |            |           |              |           |     |
|                        | <b>250</b>                | 2100                   | 5.89   | 72500                                | 4.1                |           |            |           |              |           |     |
|                        | <b>77</b>                 | 6780                   | 19.04* | 47800                                | 1.20               | <b>R</b>  | <b>137</b> | <b>DV</b> | <b>250M4</b> | 660       | 161 |
|                        | <b>88</b>                 | 5980                   | 16.80* | 48500                                | 1.35               |           |            |           |              |           |     |
|                        | <b>102</b>                | 5170                   | 14.51  | 48900                                | 1.55               |           |            |           |              |           |     |
|                        | <b>115</b>                | 4570                   | 12.83  | 49000                                | 1.75               | <b>R</b>  | <b>137</b> | <b>DV</b> | <b>250M4</b> | 660       | 161 |
|                        | <b>137</b>                | 3840                   | 10.79  | 48800                                | 2.1                |           |            |           |              |           |     |
|                        | <b>169</b>                | 3100                   | 8.71   | 48000                                | 2.5                |           |            |           |              |           |     |
|                        | <b>194</b>                | 2700                   | 7.59   | 48100                                | 1.90               |           |            |           |              |           |     |
|                        | <b>231</b>                | 2270                   | 6.38   | 46900                                | 2.3                |           |            |           |              |           |     |
|                        | <b>286</b>                | 1830                   | 5.15   | 45200                                | 2.5                |           |            |           |              |           |     |
| <b>75</b>              | <b>33</b>                 | 21700                  | 44.87  | 120000                               | 0.85               | <b>R</b>  | <b>167</b> | <b>DV</b> | <b>280S4</b> | 1190      | 165 |
|                        | <b>37</b>                 | 19300                  | 39.92  | 120000                               | 0.95               |           |            |           |              |           |     |
|                        | <b>43</b>                 | 16700                  | 34.41  | 120000                               | 1.10               |           |            |           |              |           |     |
|                        | <b>53</b>                 | 13500                  | 27.96  | 120000                               | 1.35               |           |            |           |              |           |     |
|                        | <b>62</b>                 | 11500                  | 23.71  | 120000                               | 1.55               |           |            |           |              |           |     |
|                        | <b>60</b>                 | 11900                  | 24.57  | 120000                               | 1.20               | <b>R</b>  | <b>167</b> | <b>DV</b> | <b>280S4</b> | 1180      | 165 |
|                        | <b>68</b>                 | 10600                  | 21.85  | 120000                               | 1.25               |           |            |           |              |           |     |
|                        | <b>78</b>                 | 9210                   | 19.03  | 120000                               | 1.75               |           |            |           |              |           |     |
|                        | <b>87</b>                 | 8220                   | 16.98  | 120000                               | 1.85               | <b>R</b>  | <b>167</b> | <b>DV</b> | <b>280S4</b> | 1180      | 165 |
|                        | <b>102</b>                | 7000                   | 14.48  | 120000                               | 2.6                |           |            |           |              |           |     |
|                        | <b>123</b>                | 5800                   | 11.99  | 116600                               | 2.9                |           |            |           |              |           |     |
|                        | <b>145</b>                | 4950                   | 10.24  | 112800                               | 3.4                |           |            |           |              |           |     |
|                        | <b>49</b>                 | 14500                  | 29.95  | 56500                                | 0.90               | <b>R</b>  | <b>147</b> | <b>DV</b> | <b>280S4</b> | 940       | 163 |
|                        | <b>61</b>                 | 11700                  | 24.19  | 65100                                | 1.00               |           |            |           |              |           |     |

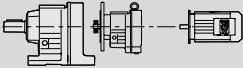


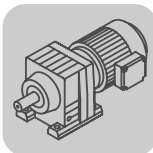
| $P_m$<br>[kW] | $n_a$<br>[1/min] | $M_a$<br>[Nm] | i     | $F_{Ra}^{1)}$<br>[N] | SEW $f_B$ |  | $m$<br>[kg] |  |                  |      |     |
|---------------|------------------|---------------|-------|----------------------|-----------|------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|------------------|------|-----|
| 75            | 72               | 9890          | 20.44 | 67900                | 1.20      | R<br>RF                                                                            | 147<br>147  | DV<br>DV                                                                            | 280S4<br>280S4   | 930  | 163 |
|               | 82               | 8730          | 18.04 | 69500                | 1.20      |                                                                                    |             |                                                                                     |                  | 940  | 164 |
|               | 95               | 7570          | 15.64 | 70800                | 1.70      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 106              | 6730          | 13.91 | 71600                | 1.85      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 123              | 5800          | 11.99 | 72400                | 2.2       | R<br>RF                                                                            | 147<br>147  | DV<br>DV                                                                            | 280S4<br>280S4   | 930  | 163 |
|               | 152              | 4710          | 9.74  | 73100                | 2.8       |                                                                                    |             |                                                                                     |                  | 940  | 164 |
|               | 179              | 4000          | 8.26  | 73500                | 3.3       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 204              | 3510          | 7.25  | 73100                | 2.5       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 251              | 2850          | 5.89  | 70100                | 3.0       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 296              | 2420          | 5.00  | 67600                | 3.6       |                                                                                    |             |                                                                                     |                  |      |     |
| 90            | 37               | 23200         | 39.92 | 120000               | 0.80      | R<br>RF                                                                            | 167<br>167  | DV<br>DV                                                                            | 280M4<br>280M4   | 1190 | 165 |
|               | 43               | 20000         | 34.41 | 120000               | 0.90      |                                                                                    |             |                                                                                     |                  | 1200 | 166 |
|               | 53               | 16200         | 27.96 | 120000               | 1.10      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 62               | 13800         | 23.71 | 120000               | 1.30      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 78               | 11100         | 19.03 | 120000               | 1.45      | R<br>RF                                                                            | 167<br>167  | DV<br>DV                                                                            | 280M4<br>280M4   | 1180 | 165 |
|               |                  |               |       |                      | 1190      |                                                                                    |             |                                                                                     |                  | 166  |     |
|               | 87               | 9860          | 16.98 | 120000               | 1.50      | R<br>RF                                                                            | 167<br>167  | DV<br>DV                                                                            | 280M4<br>280M4   | 1180 | 165 |
|               | 102              | 8410          | 14.48 | 117300               | 2.1       |                                                                                    |             |                                                                                     |                  | 1190 | 166 |
|               | 123              | 6960          | 11.99 | 113500               | 2.4       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 145              | 5940          | 10.24 | 110100               | 2.9       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 95               | 9080          | 15.64 | 69000                | 1.45      | R<br>RF                                                                            | 147<br>147  | DV<br>DV                                                                            | 280M4<br>280M4   | 930  | 163 |
|               | 106              | 8080          | 13.91 | 70200                | 1.55      |                                                                                    |             |                                                                                     |                  | 940  | 164 |
|               | 123              | 6960          | 11.99 | 71400                | 1.85      | R<br>RF                                                                            | 147<br>147  | DV<br>DV                                                                            | 280M4<br>280M4   | 930  | 163 |
|               | 152              | 5660          | 9.74  | 72500                | 2.3       |                                                                                    |             |                                                                                     |                  | 940  | 164 |
|               | 179              | 4800          | 8.26  | 73000                | 2.7       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 204              | 4210          | 7.25  | 70900                | 2.1       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 251              | 3420          | 5.89  | 68300                | 2.5       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 296              | 2900          | 5.00  | 66100                | 3.0       |                                                                                    |             |                                                                                     |                  |      |     |
| 110           | 53               | 19800         | 27.96 | 117100               | 0.90      | R<br>RF                                                                            | 167<br>167  | D<br>D                                                                              | 315S4<br>315S4   | 1500 | 165 |
|               | 63               | 16800         | 23.71 | 116900               | 1.05      |                                                                                    |             |                                                                                     |                  | 1510 | 166 |
|               | 78               | 13500         | 19.03 | 115500               | 1.20      | R<br>RF                                                                            | 167<br>167  | D<br>D                                                                              | 315S4<br>315S4   | 1500 | 165 |
|               | 87               | 12000         | 16.98 | 114300               | 1.25      |                                                                                    |             |                                                                                     |                  | 1500 | 166 |
|               | 103              | 10200         | 14.48 | 112200               | 1.75      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 124              | 8480          | 11.99 | 109300               | 2.0       |                                                                                    |             |                                                                                     |                  |      |     |
|               | 145              | 7240          | 10.24 | 106500               | 2.4       |                                                                                    |             |                                                                                     |                  |      |     |
| 132           | 63               | 20100         | 23.71 | 107900               | 0.90      | R<br>RF                                                                            | 167<br>167  | D<br>D                                                                              | 315M4<br>315M4   | 1600 | 165 |
|               |                  |               |       |                      | 1600      |                                                                                    |             |                                                                                     |                  | 166  |     |
|               | 78               | 16200         | 19.03 | 108300               | 1.00      | R<br>RF                                                                            | 167<br>167  | D<br>D                                                                              | 315M4<br>315M4   | 1590 | 165 |
|               | 87               | 14400         | 16.98 | 107800               | 1.05      |                                                                                    |             |                                                                                     |                  | 1600 | 166 |
|               | 103              | 12300         | 14.48 | 106700               | 1.45      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 124              | 10200         | 11.99 | 104700               | 1.65      |                                                                                    |             |                                                                                     |                  |      |     |
|               | 145              | 8690          | 10.24 | 102600               | 1.95      |                                                                                    |             |                                                                                     |                  |      |     |
| 160           | 103              | 14900         | 14.48 | 99700                | 1.20      | R<br>RF                                                                            | 167<br>167  | D<br>D                                                                              | 315M4A<br>315M4A | 1750 | 165 |
|               | 124              | 12300         | 11.99 | 98900                | 1.40      |                                                                                    |             |                                                                                     |                  | 1760 | 166 |
|               | 145              | 10500         | 10.24 | 97600                | 1.60      |                                                                                    |             |                                                                                     |                  |      |     |


**3.4 R..R..D.. [Nm]**

| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | i    | $F_{Ra}^{1)}$<br>[N] |  |                                |                        |                            | m<br>[kg] |  |
|----------------------|------------------|------|----------------------|------------------------------------------------------------------------------------|--------------------------------|------------------------|----------------------------|-----------|-------------------------------------------------------------------------------------|
| <b>130</b>           | <b>0.16</b>      | 8612 | 4230                 | <b>R</b><br><b>RF</b>                                                              | <b>27 R17</b><br><b>27 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 12        | 167                                                                                 |
|                      | <b>0.19</b>      | 7425 | 4230                 |                                                                                    |                                |                        |                            | 11        | 167                                                                                 |
|                      | <b>0.20</b>      | 6921 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.23</b>      | 6050 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.26</b>      | 5217 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.30</b>      | 4661 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.34</b>      | 4073 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.39</b>      | 3516 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.44</b>      | 3160 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.50</b>      | 2763 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.57</b>      | 2414 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.65</b>      | 2110 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.76</b>      | 1822 | 4230                 | <b>R</b><br><b>RF</b>                                                              | <b>27 R17</b><br><b>27 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 11        | 167                                                                                 |
|                      | <b>0.87</b>      | 1580 | 4230                 |                                                                                    |                                |                        |                            | 11        | 167                                                                                 |
|                      | <b>0.94</b>      | 1464 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.1</b>       | 1270 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.2</b>       | 1100 | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.4</b>       | 972  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.6</b>       | 840  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.9</b>       | 741  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>2.1</b>       | 654  | 4230                 | <b>R</b><br><b>RF</b>                                                              | <b>27 R17</b><br><b>27 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> |           |                                                                                     |
|                      | <b>2.4</b>       | 566  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>2.8</b>       | 499  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>3.1</b>       | 440  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>3.6</b>       | 381  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>4.2</b>       | 329  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>4.8</b>       | 290  | 4230                 | <b>R</b><br><b>RF</b>                                                              | <b>27 R17</b><br><b>27 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 11        | 167                                                                                 |
|                      | <b>5.4</b>       | 256  | 4230                 |                                                                                    |                                |                        |                            | 11        | 167                                                                                 |
|                      | <b>6.1</b>       | 227  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>6.8</b>       | 203  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>7.4</b>       | 179  | 4230                 | <b>R</b><br><b>RF</b>                                                              | <b>27 R17</b><br><b>27 R17</b> | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b> | 11        | 167                                                                                 |
|                      | <b>8.5</b>       | 156  | 4230                 |                                                                                    |                                |                        |                            | 11        | 167                                                                                 |
|                      | <b>9.8</b>       | 135  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>11</b>        | 118  | 4230                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>12</b>        | 104  | 4230                 | <b>R</b><br><b>RF</b>                                                              | <b>27 R17</b><br><b>27 R17</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b> | 12        | 167                                                                                 |
|                      | <b>14</b>        | 90   | 4230                 |                                                                                    |                                |                        |                            | 12        | 167                                                                                 |
| <b>200</b>           | <b>0.16</b>      | 8595 | 4950                 | <b>R</b><br><b>RF</b>                                                              | <b>37 R17</b><br><b>37 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 17        | 167                                                                                 |
|                      | <b>0.19</b>      | 7411 | 4950                 |                                                                                    |                                |                        |                            | 19        | 167                                                                                 |
|                      | <b>0.20</b>      | 6907 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.23</b>      | 6038 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.27</b>      | 5206 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.30</b>      | 4651 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.34</b>      | 4065 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.38</b>      | 3658 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.44</b>      | 3154 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.50</b>      | 2757 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.57</b>      | 2409 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.66</b>      | 2106 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>0.76</b>      | 1818 | 4950                 | <b>R</b><br><b>RF</b>                                                              | <b>37 R17</b><br><b>37 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> | 17        | 167                                                                                 |
|                      | <b>0.88</b>      | 1576 | 4950                 |                                                                                    |                                |                        |                            | 19        | 167                                                                                 |
|                      | <b>1.0</b>       | 1359 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.1</b>       | 1267 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.3</b>       | 1098 | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.4</b>       | 970  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.7</b>       | 839  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>1.9</b>       | 740  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>2.1</b>       | 653  | 4950                 | <b>R</b><br><b>RF</b>                                                              | <b>37 R17</b><br><b>37 R17</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b> |           |                                                                                     |
|                      | <b>2.4</b>       | 577  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>2.8</b>       | 498  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>3.1</b>       | 439  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>3.6</b>       | 378  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |
|                      | <b>4.2</b>       | 328  | 4950                 |                                                                                    |                                |                        |                            |           |                                                                                     |

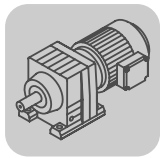


| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | i     | $F_{Ra}^{1)}$<br>[N] |  |        |    |      | m<br>[kg] |  |
|----------------------|------------------|-------|----------------------|------------------------------------------------------------------------------------|--------|----|------|-----------|-------------------------------------------------------------------------------------|
| 200                  | 4.6              | 289   | 4950                 | R<br>RF                                                                            | 37 R17 | DR | 63M4 | 17        | 167                                                                                 |
|                      | 5.0              | 265   | 4950                 |                                                                                    | 37 R17 | DR | 63M4 | 18        | 167                                                                                 |
|                      | 5.8              | 226   | 4950                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 6.5              | 202   | 4950                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 7.3              | 179   | 4950                 | R<br>RF                                                                            | 37 R17 | DR | 63L4 | 18        | 167                                                                                 |
|                      | 8.3              | 156   | 4950                 |                                                                                    | 37 R17 | DR | 63L4 | 19        | 167                                                                                 |
|                      | 9.7              | 135   | 4950                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 10               | 127   | 4950                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 13               | 104   | 4950                 | R<br>RF                                                                            | 37 R17 | DT | 71D4 | 18        | 167                                                                                 |
|                      | 15               | 90    | 4950                 |                                                                                    | 37 R17 | DT | 71D4 | 20        | 167                                                                                 |
| 300                  | 0.10             | 13598 | 5420                 | R<br>RF                                                                            |        |    |      |           |                                                                                     |
|                      | 0.11             | 12472 | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.13             | 10619 | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.15             | 9155  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.16             | 8534  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.18             | 7460  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.20             | 6993  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.22             | 6171  | 5420                 |                                                                                    | 47 R37 | DR | 63S4 | 29        | 167                                                                                 |
|                      | 0.25             | 5624  | 5420                 |                                                                                    | 47 R37 | DR | 63S4 | 29        | 167                                                                                 |
|                      | 0.28             | 4849  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.31             | 4520  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.35             | 3951  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.37             | 3704  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.42             | 3268  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.48             | 2898  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.56             | 2463  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.53             | 2598  | 5420                 | R<br>RF                                                                            |        |    |      |           |                                                                                     |
|                      | 0.58             | 2383  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.68             | 2029  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.79             | 1749  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.85             | 1630  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.97             | 1425  | 5420                 |                                                                                    | 47 R37 | DR | 63S4 | 29        | 167                                                                                 |
|                      | 1.0              | 1336  | 5420                 |                                                                                    | 47 R37 | DR | 63S4 | 29        | 167                                                                                 |
|                      | 1.2              | 1179  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 1.3              | 1074  | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 1.5              | 927   | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 1.6              | 863   | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 1.8              | 755   | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 2.5              | 546   | 5420                 | R<br>RF                                                                            | 47 R37 | DR | 63S4 | 28        | 167                                                                                 |
|                      | 2.8              | 502   | 5420                 |                                                                                    | 47 R37 | DR | 63S4 | 28        | 167                                                                                 |
|                      | 3.1              | 429   | 5420                 | R<br>RF                                                                            |        |    |      |           |                                                                                     |
|                      | 3.6              | 372   | 5420                 |                                                                                    | 47 R37 | DR | 63M4 | 28        | 167                                                                                 |
|                      | 3.8              | 348   | 5420                 |                                                                                    | 47 R37 | DR | 63M4 | 28        | 167                                                                                 |
|                      | 4.4              | 301   | 5420                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 5.1              | 255   | 5420                 | R<br>RF                                                                            | 47 R37 | DR | 63L4 | 29        | 167                                                                                 |
|                      | 5.7              | 228   | 5420                 |                                                                                    | 47 R37 | DR | 63L4 | 29        | 167                                                                                 |
| 450                  | 0.10             | 14369 | 7110                 | R<br>RF                                                                            |        |    |      |           |                                                                                     |
|                      | 0.11             | 12095 | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.13             | 10860 | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.15             | 9445  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.16             | 8480  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.19             | 7312  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.21             | 6521  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.25             | 5585  | 7110                 |                                                                                    | 57 R37 | DR | 63S4 | 34        | 167                                                                                 |
|                      | 0.28             | 4928  | 7110                 |                                                                                    | 57 R37 | DR | 63S4 | 38        | 167                                                                                 |
|                      | 0.32             | 4378  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.36             | 3873  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.41             | 3344  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.47             | 2907  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.54             | 2567  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.61             | 2244  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |
|                      | 0.70             | 1967  | 7110                 |                                                                                    |        |    |      |           |                                                                                     |

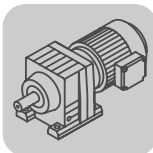


# R..DR/DT/DV R..R..D.. [Nm]

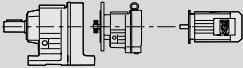
| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | i     | $F_{Ra}^{1)}$<br>[N] |         |                  |          |              | m<br>[kg] |     |
|----------------------|------------------|-------|----------------------|---------|------------------|----------|--------------|-----------|-----|
| 450                  | 0.80             | 1732  | 7110                 | R<br>RF | 57 R37<br>57 R37 | DR<br>DR | 63S4<br>63S4 | 34        | 167 |
|                      | 0.89             | 1555  | 7110                 |         |                  |          |              | 38        | 167 |
|                      | 0.99             | 1399  | 7110                 |         |                  |          |              |           |     |
|                      | 1.2              | 1189  | 7110                 |         |                  |          |              |           |     |
|                      | 1.3              | 1034  | 7110                 |         |                  |          |              |           |     |
|                      | 1.8              | 782   | 7110                 |         |                  |          |              |           |     |
|                      | 1.9              | 678   | 7110                 | R<br>RF | 57 R37<br>57 R37 | DR<br>DR | 63M4<br>63M4 | 34        | 167 |
|                      | 2.2              | 604   | 7110                 |         |                  |          |              | 38        | 167 |
|                      | 2.5              | 537   | 7110                 |         |                  |          |              |           |     |
|                      | 2.8              | 471   | 7110                 |         |                  |          |              |           |     |
|                      | 3.6              | 357   | 7110                 | R<br>RF | 57 R37<br>57 R37 | DR<br>DR | 63L4<br>63L4 | 35        | 167 |
|                      | 4.1              | 319   | 7110                 |         |                  |          |              | 38        | 167 |
|                      | 5.1              | 273   | 7110                 | R<br>RF | 57 R37<br>57 R37 | DT<br>DT | 71D4<br>71D4 | 36        | 167 |
|                      | 5.7              | 241   | 7110                 |         |                  |          |              | 39        | 167 |
| 600                  | 0.09             | 15361 | 7560                 | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63S4<br>63S4 | 41        | 167 |
|                      | 0.11             | 12931 | 7560                 |         |                  |          |              | 44        | 167 |
|                      | 0.12             | 11996 | 7560                 |         |                  |          |              |           |     |
|                      | 0.14             | 10097 | 7560                 |         |                  |          |              |           |     |
|                      | 0.15             | 9066  | 7560                 |         |                  |          |              |           |     |
|                      | 0.18             | 7816  | 7560                 |         |                  |          |              |           |     |
|                      | 0.20             | 6732  | 7560                 |         |                  |          |              |           |     |
|                      | 0.23             | 5970  | 7560                 |         |                  |          |              |           |     |
|                      | 0.26             | 5268  | 7560                 |         |                  |          |              |           |     |
|                      | 0.29             | 4680  | 7560                 |         |                  |          |              |           |     |
|                      | 0.33             | 4136  | 7560                 |         |                  |          |              |           |     |
|                      | 0.39             | 3566  | 7560                 |         |                  |          |              |           |     |
|                      | 0.44             | 3125  | 7560                 |         |                  |          |              |           |     |
|                      | 0.50             | 2745  | 7560                 |         |                  |          |              |           |     |
|                      | 0.57             | 2403  | 7560                 |         |                  |          |              |           |     |
|                      | 0.51             | 2682  | 7560                 | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63S4<br>63S4 | 40        | 167 |
|                      | 0.56             | 2460  | 7560                 |         |                  |          |              | 43        | 167 |
|                      | 0.66             | 2094  | 7560                 |         |                  |          |              |           |     |
|                      | 0.76             | 1805  | 7560                 |         |                  |          |              |           |     |
|                      | 0.85             | 1629  | 7560                 |         |                  |          |              |           |     |
|                      | 0.94             | 1471  | 7560                 |         |                  |          |              |           |     |
|                      | 1.0              | 1379  | 7560                 |         |                  |          |              |           |     |
|                      | 1.8              | 730   | 7560                 | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63M4<br>63M4 | 40        | 167 |
|                      | 2.3              | 571   | 7560                 |         |                  |          |              | 43        | 167 |
|                      | 2.7              | 486   | 7560                 |         |                  |          |              |           |     |
|                      |                  |       |                      | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63L4<br>63L4 | 41        | 167 |
|                      |                  |       |                      |         |                  |          |              | 44        | 167 |
|                      |                  |       |                      |         |                  |          |              |           |     |
|                      | 0.84             | 1652  | 7560                 | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63S4<br>63S4 | 41        | 167 |
|                      | 0.96             | 1432  | 7560                 |         |                  |          |              | 44        | 167 |
|                      | 1.1              | 1259  | 7560                 |         |                  |          |              |           |     |
|                      | 1.2              | 1106  | 7560                 |         |                  |          |              |           |     |
|                      | 1.6              | 836   | 7560                 | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63M4<br>63M4 | 41        | 167 |
|                      | 1.8              | 750   | 7560                 |         |                  |          |              | 44        | 167 |
|                      | 2.0              | 646   | 7560                 |         |                  |          |              |           |     |
|                      | 2.3              | 574   | 7560                 |         |                  |          |              |           |     |
|                      | 2.6              | 495   | 7560                 | R<br>RF | 67 R37<br>67 R37 | DR<br>DR | 63L4<br>63L4 | 41        | 167 |
|                      | 3.0              | 438   | 7560                 |         |                  |          |              | 45        | 167 |
|                      | 3.4              | 388   | 7560                 |         |                  |          |              |           |     |
|                      | 4.0              | 344   | 7560                 | R<br>RF | 67 R37<br>67 R37 | DT<br>DT | 71D4<br>71D4 | 42        | 167 |
|                      | 4.7              | 294   | 7560                 |         |                  |          |              | 46        | 167 |

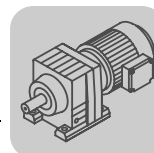


| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | $i$   | $F_{Ra}^{1)}$<br>[N] |         |                  |          |              | $m$<br>[kg] |            |
|----------------------|------------------|-------|----------------------|---------|------------------|----------|--------------|-------------|------------|
| 820                  | 0.08             | 16370 | 9920                 | R<br>RF | 77 R37<br>77 R37 | DR<br>DR | 63S4<br>63S4 | 46<br>52    | 167<br>167 |
|                      | 0.09             | 15015 | 9920                 |         |                  |          |              |             |            |
|                      | 0.10             | 13885 | 9920                 |         |                  |          |              |             |            |
|                      | 0.11             | 12783 | 9920                 |         |                  |          |              |             |            |
|                      | 0.13             | 11021 | 9920                 |         |                  |          |              |             |            |
|                      | 0.14             | 9788  | 9920                 |         |                  |          |              |             |            |
|                      | 0.16             | 8714  | 9920                 |         |                  |          |              |             |            |
|                      | 0.18             | 7617  | 9920                 |         |                  |          |              |             |            |
|                      | 0.20             | 6770  | 9920                 |         |                  |          |              |             |            |
|                      | 0.24             | 5838  | 9920                 |         |                  |          |              |             |            |
|                      | 0.27             | 5184  | 9920                 |         |                  |          |              |             |            |
|                      | 0.31             | 4470  | 9920                 |         |                  |          |              |             |            |
|                      | 0.35             | 3999  | 9920                 |         |                  |          |              |             |            |
|                      | 0.40             | 3488  | 9920                 |         |                  |          |              |             |            |
|                      | 0.45             | 3053  | 9920                 |         |                  |          |              |             |            |
|                      | 0.52             | 2671  | 9920                 |         |                  |          |              |             |            |
|                      | 0.44             | 3151  | 9920                 | R<br>RF | 77 R37<br>77 R37 | DR<br>DR | 63S4<br>63S4 | 45<br>51    | 167<br>167 |
|                      | 0.48             | 2890  | 9920                 |         |                  |          |              |             |            |
|                      | 0.56             | 2460  | 9920                 |         |                  |          |              |             |            |
|                      | 0.65             | 2121  | 9920                 |         |                  |          |              |             |            |
|                      | 0.70             | 1977  | 9920                 |         |                  |          |              |             |            |
|                      | 0.80             | 1728  | 9920                 |         |                  |          |              |             |            |
|                      | 0.85             | 1620  | 9920                 |         |                  |          |              |             |            |
|                      | 0.97             | 1430  | 9920                 |         |                  |          |              |             |            |
|                      | 1.1              | 1303  | 9920                 |         |                  |          |              |             |            |
|                      | 1.2              | 1124  | 9920                 | R<br>RF | 77 R37<br>77 R37 | DR<br>DR | 63M4<br>63M4 | 45<br>51    | 167<br>167 |
|                      | 1.3              | 1047  | 9920                 |         |                  |          |              |             |            |
|                      | 1.4              | 915   | 9920                 |         |                  |          |              |             |            |
|                      | 1.5              | 858   | 9920                 |         |                  |          |              |             |            |
|                      | 1.7              | 757   | 9920                 |         |                  |          |              |             |            |
|                      | 1.9              | 671   | 9920                 | R<br>RF | 77 R37<br>77 R37 | DR<br>DR | 63L4<br>63L4 | 46<br>52    | 167<br>167 |
|                      | 2.3              | 571   | 9920                 |         |                  |          |              |             |            |
|                      | 2.3              | 560   | 9920                 | R<br>RF | 77 R37<br>77 R37 | DR<br>DR | 63L4<br>63L4 | 47<br>53    | 167<br>167 |
|                      | 2.8              | 488   | 9920                 |         |                  |          |              |             |            |
|                      | 3.2              | 436   | 9920                 | R<br>RF | 77 R37<br>77 R37 | DT<br>DT | 71D4<br>71D4 | 48<br>54    | 167<br>167 |
|                      | 3.7              | 373   | 9920                 |         |                  |          |              |             |            |
|                      | 4.2              | 327   | 9920                 | R<br>RF | 77 R37<br>77 R37 | DT<br>DT | 80K4<br>80K4 | 50<br>56    | 167<br>167 |
|                      | 4.7              | 289   | 9920                 |         |                  |          |              |             |            |
|                      | 5.2              | 260   | 9920                 |         |                  |          |              |             |            |
|                      | 0.08             | 17452 | 16900                | R<br>RF | 87 R57<br>87 R57 | DR<br>DR | 63S4<br>63S4 | 86<br>93    | 167<br>167 |
| 1550                 | 0.09             | 15310 | 16900                |         |                  |          |              |             |            |
|                      | 0.10             | 13813 | 16900                |         |                  |          |              |             |            |
|                      | 0.11             | 12025 | 16900                |         |                  |          |              |             |            |
|                      | 0.13             | 10549 | 16900                |         |                  |          |              |             |            |
|                      | 0.15             | 9244  | 16900                |         |                  |          |              |             |            |
|                      | 0.17             | 8109  | 16900                |         |                  |          |              |             |            |
|                      | 0.20             | 7038  | 16900                |         |                  |          |              |             |            |
|                      | 0.22             | 6174  | 16900                |         |                  |          |              |             |            |
|                      | 0.25             | 5449  | 16900                |         |                  |          |              |             |            |
|                      | 0.29             | 4831  | 16900                |         |                  |          |              |             |            |
|                      | 0.33             | 4206  | 16900                |         |                  |          |              |             |            |
|                      | 0.37             | 3744  | 16900                |         |                  |          |              |             |            |
|                      | 0.43             | 3233  | 16900                |         |                  |          |              |             |            |
|                      | 0.48             | 2873  | 16900                |         |                  |          |              |             |            |
|                      | 0.67             | 1961  | 16900                | R<br>RF | 87 R57<br>87 R57 | DR<br>DR | 63M4<br>63M4 | 86<br>93    | 167<br>167 |
|                      | 0.34             | 4020  | 16900                |         |                  |          |              |             |            |
|                      | 0.43             | 3182  | 16900                | R<br>RF | 87 R57<br>87 R57 | DR<br>DR | 63S4<br>63S4 | 85<br>92    | 167<br>167 |
|                      | 0.50             | 2770  | 16900                |         |                  |          |              |             |            |
|                      | 0.53             | 2595  | 16900                |         |                  |          |              |             |            |
|                      | 0.62             | 2129  | 16900                | R<br>RF | 87 R57<br>87 R57 | DR<br>DR | 63M4<br>63M4 | 85<br>92    | 167<br>167 |
|                      | 0.68             | 1930  | 16900                |         |                  |          |              |             |            |
|                      | 0.76             | 1733  | 16900                |         |                  |          |              |             |            |
|                      | 0.89             | 1489  | 16900                |         |                  |          |              |             |            |

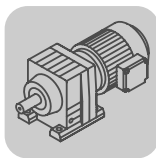


# R..DR/DT/DV R..R..D.. [Nm]

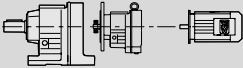
| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | $i$   | $F_{Ra}^{1)}$<br>[N] |  |        |    |      | $m$<br>[kg] |  |
|----------------------|------------------|-------|----------------------|------------------------------------------------------------------------------------|--------|----|------|-------------|-------------------------------------------------------------------------------------|
| 1550                 | 0.93             | 1395  | 16900                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 1.1              | 1232  | 16900                | R                                                                                  | 87 R57 | DR | 63L4 | 85          | 167                                                                                 |
|                      | 1.1              | 1145  | 16900                | RF                                                                                 | 87 R57 | DR | 63L4 | 93          | 167                                                                                 |
|                      | 1.2              | 1037  | 16900                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 1.7              | 802   | 16900                | R                                                                                  | 87 R57 | DT | 71D4 | 87          | 167                                                                                 |
|                      | 1.8              | 754   | 16900                | RF                                                                                 | 87 R57 | DT | 71D4 | 94          | 167                                                                                 |
|                      | 0.76             | 1737  | 16900                | R                                                                                  | 87 R57 | DR | 63M4 | 85          | 167                                                                                 |
|                      | 0.87             | 1524  | 16900                | RF                                                                                 | 87 R57 | DR | 63M4 | 92          | 167                                                                                 |
|                      | 1.0              | 1303  | 16900                | R                                                                                  | 87 R57 | DR | 63L4 | 86          | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 87 R57 | DR | 63L4 | 93          | 167                                                                                 |
|                      | 1.4              | 1008  | 16900                | R                                                                                  | 87 R57 | DT | 80K4 | 89          | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 87 R57 | DT | 80K4 | 97          | 167                                                                                 |
|                      | 1.6              | 885   | 16900                | R                                                                                  | 87 R57 | DT | 71D4 | 87          | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 87 R57 | DT | 71D4 | 95          | 167                                                                                 |
|                      | 2.0              | 685   | 16900                | R                                                                                  | 87 R57 | DT | 80K4 | 89          | 167                                                                                 |
|                      | 2.3              | 599   | 16900                | RF                                                                                 | 87 R57 | DT | 80K4 | 97          | 167                                                                                 |
|                      | 3.5              | 398   | 16900                | R                                                                                  | 87 R57 | DT | 80N4 | 90          | 167                                                                                 |
|                      | 3.9              | 352   | 16900                | RF                                                                                 | 87 R57 | DT | 80N4 | 98          | 167                                                                                 |
|                      | 4.6              | 305   | 16900                | R                                                                                  | 87 R57 | DT | 90S4 | 96          | 167                                                                                 |
|                      | 5.2              | 268   | 16900                | RF                                                                                 | 87 R57 | DT | 90S4 | 105         | 167                                                                                 |
|                      | 2.5              | 538   | 16900                | R                                                                                  | 87 R57 | DT | 80K4 | 88          | 167                                                                                 |
|                      | 2.9              | 472   | 16900                | RF                                                                                 | 87 R57 | DT | 80K4 | 95          | 167                                                                                 |
|                      | 3.5              | 400   | 16900                | R                                                                                  | 87 R57 | DT | 80N4 | 89          | 167                                                                                 |
|                      | 3.8              | 361   | 16900                | RF                                                                                 | 87 R57 | DT | 80N4 | 96          | 167                                                                                 |
|                      | 4.7              | 300   | 16900                | R                                                                                  | 87 R57 | DT | 90S4 | 94          | 167                                                                                 |
|                      | 5.5              | 256   | 16900                | RF                                                                                 | 87 R57 | DT | 90S4 | 100         | 167                                                                                 |
| 3000                 | 0.06             | 21769 | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.07             | 19332 | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.08             | 17230 | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.09             | 14999 | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.10             | 13320 | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.12             | 11156 | 19800                | R                                                                                  | 97 R57 | DR | 63S4 | 130         | 167                                                                                 |
|                      | 0.14             | 10030 | 19800                | RF                                                                                 | 97 R57 | DR | 63S4 | 145         | 167                                                                                 |
|                      | 0.16             | 8706  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.18             | 7692  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.21             | 6708  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.23             | 5931  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.27             | 5161  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.33             | 4004  | 19800                | R                                                                                  | 97 R57 | DR | 63M4 | 130         | 167                                                                                 |
|                      | 0.38             | 3481  | 19800                | RF                                                                                 | 97 R57 | DR | 63M4 | 145         | 167                                                                                 |
|                      | 0.29             | 4678  | 19800                | R                                                                                  | 97 R57 | DR | 63S4 | 125         | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 97 R57 | DR | 63S4 | 145         | 167                                                                                 |
|                      | 0.31             | 4309  | 19800                | R                                                                                  | 97 R57 | DR | 63M4 | 125         | 167                                                                                 |
|                      | 0.36             | 3702  | 19800                | RF                                                                                 | 97 R57 | DR | 63M4 | 145         | 167                                                                                 |
|                      | 0.44             | 3019  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.49             | 2668  | 19800                | R                                                                                  | 97 R57 | DR | 63L4 | 125         | 167                                                                                 |
|                      | 0.58             | 2245  | 19800                | RF                                                                                 | 97 R57 | DR | 63L4 | 145         | 167                                                                                 |
|                      | 0.64             | 2016  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 0.80             | 1733  | 19800                | R                                                                                  | 97 R57 | DT | 71D4 | 130         | 167                                                                                 |
|                      | 0.85             | 1623  | 19800                | RF                                                                                 | 97 R57 | DT | 71D4 | 145         | 167                                                                                 |
|                      | 0.96             | 1434  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 1.1              | 1207  | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 1.2              | 1084  | 19800                | R                                                                                  | 97 R57 | DT | 80K4 | 130         | 167                                                                                 |
|                      | 1.5              | 934   | 19800                | RF                                                                                 | 97 R57 | DT | 80K4 | 145         | 167                                                                                 |
|                      | 1.6              | 878   | 19800                |                                                                                    |        |    |      |             |                                                                                     |
|                      | 1.8              | 755   | 19800                | R                                                                                  | 97 R57 | DT | 80N4 | 130         | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 97 R57 | DT | 80N4 | 150         | 167                                                                                 |

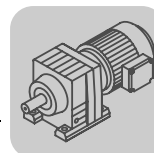


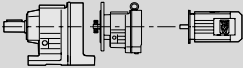
| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | $i$   | $F_{Ra}^{1)}$<br>[N] |    |         |    |       | $m$<br>[kg] |     |
|----------------------|------------------|-------|----------------------|----|---------|----|-------|-------------|-----|
| 3000                 | 0.76             | 1823  | 19800                | R  | 97 R57  | DT | 71D4  | 130         | 167 |
|                      | 0.87             | 1583  | 19800                | RF | 97 R57  | DT | 71D4  | 145         | 167 |
|                      | 0.99             | 1396  | 19800                |    |         |    |       |             |     |
|                      | 1.1              | 1228  | 19800                | R  | 97 R57  | DT | 80K4  | 130         | 167 |
|                      | 1.3              | 1069  | 19800                | RF | 97 R57  | DT | 80K4  | 150         | 167 |
|                      | 1.4              | 938   | 19800                |    |         |    |       |             |     |
|                      | 1.7              | 824   | 19800                | R  | 97 R57  | DT | 80N4  | 135         | 167 |
|                      | 1.9              | 737   | 19800                | RF | 97 R57  | DT | 80N4  | 150         | 167 |
|                      | 2.2              | 632   | 19800                | R  | 97 R57  | DT | 90S4  | 140         | 167 |
|                      | 2.5              | 560   | 19800                | RF | 97 R57  | DT | 90S4  | 155         | 167 |
|                      | 2.9              | 484   | 19800                |    |         |    |       |             |     |
|                      | 3.3              | 431   | 19800                | R  | 97 R57  | DT | 90L4  | 140         | 167 |
|                      | 3.7              | 379   | 19800                | RF | 97 R57  | DT | 90L4  | 155         | 167 |
|                      | 4.2              | 336   | 19800                |    |         |    |       |             |     |
|                      | 4.8              | 296   | 19800                | R  | 97 R57  | DV | 100M4 | 145         | 167 |
|                      | 5.7              | 249   | 19800                | RF | 97 R57  | DV | 100M4 | 165         | 167 |
|                      | 6.0              | 234   | 19800                |    |         |    |       |             |     |
|                      | 2.2              | 625   | 19800                | R  | 97 R57  | DT | 90S4  | 135         | 167 |
|                      | 2.6              | 549   | 19800                | RF | 97 R57  | DT | 90S4  | 150         | 167 |
| 4300                 | 5.2              | 270   | 19800                | R  | 97 R57  | DV | 100M4 | 145         | 167 |
|                      | 6.2              | 227   | 19800                | RF | 97 R57  | DV | 100M4 | 160         | 167 |
|                      | 0.07             | 20018 | 29500                |    |         |    |       |             |     |
|                      | 0.08             | 17080 | 29500                |    |         |    |       |             |     |
|                      | 0.09             | 14936 | 29500                |    |         |    |       |             |     |
|                      | 0.11             | 12829 | 29500                | R  | 107 R77 | DR | 63S4  | 200         | 167 |
|                      | 0.12             | 11256 | 29500                | RF | 107 R77 | DR | 63S4  | 210         | 167 |
|                      | 0.14             | 9547  | 29500                |    |         |    |       |             |     |
|                      | 0.16             | 8618  | 29500                |    |         |    |       |             |     |
|                      | 0.18             | 7583  | 29500                |    |         |    |       |             |     |
|                      | 0.20             | 6743  | 29500                |    |         |    |       |             |     |
|                      | 0.22             | 5914  | 29500                | R  | 107 R77 | DR | 63M4  | 200         | 167 |
|                      | 0.26             | 5168  | 29500                | RF | 107 R77 | DR | 63M4  | 210         | 167 |
|                      | 0.30             | 4435  | 29500                |    |         |    |       |             |     |
|                      | 0.33             | 3896  | 29500                | R  | 107 R77 | DR | 63L4  | 205         | 167 |
|                      | 0.43             | 3039  | 29500                | RF | 107 R77 | DR | 63L4  | 210         | 167 |
|                      | 0.34             | 3918  | 29500                | R  | 107 R77 | DR | 63M4  | 195         | 167 |
|                      |                  |       |                      | RF | 107 R77 | DR | 63M4  | 200         | 167 |
|                      | 0.39             | 3343  | 29500                | R  | 107 R77 | DR | 63L4  | 195         | 167 |
|                      | 0.43             | 3034  | 29500                | RF | 107 R77 | DR | 63L4  | 200         | 167 |
|                      | 0.52             | 2653  | 29500                | R  | 107 R77 | DT | 71D4  | 195         | 167 |
|                      | 0.61             | 2280  | 29500                | RF | 107 R77 | DT | 71D4  | 205         | 167 |
|                      | 0.67             | 2067  | 29500                |    |         |    |       |             |     |
|                      | 0.80             | 1693  | 29500                | R  | 107 R77 | DT | 80K4  | 200         | 167 |
|                      | 0.88             | 1550  | 29500                | RF | 107 R77 | DT | 80K4  | 205         | 167 |
|                      | 0.97             | 1407  | 29500                |    |         |    |       |             |     |
|                      | 1.1              | 1209  | 29500                | R  | 107 R77 | DT | 80N4  | 200         | 167 |
|                      | 1.3              | 1055  | 29500                | RF | 107 R77 | DT | 80N4  | 205         | 167 |
|                      | 1.5              | 919   | 29500                | R  | 107 R77 | DT | 90S4  | 205         | 167 |
|                      | 1.7              | 815   | 29500                | RF | 107 R77 | DT | 90S4  | 210         | 167 |
|                      | 1.9              | 717   | 29500                |    |         |    |       |             |     |
|                      | 2.2              | 626   | 29500                | R  | 107 R77 | DT | 90L4  | 205         | 167 |
|                      | 2.7              | 528   | 29500                | RF | 107 R77 | DT | 90L4  | 215         | 167 |
|                      | 0.69             | 1987  | 29500                | R  | 107 R77 | DT | 71D4  | 200         | 167 |
|                      |                  |       |                      | RF | 107 R77 | DT | 71D4  | 210         | 167 |

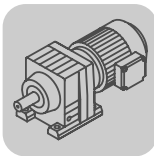


# R..DR/DT/DV R..R..D.. [Nm]

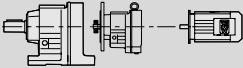
| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | $i$   | $F_{Ra}^{1)}$<br>[N] |  |                                  |                        |                              | $m$<br>[kg] |  |
|----------------------|------------------|-------|----------------------|------------------------------------------------------------------------------------|----------------------------------|------------------------|------------------------------|-------------|-------------------------------------------------------------------------------------|
| <b>4300</b>          | <b>0.74</b>      | 1827  | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b>   | 205         | 167                                                                                 |
|                      | <b>0.85</b>      | 1599  | 29500                |                                                                                    |                                  |                        |                              | 210         | 167                                                                                 |
|                      | <b>0.97</b>      | 1400  | 29500                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>1.1</b>       | 1226  | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>80N4</b><br><b>80N4</b>   | 205         | 167                                                                                 |
|                      | <b>1.2</b>       | 1104  | 29500                |                                                                                    |                                  |                        |                              | 210         | 167                                                                                 |
|                      | <b>1.5</b>       | 939   | 29500                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>1.7</b>       | 822   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 210         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              | 215         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>2.3</b>       | 614   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>90L4</b><br><b>90L4</b>   | 210         | 167                                                                                 |
|                      | <b>2.6</b>       | 544   | 29500                |                                                                                    |                                  |                        |                              | 220         | 167                                                                                 |
|                      | <b>2.9</b>       | 492   | 29500                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>3.4</b>       | 417   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>100M4</b><br><b>100M4</b> | 220         | 167                                                                                 |
|                      | <b>3.8</b>       | 369   | 29500                |                                                                                    |                                  |                        |                              | 225         | 167                                                                                 |
|                      | <b>4.4</b>       | 323   | 29500                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>4.9</b>       | 285   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>100L4</b><br><b>100L4</b> | 225         | 167                                                                                 |
|                      | <b>5.5</b>       | 253   | 29500                |                                                                                    |                                  |                        |                              | 230         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>6.6</b>       | 214   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b> | 230         | 167                                                                                 |
|                      | <b>7.6</b>       | 187   | 29500                |                                                                                    |                                  |                        |                              | 235         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>3.0</b>       | 469   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DT</b><br><b>DT</b> | <b>90L4</b><br><b>90L4</b>   | 205         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              | 210         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>3.3</b>       | 426   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>100M4</b><br><b>100M4</b> | 215         | 167                                                                                 |
|                      | <b>3.7</b>       | 377   | 29500                |                                                                                    |                                  |                        |                              | 220         | 167                                                                                 |
|                      | <b>4.4</b>       | 325   | 29500                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>4.9</b>       | 284   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>100L4</b><br><b>100L4</b> | 215         | 167                                                                                 |
|                      | <b>5.5</b>       | 256   | 29500                |                                                                                    |                                  |                        |                              | 225         | 167                                                                                 |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>6.5</b>       | 220   | 29500                | <b>R</b><br><b>RF</b>                                                              | <b>107 R77</b><br><b>107 R77</b> | <b>DV</b><br><b>DV</b> | <b>112M4</b><br><b>112M4</b> | 225         | 167                                                                                 |
|                      | <b>7.3</b>       | 193   | 29500                |                                                                                    |                                  |                        |                              | 230         | 167                                                                                 |
|                      | <b>8.2</b>       | 172   | 29500                |                                                                                    |                                  |                        |                              |             |                                                                                     |
| <b>8000</b>          | <b>0.06</b>      | 22203 | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DR</b><br><b>DR</b> | <b>63S4</b><br><b>63S4</b>   | 290         | 167                                                                                 |
|                      | <b>0.07</b>      | 18945 | 53400                |                                                                                    |                                  |                        |                              | 310         | 167                                                                                 |
|                      | <b>0.08</b>      | 16566 | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.09</b>      | 14777 | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.11</b>      | 12921 | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.11</b>      | 11712 | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DR</b><br><b>DR</b> | <b>63M4</b><br><b>63M4</b>   | 290         | 167                                                                                 |
|                      | <b>0.12</b>      | 10573 | 53400                |                                                                                    |                                  |                        |                              | 310         | 167                                                                                 |
|                      | <b>0.15</b>      | 8784  | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.17</b>      | 7479  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DR</b><br><b>DR</b> | <b>63L4</b><br><b>63L4</b>   | 290         | 167                                                                                 |
|                      | <b>0.20</b>      | 6559  | 53400                |                                                                                    |                                  |                        |                              | 310         | 167                                                                                 |
|                      | <b>0.22</b>      | 5834  | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.27</b>      | 5116  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>71D4</b><br><b>71D4</b>   | 290         | 167                                                                                 |
|                      | <b>0.31</b>      | 4464  | 53400                |                                                                                    |                                  |                        |                              | 315         | 167                                                                                 |
|                      | <b>0.35</b>      | 3928  | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.39</b>      | 3454  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b>   | 290         | 167                                                                                 |
|                      | <b>0.45</b>      | 2993  | 53400                |                                                                                    |                                  |                        |                              | 315         | 167                                                                                 |
|                      | <b>0.29</b>      | 4709  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>71D4</b><br><b>71D4</b>   | 280         | 167                                                                                 |
|                      | <b>0.34</b>      | 4018  | 53400                |                                                                                    |                                  |                        |                              | 305         | 167                                                                                 |
|                      | <b>0.39</b>      | 3514  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>80K4</b><br><b>80K4</b>   | 280         | 167                                                                                 |
|                      | <b>0.41</b>      | 3338  | 53400                |                                                                                    |                                  |                        |                              | 305         | 167                                                                                 |
|                      | <b>0.46</b>      | 2929  | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.55</b>      | 2484  | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      |                  |       |                      |                                                                                    |                                  |                        |                              |             |                                                                                     |
|                      | <b>0.62</b>      | 2242  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>80N4</b><br><b>80N4</b>   | 285         | 167                                                                                 |
|                      | <b>0.74</b>      | 1863  | 53400                |                                                                                    |                                  |                        |                              | 305         | 167                                                                                 |
|                      | <b>0.88</b>      | 1586  | 53400                | <b>R</b><br><b>RF</b>                                                              | <b>137 R77</b><br><b>137 R77</b> | <b>DT</b><br><b>DT</b> | <b>90S4</b><br><b>90S4</b>   | 290         | 167                                                                                 |
|                      | <b>1.0</b>       | 1391  | 53400                |                                                                                    |                                  |                        |                              | 310         | 167                                                                                 |
|                      | <b>1.1</b>       | 1256  | 53400                |                                                                                    |                                  |                        |                              |             |                                                                                     |

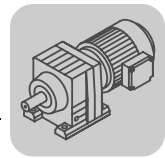


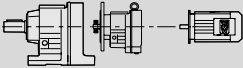
| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | i     | $F_{Ra}^{1)}$<br>[N] |  |         |    |       | m<br>[kg] |  |
|----------------------|------------------|-------|----------------------|------------------------------------------------------------------------------------|---------|----|-------|-----------|-------------------------------------------------------------------------------------|
| 8000                 | 1.3              | 1105  | 53400                | R                                                                                  | 137 R77 | DT | 90L4  | 290       | 167                                                                                 |
|                      | 1.4              | 1043  | 53400                | RF                                                                                 | 137 R77 | DT | 90L4  | 315       | 167                                                                                 |
|                      | 1.6              | 888   | 53400                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 2.0              | 699   | 53400                | R                                                                                  | 137 R77 | DV | 100M4 | 295       | 167                                                                                 |
|                      | 2.3              | 609   | 53400                | RF                                                                                 | 137 R77 | DV | 100M4 | 320       | 167                                                                                 |
|                      | 0.51             | 2658  | 53400                | R                                                                                  | 137 R77 | DT | 80K4  | 290       | 167                                                                                 |
|                      | 0.56             | 2412  | 53400                | RF                                                                                 | 137 R77 | DT | 80K4  | 315       | 167                                                                                 |
|                      | 0.67             | 2073  | 53400                | R                                                                                  | 137 R77 | DT | 80N4  | 295       | 167                                                                                 |
|                      | 0.75             | 1839  | 53400                | RF                                                                                 | 137 R77 | DT | 80N4  | 315       | 167                                                                                 |
|                      | 0.88             | 1598  | 53400                | R                                                                                  | 137 R77 | DT | 90S4  | 300       | 167                                                                                 |
|                      | 1.0              | 1397  | 53400                | RF                                                                                 | 137 R77 | DT | 90S4  | 320       | 167                                                                                 |
|                      | 1.1              | 1226  | 53400                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 1.3              | 1090  | 53400                | R                                                                                  | 137 R77 | DT | 90L4  | 300       | 167                                                                                 |
|                      | 1.5              | 951   | 53400                | RF                                                                                 | 137 R77 | DT | 90L4  | 320       | 167                                                                                 |
|                      | 1.7              | 831   | 53400                | R                                                                                  | 137 R77 | DV | 100M4 | 305       | 167                                                                                 |
|                      | 1.9              | 730   | 53400                | RF                                                                                 | 137 R77 | DV | 100M4 | 330       | 167                                                                                 |
|                      | 2.2              | 629   | 53400                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 2.5              | 560   | 53400                | R                                                                                  | 137 R77 | DV | 100L4 | 310       | 167                                                                                 |
|                      | 2.9              | 490   | 53400                | RF                                                                                 | 137 R77 | DV | 100L4 | 335       | 167                                                                                 |
|                      | 3.3              | 428   | 53400                | R                                                                                  | 137 R77 | DV | 112M4 | 315       | 167                                                                                 |
|                      | 3.7              | 381   | 53400                | RF                                                                                 | 137 R77 | DV | 112M4 | 340       | 167                                                                                 |
|                      | 4.4              | 323   | 53400                | R                                                                                  | 137 R77 | DV | 132S4 | 325       | 167                                                                                 |
|                      | 4.9              | 291   | 53400                | RF                                                                                 | 137 R77 | DV | 132S4 | 345       | 167                                                                                 |
|                      | 5.6              | 255   | 53400                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 2.5              | 564   | 53400                | R                                                                                  | 137 R77 | DV | 100L4 | 300       | 167                                                                                 |
|                      | 2.7              | 517   | 53400                | RF                                                                                 | 137 R77 | DV | 100L4 | 325       | 167                                                                                 |
|                      | 3.1              | 453   | 53400                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 3.8              | 376   | 53400                | R                                                                                  | 137 R77 | DV | 112M4 | 305       | 167                                                                                 |
|                      | 4.2              | 339   | 53400                | RF                                                                                 | 137 R77 | DV | 112M4 | 330       | 167                                                                                 |
|                      | 4.8              | 297   | 53400                | R                                                                                  | 137 R77 | DV | 132S4 | 315       | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 137 R77 | DV | 132S4 | 335       | 167                                                                                 |
| 13000                | 0.06             | 23401 | 62700                | R                                                                                  | 147 R77 | DR | 63S4  | 420       | 167                                                                                 |
|                      | 0.06             | 21342 | 62700                | RF                                                                                 | 147 R77 | DR | 63S4  | 430       | 167                                                                                 |
|                      | 0.07             | 18210 | 62700                | R                                                                                  | 147 R77 | DR | 63M4  | 420       | 167                                                                                 |
|                      | 0.08             | 15923 | 62700                | RF                                                                                 | 147 R77 | DR | 63M4  | 430       | 167                                                                                 |
|                      | 0.09             | 14075 | 62700                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 0.11             | 12344 | 62700                | R                                                                                  | 147 R77 | DR | 63L4  | 420       | 167                                                                                 |
|                      | 0.12             | 11143 | 62700                | RF                                                                                 | 147 R77 | DR | 63L4  | 430       | 167                                                                                 |
|                      | 0.13             | 9743  | 62700                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 0.16             | 8443  | 62700                | R                                                                                  | 147 R77 | DT | 71D4  | 420       | 167                                                                                 |
|                      | 0.19             | 7307  | 62700                | RF                                                                                 | 147 R77 | DT | 71D4  | 430       | 167                                                                                 |
|                      | 0.21             | 6447  | 62700                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 0.24             | 5568  | 62700                | R                                                                                  | 147 R77 | DT | 80K4  | 425       | 167                                                                                 |
|                      | 0.28             | 4926  | 62700                | RF                                                                                 | 147 R77 | DT | 80K4  | 430       | 167                                                                                 |
|                      | 0.31             | 4325  | 62700                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 0.37             | 3754  | 62700                | R                                                                                  | 147 R77 | DT | 80N4  | 425       | 167                                                                                 |
|                      | 0.42             | 3302  | 62700                | RF                                                                                 | 147 R77 | DT | 80N4  | 435       | 167                                                                                 |
|                      | 0.48             | 2898  | 62700                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 0.55             | 2555  | 62700                | R                                                                                  | 147 R77 | DT | 90S4  | 430       | 167                                                                                 |
|                      | 0.63             | 2211  | 62700                | RF                                                                                 | 147 R77 | DT | 90S4  | 440       | 167                                                                                 |
|                      | 0.72             | 1951  | 62700                |                                                                                    |         |    |       |           |                                                                                     |
|                      | 0.83             | 1705  | 62700                | R                                                                                  | 147 R77 | DT | 90L4  | 430       | 167                                                                                 |
|                      | 0.92             | 1536  | 62700                | RF                                                                                 | 147 R77 | DT | 90L4  | 440       | 167                                                                                 |

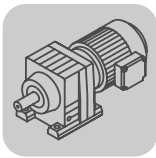
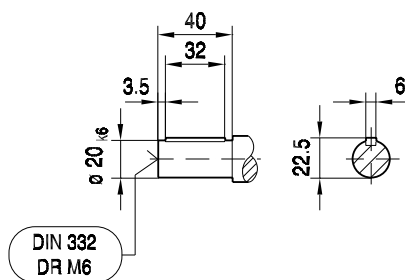
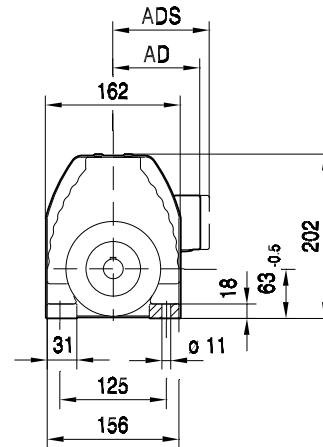
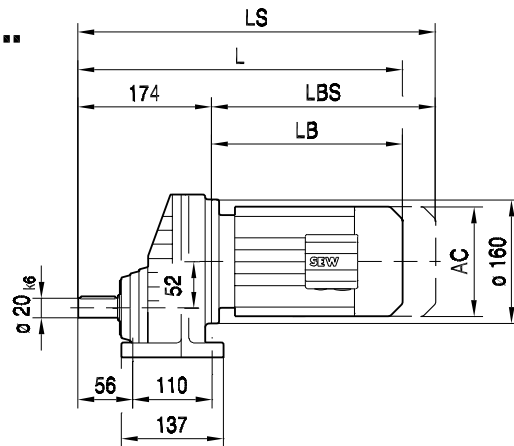


# R..DR/DT/DV R..R..D.. [Nm]

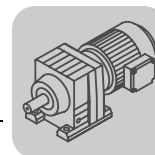
| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | i     | $F_{Ra}^{1)}$<br>[N] |  |         |    |        | m<br>[kg] |  |
|----------------------|------------------|-------|----------------------|------------------------------------------------------------------------------------|---------|----|--------|-----------|-------------------------------------------------------------------------------------|
| <b>13000</b>         | 1.1              | 1329  | 62700                |                                                                                    |         |    |        |           |                                                                                     |
|                      | 1.2              | 1166  | 62700                | R                                                                                  | 147 R77 | DV | 100M4  | 435       | 167                                                                                 |
|                      | 1.4              | 1029  | 62700                | RF                                                                                 | 147 R77 | DV | 100M4  | 445       | 167                                                                                 |
|                      | 1.6              | 889   | 62700                | R                                                                                  | 147 R77 | DV | 100L4  | 440       | 167                                                                                 |
|                      | 1.8              | 784   | 62700                | RF                                                                                 | 147 R77 | DV | 100L4  | 450       | 167                                                                                 |
|                      | 2.0              | 695   | 62700                | R                                                                                  | 147 R77 | DV | 112M4  | 445       | 167                                                                                 |
|                      | 2.3              | 619   | 62700                | RF                                                                                 | 147 R77 | DV | 112M4  | 455       | 167                                                                                 |
|                      | 2.5              | 558   | 62700                |                                                                                    |         |    |        |           |                                                                                     |
|                      | 2.9              | 489   | 62700                | R                                                                                  | 147 R77 | DV | 132S4  | 455       | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 147 R77 | DV | 132S4  | 465       | 167                                                                                 |
|                      | 2.7              | 533   | 62700                | R                                                                                  | 147 R87 | DV | 112M4  | 470       | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 147 R87 | DV | 112M4  | 475       | 167                                                                                 |
|                      | 3.1              | 462   | 62700                | R                                                                                  | 147 R87 | DV | 132S4  | 475       | 167                                                                                 |
|                      | 3.4              | 426   | 62700                | RF                                                                                 | 147 R87 | DV | 132S4  | 480       | 167                                                                                 |
|                      | 3.9              | 368   | 62700                | R                                                                                  | 147 R87 | DV | 132M4  | 495       | 167                                                                                 |
|                      | 4.4              | 326   | 62700                | RF                                                                                 | 147 R87 | DV | 132M4  | 500       | 167                                                                                 |
|                      | 5.1              | 280   | 62700                | R                                                                                  | 147 R87 | DV | 132ML4 | 500       | 167                                                                                 |
|                      | 5.8              | 247   | 62700                | RF                                                                                 | 147 R87 | DV | 132ML4 | 510       | 167                                                                                 |
|                      | 6.7              | 214   | 62700                | R                                                                                  | 147 R87 | DV | 160M4  | 510       | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 147 R87 | DV | 160M4  | 520       | 167                                                                                 |
| <b>18000</b>         | 0.05             | 27001 | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.06             | 22482 | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.07             | 20002 | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.08             | 17361 | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.09             | 15446 | 120000               | R                                                                                  | 167 R97 | DT | 80K4   | 750       | 167                                                                                 |
|                      | 0.10             | 14051 | 120000               | RF                                                                                 | 167 R97 | DT | 80K4   | 760       | 167                                                                                 |
|                      | 0.12             | 11812 | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.13             | 10509 | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.14             | 9631  | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.18             | 7749  | 120000               | R                                                                                  | 167 R97 | DT | 90S4   | 760       | 167                                                                                 |
|                      | 0.20             | 6894  | 120000               | RF                                                                                 | 167 R97 | DT | 90S4   | 770       | 167                                                                                 |
|                      | 0.22             | 6077  | 120000               | R                                                                                  | 167 R97 | DT | 80K4   | 750       | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 167 R97 | DT | 80K4   | 760       | 167                                                                                 |
|                      | 0.26             | 5407  | 120000               | R                                                                                  | 167 R97 | DT | 80N4   | 750       | 167                                                                                 |
|                      | 0.30             | 4650  | 120000               | RF                                                                                 | 167 R97 | DT | 80N4   | 760       | 167                                                                                 |
|                      | 0.33             | 4129  | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.38             | 3692  | 120000               | R                                                                                  | 167 R97 | DT | 90S4   | 760       | 167                                                                                 |
|                      |                  |       |                      | RF                                                                                 | 167 R97 | DT | 90S4   | 770       | 167                                                                                 |
|                      | 0.53             | 2657  | 120000               | R                                                                                  | 167 R97 | DT | 90L4   | 760       | 167                                                                                 |
|                      | 0.60             | 2333  | 120000               | RF                                                                                 | 167 R97 | DT | 90L4   | 760       | 167                                                                                 |
|                      | 0.68             | 2085  | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 0.75             | 1877  | 120000               | R                                                                                  | 167 R97 | DV | 100M4  | 770       | 167                                                                                 |
|                      | 0.84             | 1670  | 120000               | RF                                                                                 | 167 R97 | DV | 100M4  | 770       | 167                                                                                 |
|                      | 0.98             | 1438  | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 1.1              | 1279  | 120000               | R                                                                                  | 167 R97 | DV | 100L4  | 770       | 167                                                                                 |
|                      | 1.2              | 1123  | 120000               | RF                                                                                 | 167 R97 | DV | 100L4  | 780       | 167                                                                                 |
|                      | 1.4              | 999   | 120000               |                                                                                    |         |    |        |           |                                                                                     |
|                      | 1.7              | 861   | 120000               | R                                                                                  | 167 R97 | DV | 112M4  | 780       | 167                                                                                 |
|                      | 1.9              | 760   | 120000               | RF                                                                                 | 167 R97 | DV | 112M4  | 780       | 167                                                                                 |
|                      | 2.2              | 656   | 120000               | R                                                                                  | 167 R97 | DV | 132S4  | 780       | 167                                                                                 |
|                      | 2.5              | 579   | 120000               | RF                                                                                 | 167 R97 | DV | 132S4  | 790       | 167                                                                                 |
|                      | 2.8              | 503   | 120000               | R                                                                                  | 167 R97 | DV | 132M4  | 800       | 167                                                                                 |
|                      | 3.3              | 432   | 120000               | RF                                                                                 | 167 R97 | DV | 132M4  | 810       | 167                                                                                 |
|                      | 3.8              | 376   | 120000               | R                                                                                  | 167 R97 | DV | 132ML4 | 810       | 167                                                                                 |
|                      | 4.3              | 335   | 120000               | RF                                                                                 | 167 R97 | DV | 132ML4 | 820       | 167                                                                                 |



| $M_{a \max}$<br>[Nm] | $n_a$<br>[1/min] | $i$ | $F_{Ra}^{1)}$<br>[N] |  |          |    |       | $m$<br>[kg] |  |
|----------------------|------------------|-----|----------------------|------------------------------------------------------------------------------------|----------|----|-------|-------------|-------------------------------------------------------------------------------------|
| 18000                | 4.8              | 303 | 120000               | R                                                                                  | 167 R97  | DV | 160M4 | 820         | 167                                                                                 |
|                      | 5.2              | 279 | 120000               | RF                                                                                 | 167 R97  | DV | 160M4 | 820         | 167                                                                                 |
|                      | 4.9              | 295 | 120000               | R                                                                                  | 167 R107 | DV | 160M4 | 860         | 167                                                                                 |
|                      | 5.3              | 270 | 120000               | RF                                                                                 | 167 R107 | DV | 160M4 | 870         | 167                                                                                 |
|                      | 6.4              | 229 | 120000               | R                                                                                  | 167 R107 | DV | 160L4 | 900         | 167                                                                                 |
|                      | 7.3              | 200 | 120000               | RF                                                                                 | 167 R107 | DV | 160L4 | 910         | 167                                                                                 |
|                      | 5.0              | 291 | 120000               | R                                                                                  | 167 R107 | DV | 160M4 | 860         | 167                                                                                 |
|                      |                  |     |                      | RF                                                                                 | 167 R107 | DV | 160M4 | 860         | 167                                                                                 |
|                      | 5.5              | 264 | 120000               | R                                                                                  | 167 R107 | DV | 160L4 | 900         | 167                                                                                 |
|                      | 6.4              | 227 | 120000               |                                                                                    |          |    |       |             |                                                                                     |
|                      | 7.4              | 198 | 120000               | RF                                                                                 | 167 R107 | DV | 160L4 | 900         | 167                                                                                 |
|                      |                  |     |                      |                                                                                    |          |    |       |             |                                                                                     |

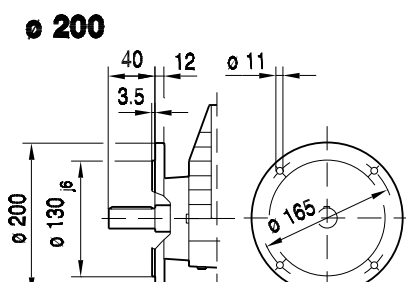
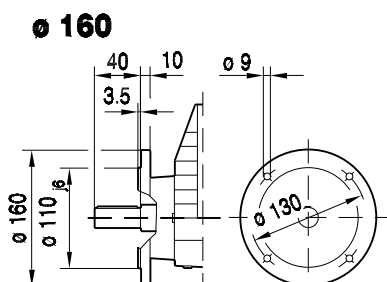
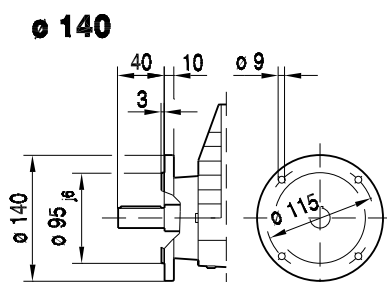
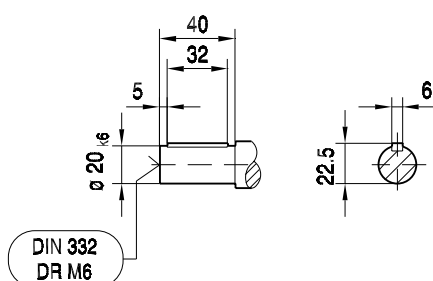
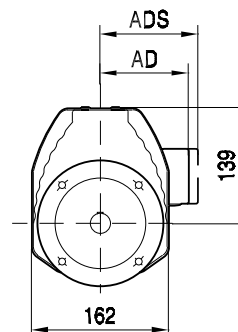
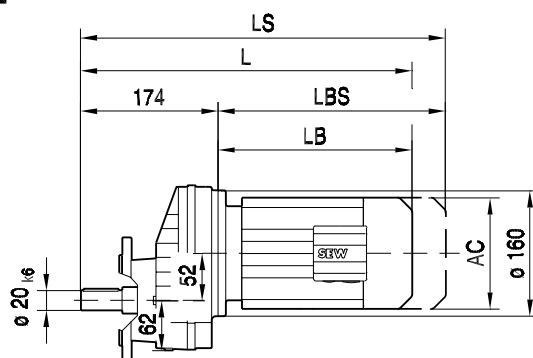

**3.5 R.. [mm]**
**04 027 02 00**
**RX57..**


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    |  |  |  |
| L      | 359    | 373   | 423    | 443    | 493    | 523    | 528    | 576    |  |  |  |
| LS     | 414    | 437   | 487    | 528    | 578    | 608    | 608    | 656    |  |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    |  |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    |  |  |  |

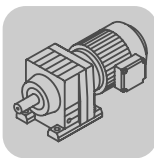
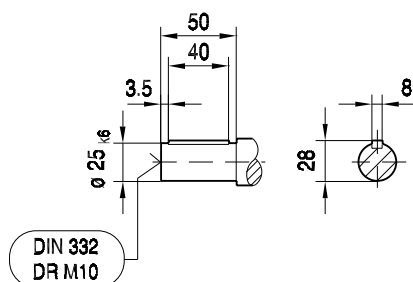
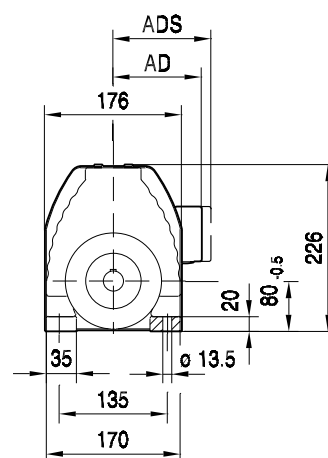
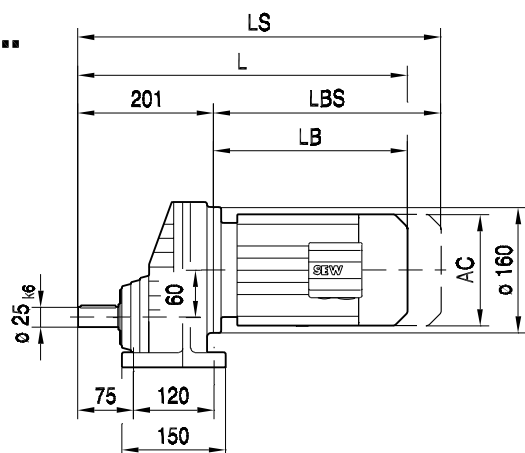


04 033 02 00

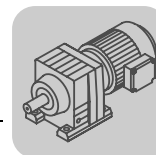
# RXF57..



| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    |  |  |  |
| L      | 359    | 373   | 423    | 443    | 493    | 523    | 528    | 576    |  |  |  |
| LS     | 414    | 437   | 487    | 528    | 578    | 608    | 608    | 656    |  |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    |  |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    |  |  |  |

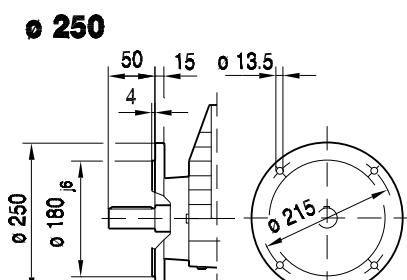
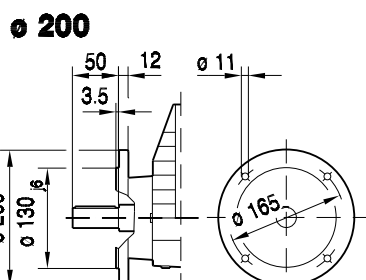
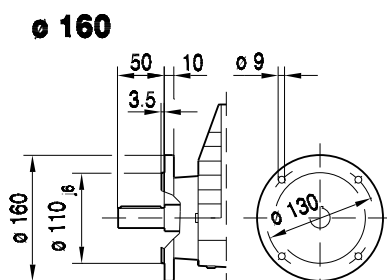
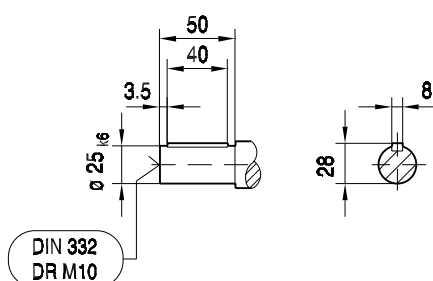
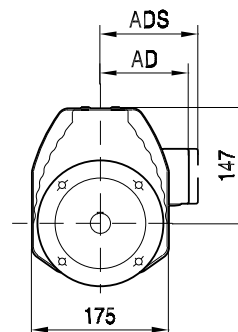
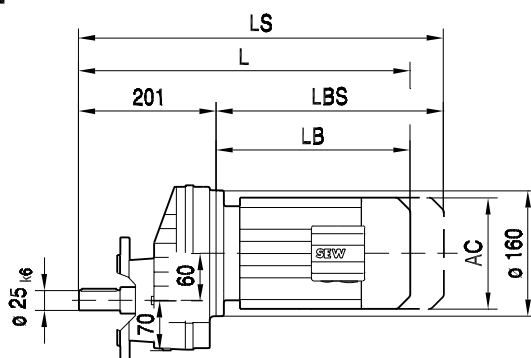
**RX67..**

| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 386    | 400   | 450    | 470    | 520    | 550    | 555    | 603    | 625    |  |  |
| LS     | 441    | 464   | 514    | 555    | 605    | 635    | 635    | 683    | 737    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |



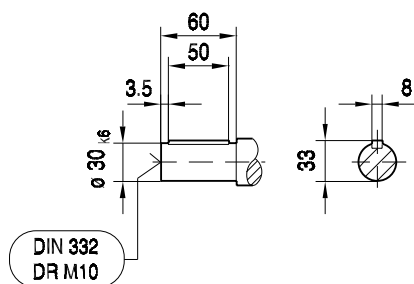
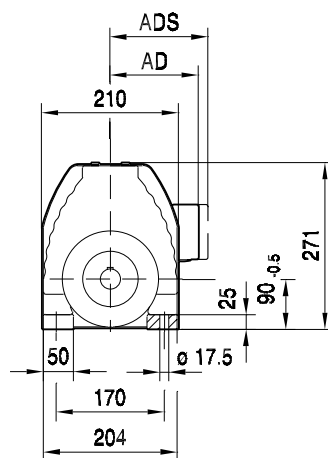
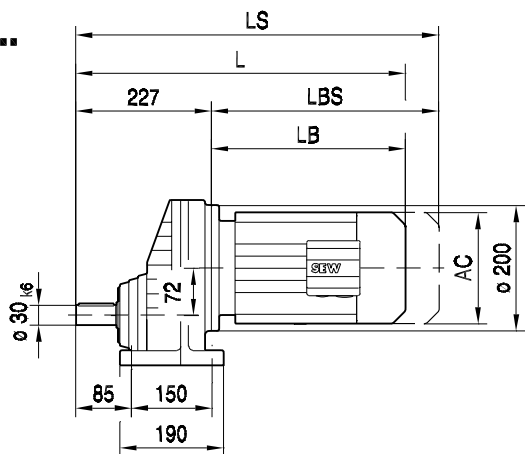
04 034 02 00

# RXF67..

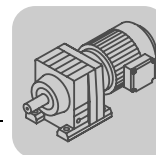


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 386    | 400   | 450    | 470    | 520    | 550    | 555    | 603    | 625    |  |  |
| LS     | 441    | 464   | 514    | 555    | 605    | 635    | 635    | 683    | 737    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |

## RX77..

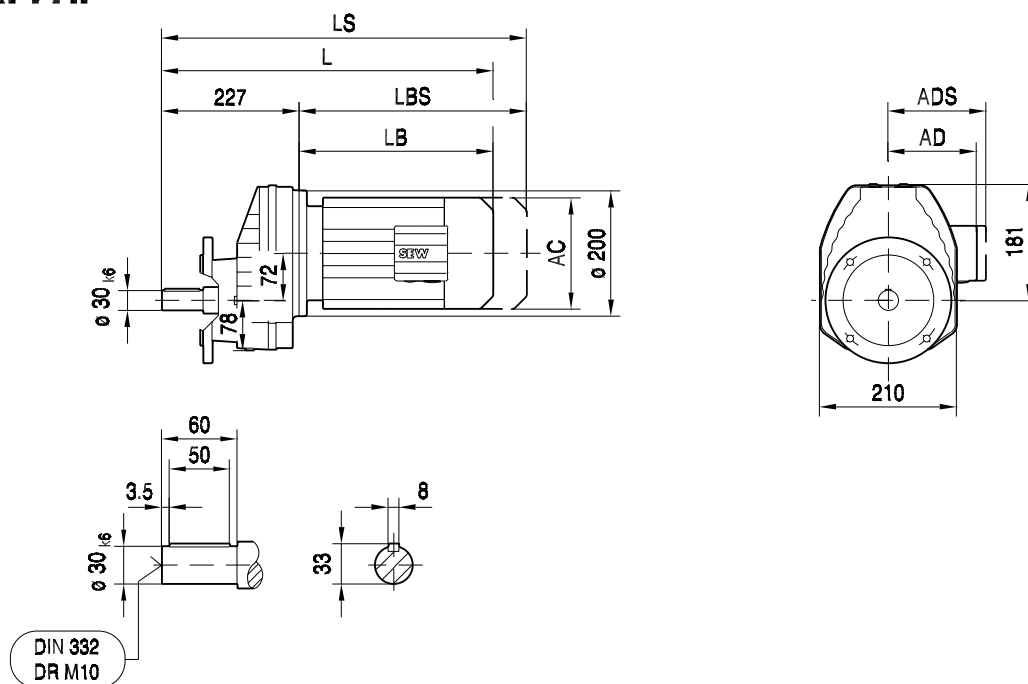


| (⇒  11) | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M |  |  |  |
|--------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|---------|--------|--|--|--|
| <b>AC</b>                                                                                  | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    |  |  |  |
| <b>AD</b>                                                                                  | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    |  |  |  |
| <b>ADS</b>                                                                                 | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    |  |  |  |
| <b>L</b>                                                                                   | 488    | 538    | 568    | 572    | 617    | 639    | 699     | 699    |  |  |  |
| <b>LS</b>                                                                                  | 573    | 623    | 653    | 652    | 697    | 751    | 811     | 811    |  |  |  |
| <b>LB</b>                                                                                  | 261    | 311    | 341    | 345    | 390    | 412    | 472     | 472    |  |  |  |
| <b>LBS</b>                                                                                 | 346    | 396    | 426    | 425    | 470    | 524    | 584     | 584    |  |  |  |

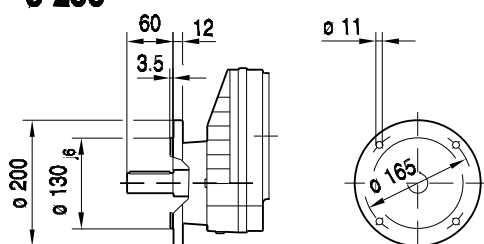


04 035 03 00

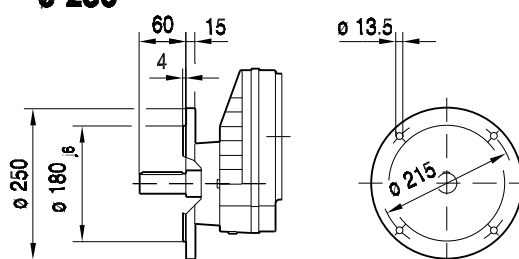
# RXF77..



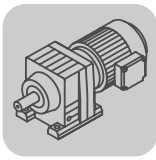
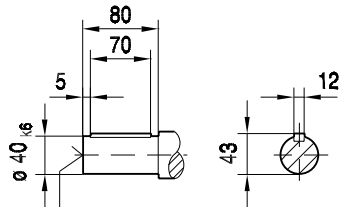
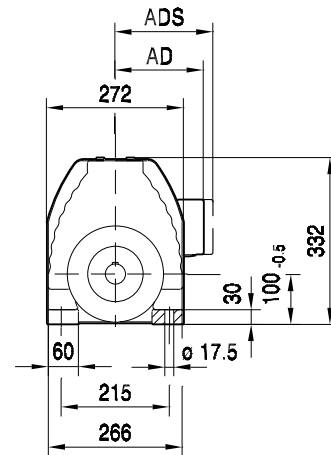
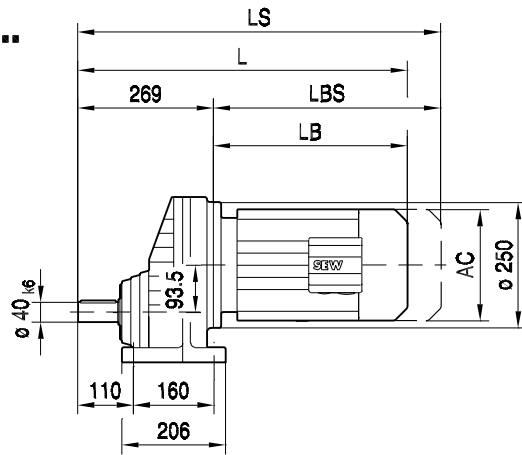
## ø 200



## ø 250

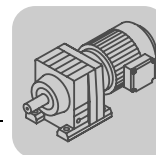


| (→ 11) | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M |  |  |  |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|--|--|--|
| AC     | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    |  |  |  |
| AD     | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    |  |  |  |
| ADS    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    |  |  |  |
| L      | 488    | 538    | 568    | 572    | 617    | 639    | 699     | 699    |  |  |  |
| LS     | 573    | 623    | 653    | 652    | 697    | 751    | 811     | 811    |  |  |  |
| LB     | 261    | 311    | 341    | 345    | 390    | 412    | 472     | 472    |  |  |  |
| LBS    | 346    | 396    | 426    | 425    | 470    | 524    | 584     | 584    |  |  |  |

**RX87..**

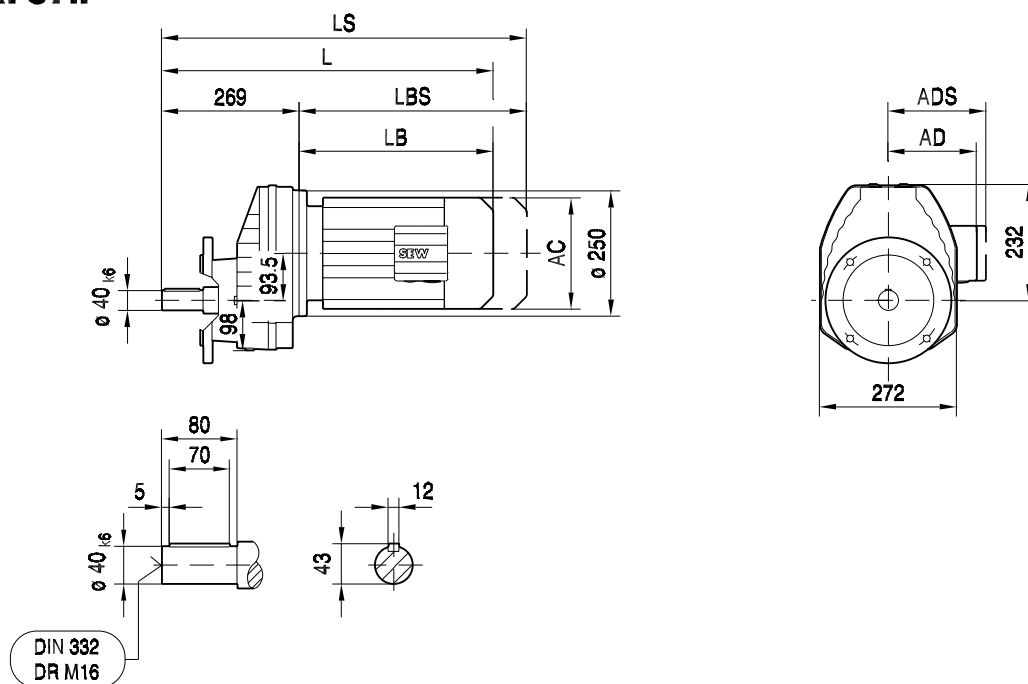
DIN 332  
DR M16

| (→ 11)     | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. |  |  |  |
|------------|--------|--------|--------|--------|---------|--------|--------|---------|--|--|--|
| <b>AC</b>  | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     |  |  |  |
| <b>AD</b>  | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     |  |  |  |
| <b>ADS</b> | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     |  |  |  |
| <b>L</b>   | 606    | 609    | 654    | 676    | 736     | 736    | 783    | 855     |  |  |  |
| <b>LS</b>  | 691    | 689    | 734    | 788    | 848     | 848    | 939    | 1011    |  |  |  |
| <b>LB</b>  | 337    | 340    | 385    | 407    | 467     | 467    | 514    | 586     |  |  |  |
| <b>LBS</b> | 422    | 420    | 465    | 519    | 579     | 579    | 670    | 742     |  |  |  |

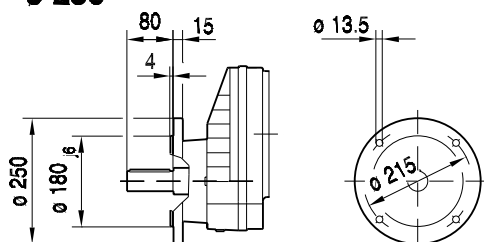


04 036 03 00

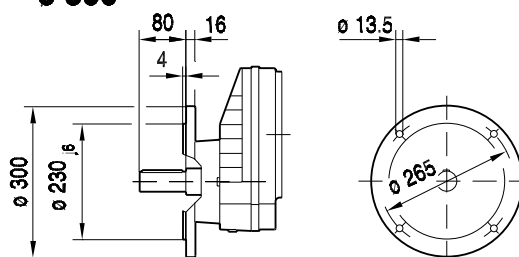
# RXF87..



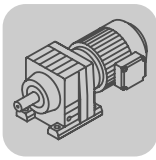
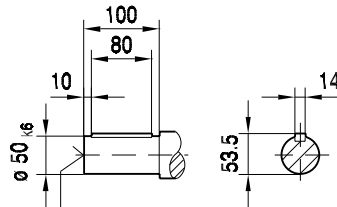
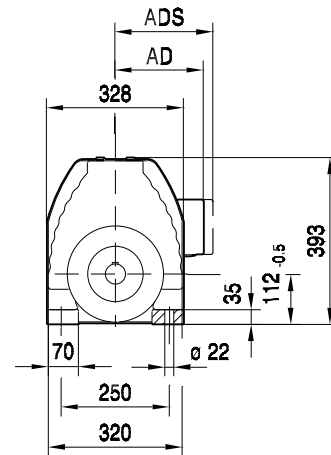
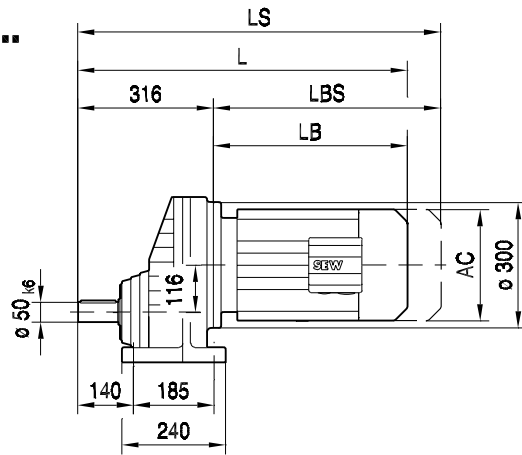
## $\phi 250$



## $\phi 300$

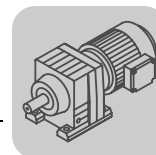


| (→ 11) | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. |  |  |  |
|--------|--------|--------|--------|--------|---------|--------|--------|---------|--|--|--|
| AC     | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     |  |  |  |
| AD     | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     |  |  |  |
| ADS    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     |  |  |  |
| L      | 606    | 609    | 654    | 676    | 736     | 736    | 783    | 855     |  |  |  |
| LS     | 691    | 689    | 734    | 788    | 848     | 848    | 939    | 1011    |  |  |  |
| LB     | 337    | 340    | 385    | 407    | 467     | 467    | 514    | 586     |  |  |  |
| LBS    | 422    | 420    | 465    | 519    | 579     | 579    | 670    | 742     |  |  |  |

**RX97..**

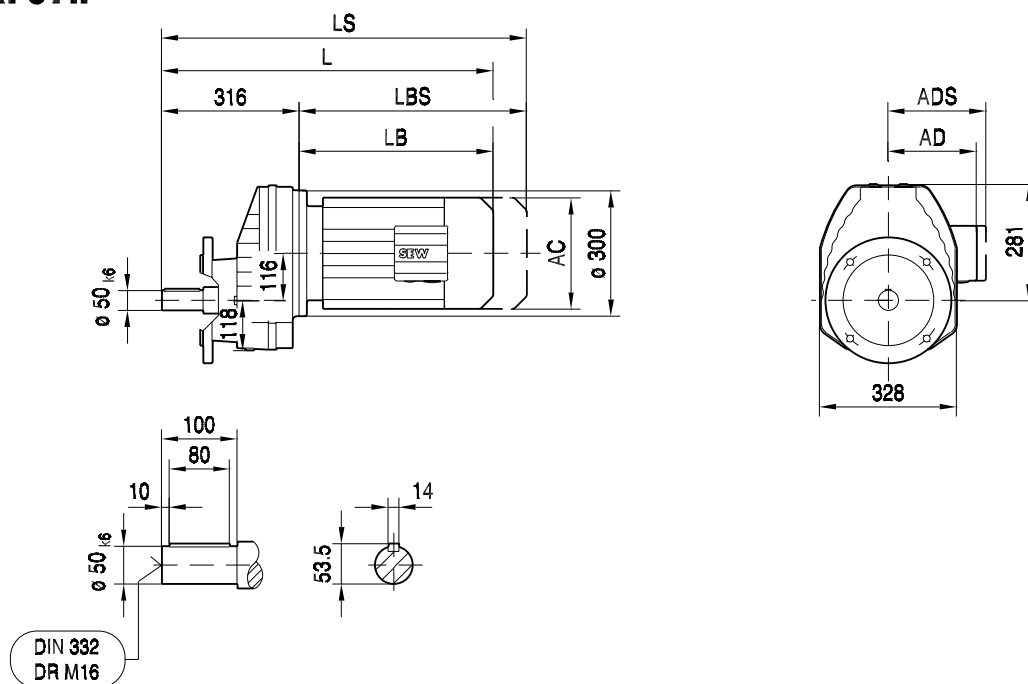
DIN 332  
DR M16

| (→ 11) | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. |  |  |  |  |
|--------|--------|--------|---------|--------|--------|---------|---------|--|--|--|--|
| AC     | 221    | 275    | 275     | 275    | 331    | 331     | 394     |  |  |  |  |
| AD     | 179    | 230    | 230     | 230    | 258    | 258     | 285     |  |  |  |  |
| ADS    | 182    | 230    | 230     | 230    | 258    | 258     | 285     |  |  |  |  |
| L      | 696    | 718    | 778     | 778    | 825    | 897     | 945     |  |  |  |  |
| LS     | 776    | 830    | 890     | 890    | 981    | 1053    | 1101    |  |  |  |  |
| LB     | 380    | 402    | 462     | 462    | 509    | 581     | 629     |  |  |  |  |
| LBS    | 460    | 514    | 574     | 574    | 665    | 737     | 785     |  |  |  |  |

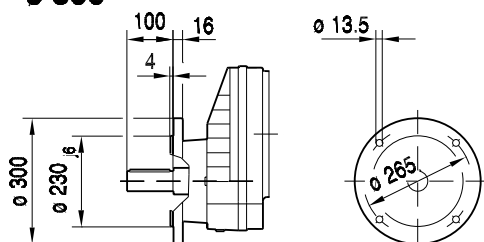


04 037 03 00

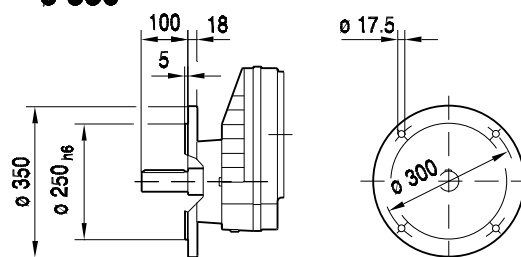
## RXF97..



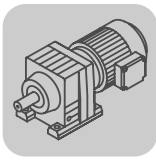
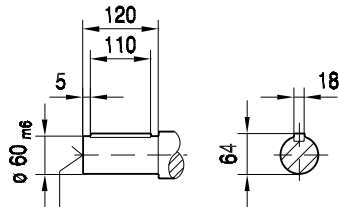
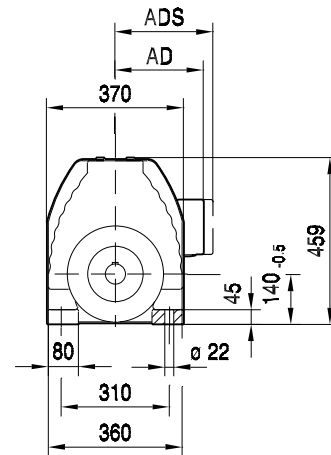
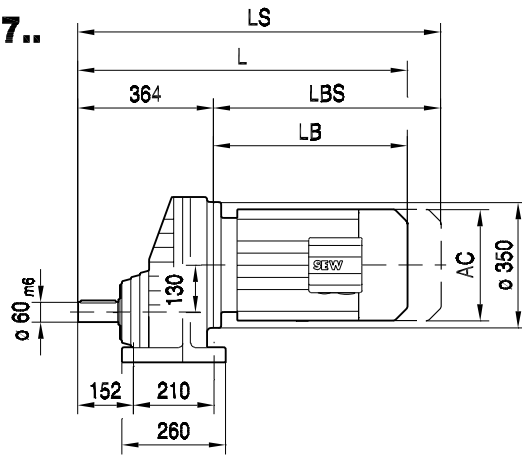
## ø 300



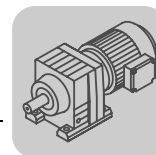
## ø 350



| (→ 11) | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. |  |  |  |  |
|--------|--------|--------|---------|--------|--------|---------|---------|--|--|--|--|
| AC     | 221    | 275    | 275     | 275    | 331    | 331     | 394     |  |  |  |  |
| AD     | 179    | 230    | 230     | 230    | 258    | 258     | 285     |  |  |  |  |
| ADS    | 182    | 230    | 230     | 230    | 258    | 258     | 285     |  |  |  |  |
| L      | 696    | 718    | 778     | 778    | 825    | 897     | 945     |  |  |  |  |
| LS     | 776    | 830    | 890     | 890    | 981    | 1053    | 1101    |  |  |  |  |
| LB     | 380    | 402    | 462     | 462    | 509    | 581     | 629     |  |  |  |  |
| LBS    | 460    | 514    | 574     | 574    | 665    | 737     | 785     |  |  |  |  |

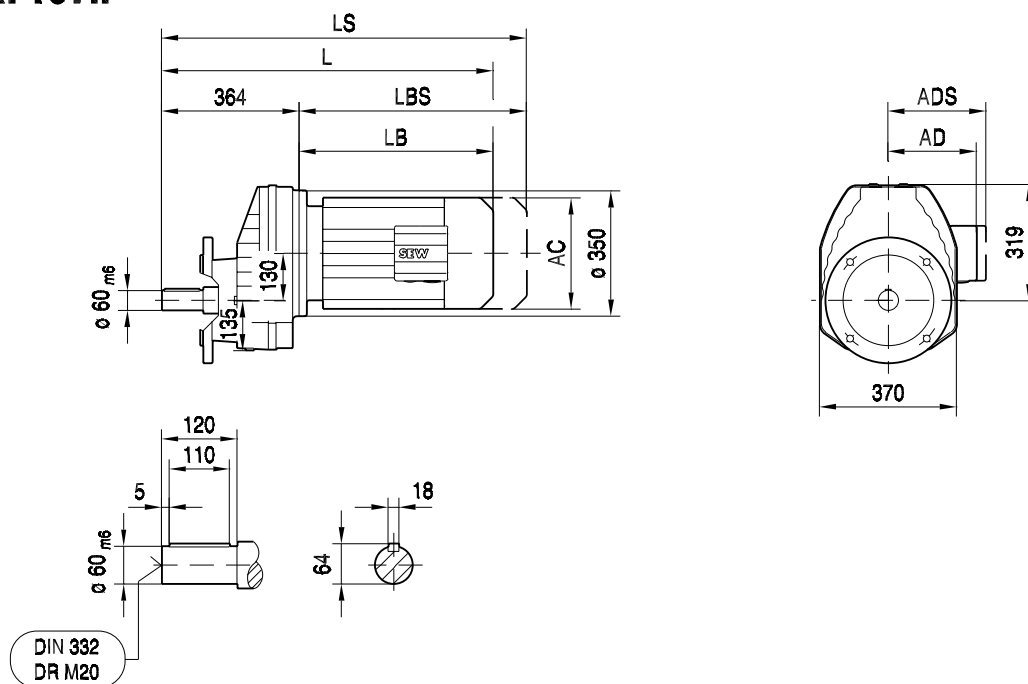
**RX107..**
 DIN 332  
 DR M20

| (→ 11)     | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. |  |  |  |
|------------|--------|--------|---------|--------|--------|---------|---------|---------|--|--|--|
| <b>AC</b>  | 221    | 275    | 275     | 275    | 331    | 331     | 394     | 394     |  |  |  |
| <b>AD</b>  | 179    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |  |  |  |
| <b>ADS</b> | 182    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |  |  |  |
| <b>L</b>   | 738    | 760    | 820     | 820    | 867    | 939     | 987     | 1069    |  |  |  |
| <b>LS</b>  | 818    | 872    | 932     | 932    | 1023   | 1095    | 1143    | 1225    |  |  |  |
| <b>LB</b>  | 374    | 396    | 456     | 456    | 503    | 575     | 623     | 705     |  |  |  |
| <b>LBS</b> | 454    | 508    | 568     | 568    | 659    | 731     | 779     | 861     |  |  |  |

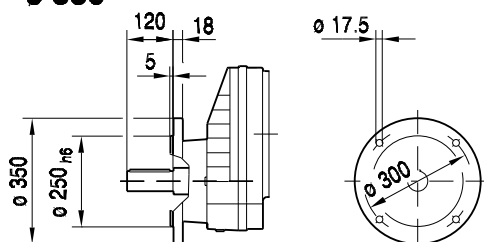


04 038 03 00

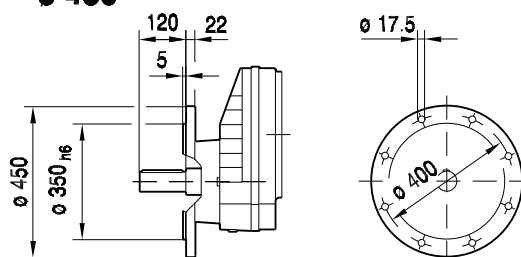
# RXF107..



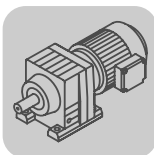
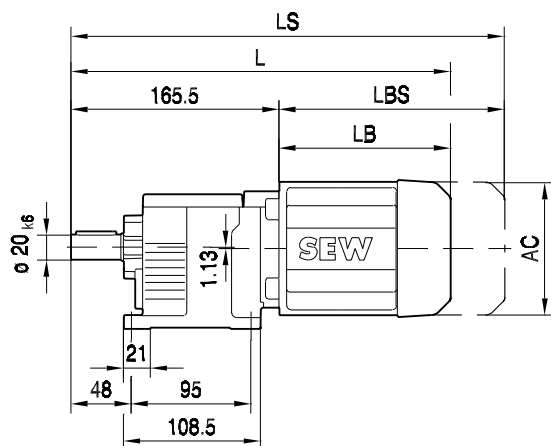
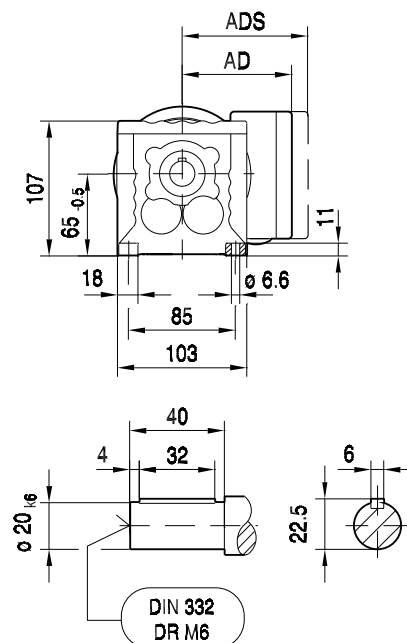
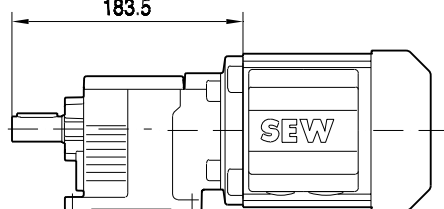
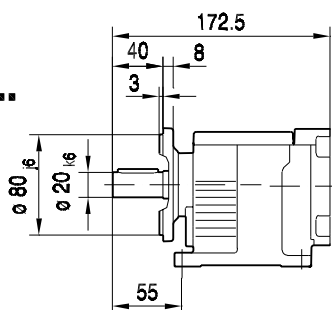
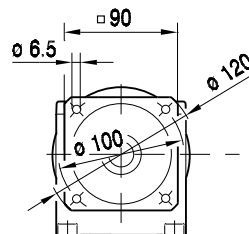
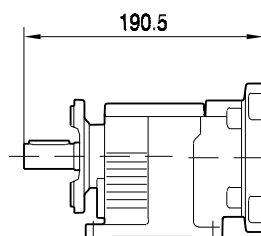
## ø 350



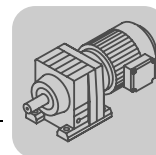
## ø 450



| (→ 11) | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. |  |  |  |
|--------|--------|--------|---------|--------|--------|---------|---------|---------|--|--|--|
| AC     | 221    | 275    | 275     | 275    | 331    | 331     | 394     | 394     |  |  |  |
| AD     | 179    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |  |  |  |
| ADS    | 182    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |  |  |  |
| L      | 738    | 760    | 820     | 820    | 867    | 939     | 987     | 1069    |  |  |  |
| LS     | 818    | 872    | 932     | 932    | 1023   | 1095    | 1143    | 1225    |  |  |  |
| LB     | 374    | 396    | 456     | 456    | 503    | 575     | 623     | 705     |  |  |  |
| LBS    | 454    | 508    | 568     | 568    | 659    | 731     | 779     | 861     |  |  |  |

**R07..****DT56..****DR/DT..****R07F..****DT56..****DR/DT..**

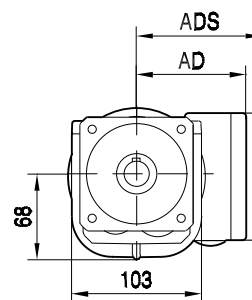
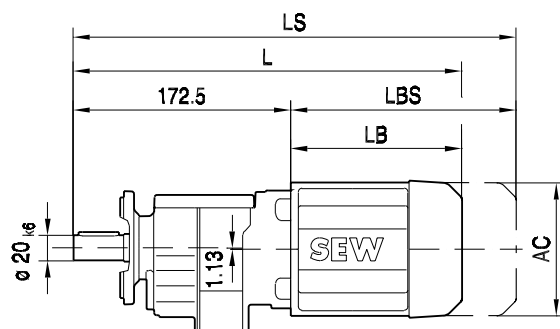
| (→ 11) | DT56.. | DR63.. | DT71D |  |  |  |  |  |  |  |
|--------|--------|--------|-------|--|--|--|--|--|--|--|
| AC     | 109    | 132    | 145   |  |  |  |  |  |  |  |
| AD     | 87     | 105    | 122   |  |  |  |  |  |  |  |
| ADS    | 87     | 105    | 127   |  |  |  |  |  |  |  |
| L      | 302    | 333    | 347   |  |  |  |  |  |  |  |
| LS     | 338    | 388    | 411   |  |  |  |  |  |  |  |
| LB     | 136    | 149    | 164   |  |  |  |  |  |  |  |
| LBS    | 172    | 204    | 227   |  |  |  |  |  |  |  |



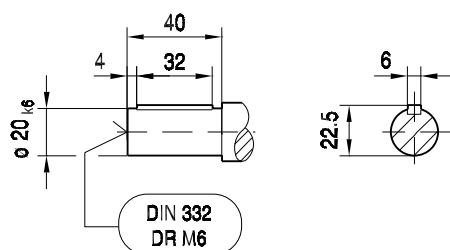
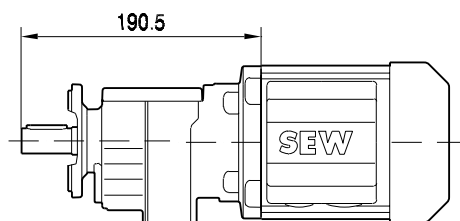
04 003 01 02

**RF07..**

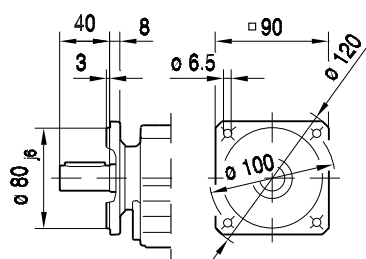
**DT56..**



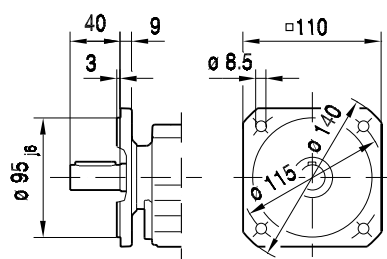
**DR/DT..**



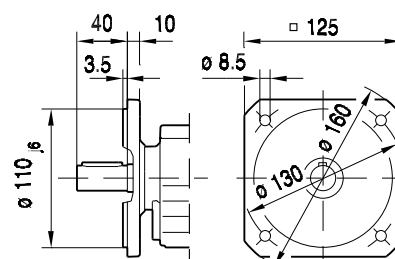
**ø 120**



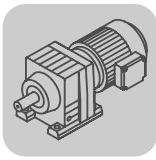
**ø 140**



**ø 160**



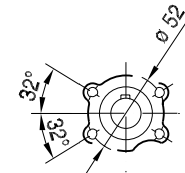
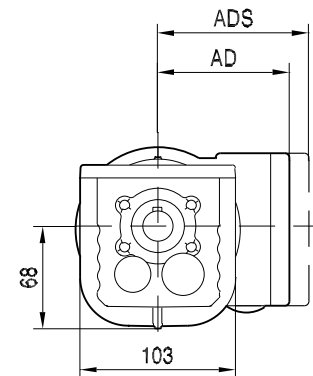
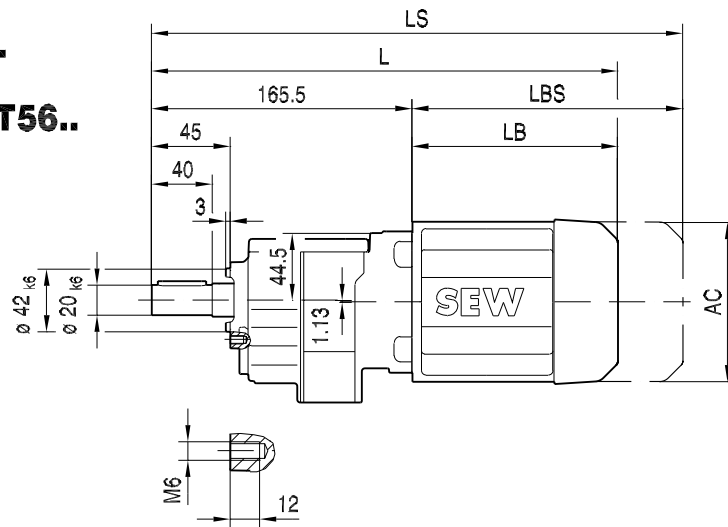
| (→ 11) | DT56.. | DR63.. | DT71D |  |  |  |  |  |  |  |
|--------|--------|--------|-------|--|--|--|--|--|--|--|
| AC     | 109    | 132    | 145   |  |  |  |  |  |  |  |
| AD     | 87     | 105    | 122   |  |  |  |  |  |  |  |
| ADS    | 87     | 105    | 127   |  |  |  |  |  |  |  |
| L      | 309    | 340    | 354   |  |  |  |  |  |  |  |
| LS     | 345    | 395    | 418   |  |  |  |  |  |  |  |
| LB     | 136    | 149    | 164   |  |  |  |  |  |  |  |
| LBS    | 172    | 204    | 227   |  |  |  |  |  |  |  |



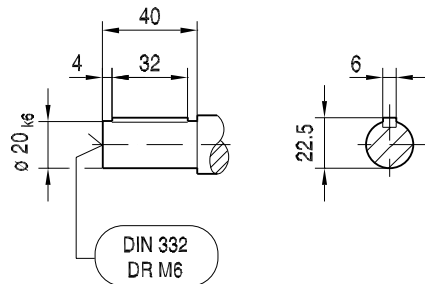
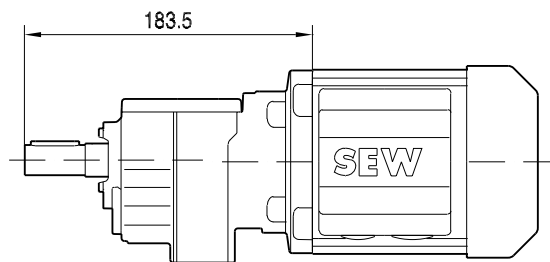
01 012 00 06

**RZ07..**

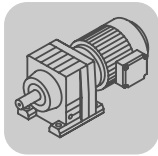
**DT56..**



**DR/DT..**

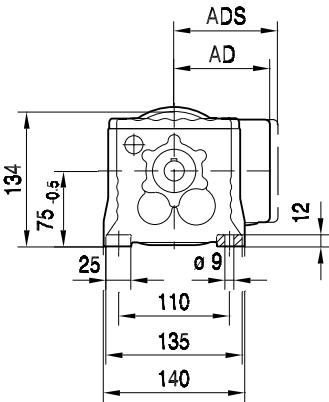
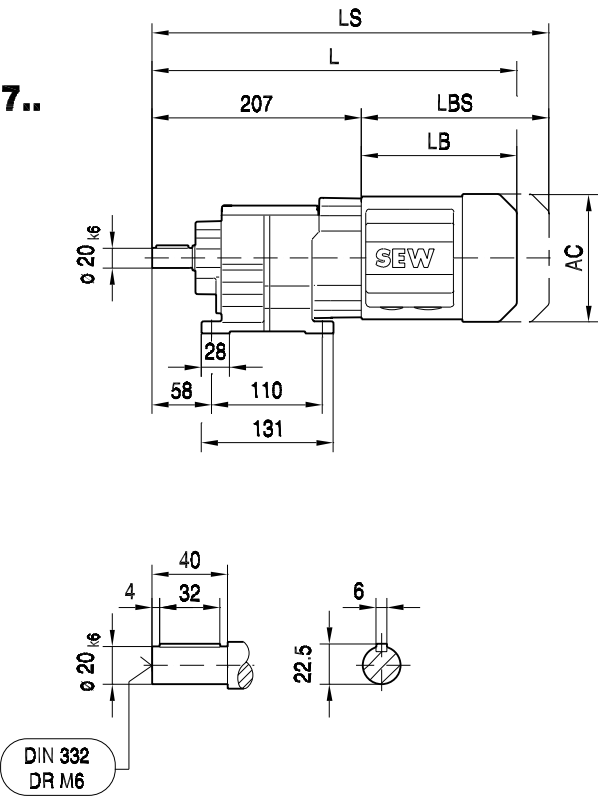


| (→ 11) | DT56.. | DR63.. | DT71D |  |  |  |  |  |  |  |  |
|--------|--------|--------|-------|--|--|--|--|--|--|--|--|
| AC     | 109    | 132    | 145   |  |  |  |  |  |  |  |  |
| AD     | 87     | 105    | 122   |  |  |  |  |  |  |  |  |
| ADS    | 87     | 105    | 127   |  |  |  |  |  |  |  |  |
| L      | 327    | 340    | 354   |  |  |  |  |  |  |  |  |
| LS     | 363    | 395    | 418   |  |  |  |  |  |  |  |  |
| LB     | 136    | 149    | 164   |  |  |  |  |  |  |  |  |
| LBS    | 172    | 204    | 227   |  |  |  |  |  |  |  |  |



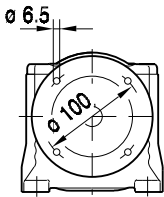
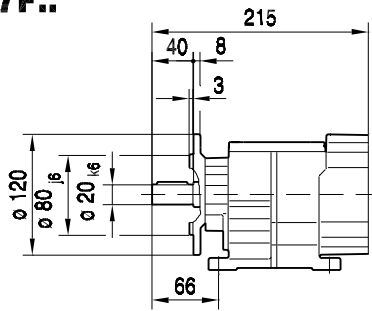
04 001 03 00

R17..

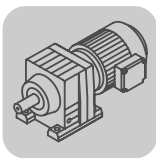


3

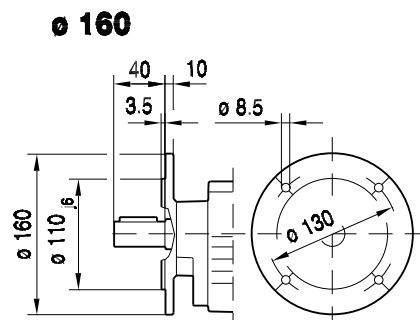
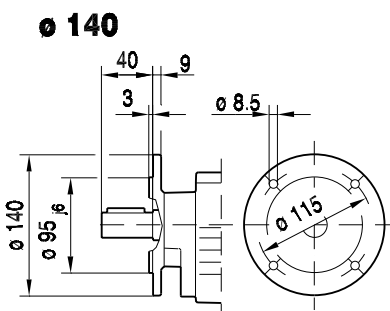
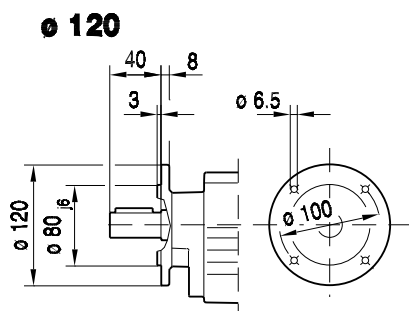
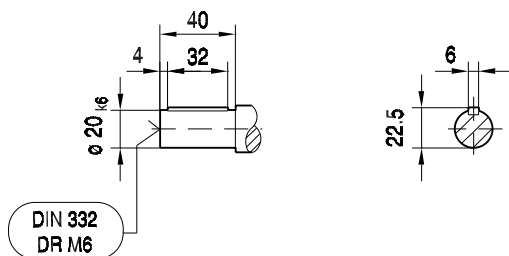
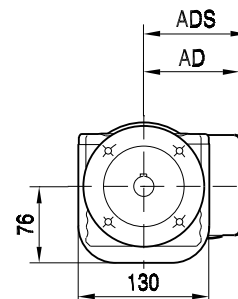
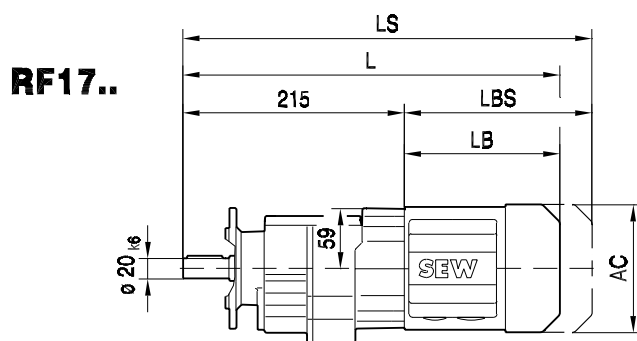
R17F..



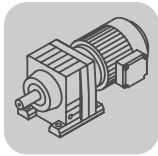
| (→ 11) | DR63.. | DT71D | DT80.. |  |  |  |  |  |  |  |  |
|--------|--------|-------|--------|--|--|--|--|--|--|--|--|
| AC     | 132    | 145   | 145    |  |  |  |  |  |  |  |  |
| AD     | 105    | 122   | 122    |  |  |  |  |  |  |  |  |
| ADS    | 105    | 127   | 127    |  |  |  |  |  |  |  |  |
| L      | 356    | 371   | 421    |  |  |  |  |  |  |  |  |
| LS     | 411    | 434   | 484    |  |  |  |  |  |  |  |  |
| LB     | 149    | 164   | 214    |  |  |  |  |  |  |  |  |
| LBS    | 204    | 227   | 277    |  |  |  |  |  |  |  |  |



04 014 03 00

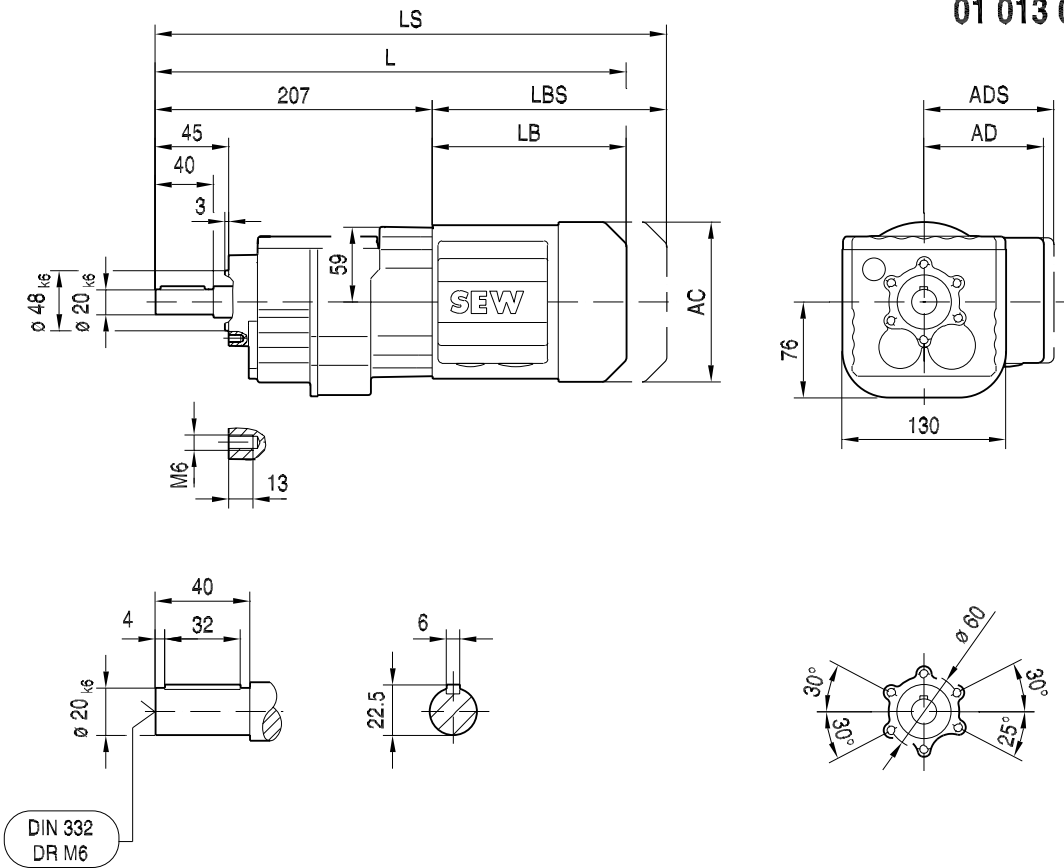


| (→ 11) | DR63.. | DT71D | DT80.. |  |  |  |  |  |  |  |
|--------|--------|-------|--------|--|--|--|--|--|--|--|
| AC     | 132    | 145   | 145    |  |  |  |  |  |  |  |
| AD     | 105    | 122   | 122    |  |  |  |  |  |  |  |
| ADS    | 105    | 127   | 127    |  |  |  |  |  |  |  |
| L      | 364    | 379   | 429    |  |  |  |  |  |  |  |
| LS     | 419    | 442   | 492    |  |  |  |  |  |  |  |
| LB     | 149    | 164   | 214    |  |  |  |  |  |  |  |
| LBS    | 204    | 227   | 277    |  |  |  |  |  |  |  |



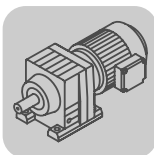
RZ17..

01 013 00 06



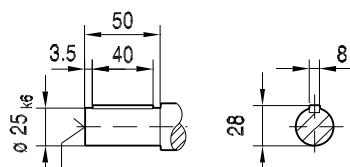
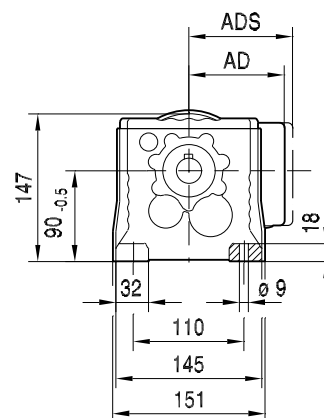
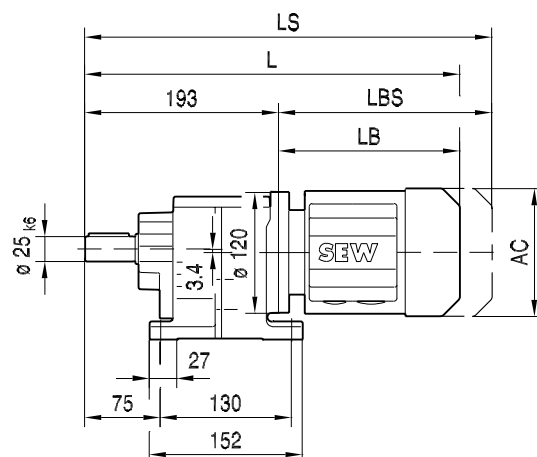
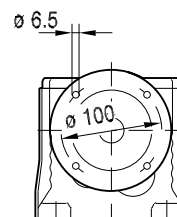
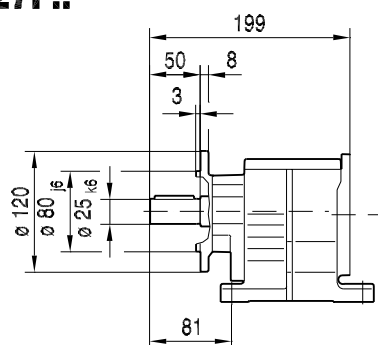
3

| (→ 11) | DR63.. | DT71D | DT80.. |  |  |  |  |  |  |  |  |
|--------|--------|-------|--------|--|--|--|--|--|--|--|--|
| AC     | 132    | 145   | 145    |  |  |  |  |  |  |  |  |
| AD     | 105    | 122   | 122    |  |  |  |  |  |  |  |  |
| ADS    | 105    | 127   | 127    |  |  |  |  |  |  |  |  |
| L      | 364    | 379   | 429    |  |  |  |  |  |  |  |  |
| LS     | 419    | 442   | 492    |  |  |  |  |  |  |  |  |
| LB     | 149    | 164   | 214    |  |  |  |  |  |  |  |  |
| LBS    | 204    | 227   | 277    |  |  |  |  |  |  |  |  |

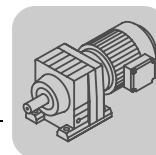


# **R..DR/DT/DV** R.. [mm]

04 002 03 00

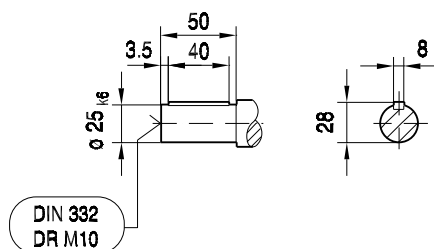
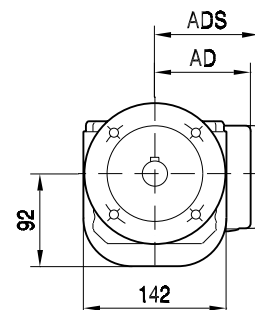
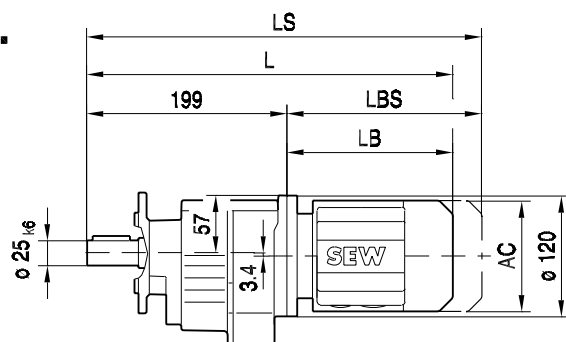
**R27..**DIN 332  
DR M10**R27F..**

| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L |  |  |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--|--|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    |  |  |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    |  |  |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    |  |  |  |  |  |
| L      | 384    | 399   | 449    | 469    | 521    | 551    |  |  |  |  |  |
| LS     | 439    | 462   | 512    | 554    | 606    | 636    |  |  |  |  |  |
| LB     | 191    | 206   | 256    | 276    | 328    | 358    |  |  |  |  |  |
| LBS    | 246    | 269   | 319    | 361    | 413    | 443    |  |  |  |  |  |

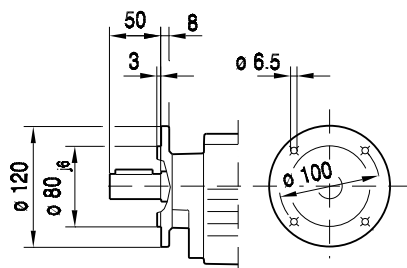


04 015 03 00

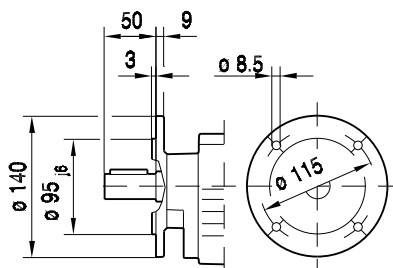
**RF27..**



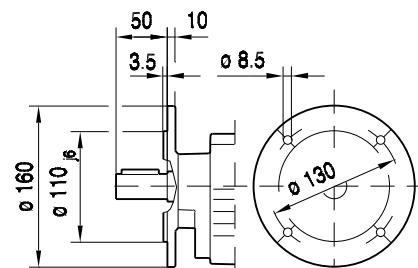
**0 120**



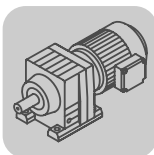
**0 140**



**0 160**



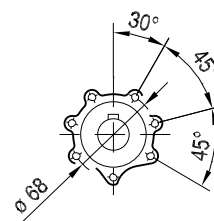
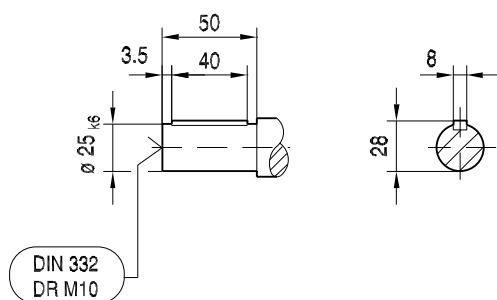
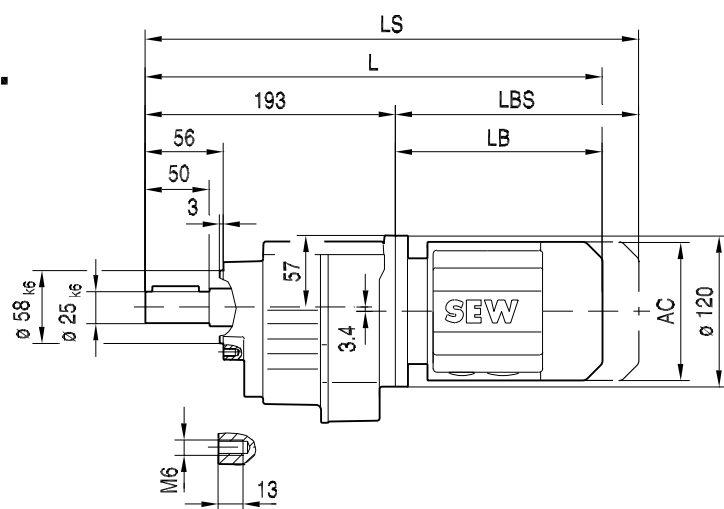
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L |  |  |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--|--|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    |  |  |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    |  |  |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    |  |  |  |  |  |
| L      | 390    | 405   | 455    | 475    | 527    | 557    |  |  |  |  |  |
| LS     | 445    | 468   | 518    | 560    | 612    | 642    |  |  |  |  |  |
| LB     | 191    | 206   | 256    | 276    | 328    | 358    |  |  |  |  |  |
| LBS    | 246    | 269   | 319    | 361    | 413    | 443    |  |  |  |  |  |



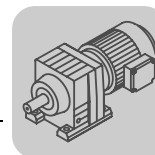
**R..DR/DT/DV**  
R.. [mm]

**RZ27..**

01 014 00 06

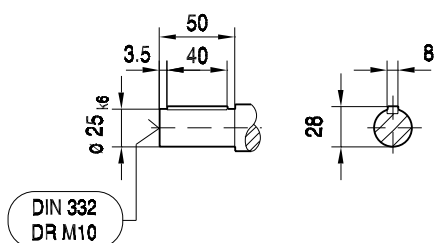
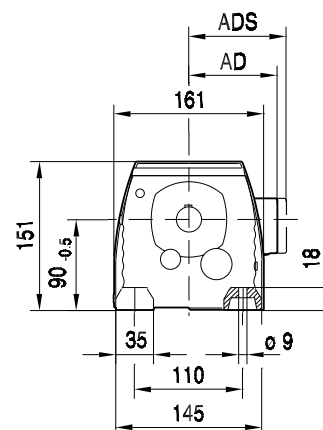
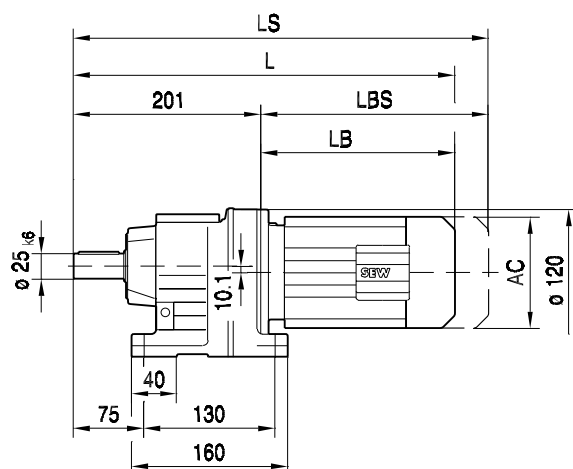


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L |  |  |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--|--|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    |  |  |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    |  |  |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    |  |  |  |  |  |
| L      | 390    | 405   | 455    | 475    | 527    | 557    |  |  |  |  |  |
| LS     | 445    | 468   | 518    | 560    | 612    | 642    |  |  |  |  |  |
| LB     | 191    | 206   | 256    | 276    | 328    | 358    |  |  |  |  |  |
| LBS    | 246    | 269   | 319    | 361    | 413    | 443    |  |  |  |  |  |

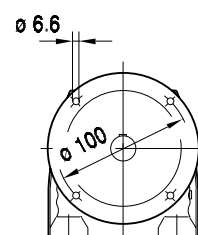
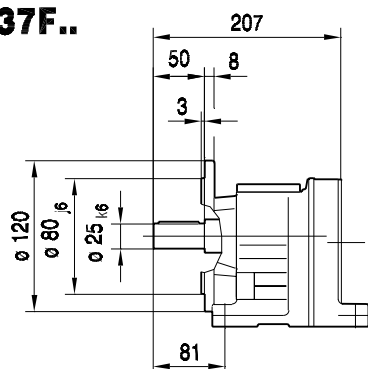


04 003 03 00

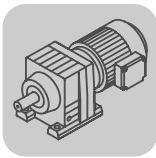
**R37..**



**R37F..**



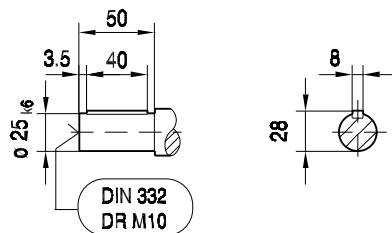
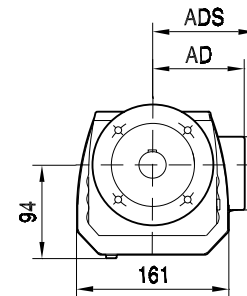
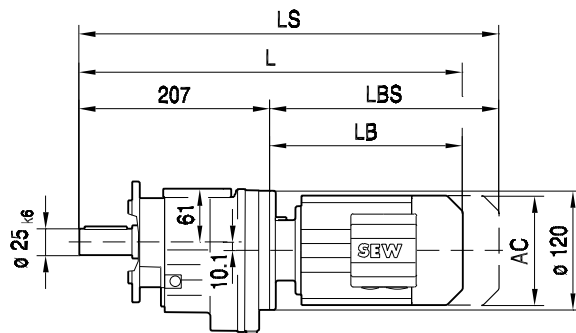
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L |  |  |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--|--|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    |  |  |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    |  |  |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    |  |  |  |  |  |
| L      | 392    | 407   | 457    | 477    | 529    | 559    |  |  |  |  |  |
| LS     | 447    | 470   | 520    | 562    | 614    | 644    |  |  |  |  |  |
| LB     | 191    | 206   | 256    | 276    | 328    | 358    |  |  |  |  |  |
| LBS    | 246    | 269   | 319    | 361    | 413    | 443    |  |  |  |  |  |



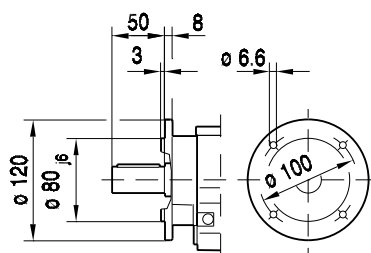
**R..DR/DT/DV**  
R.. [mm]

**RF37..**

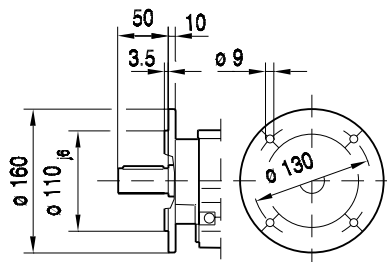
**04 016 03 00**



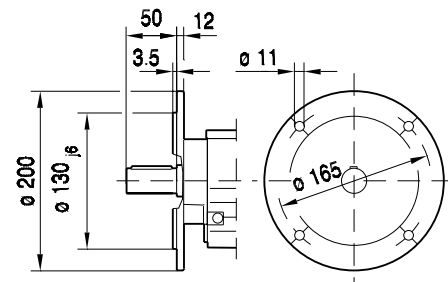
**$\varnothing 120$**



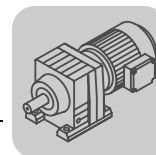
**$\varnothing 160$**



**$\varnothing 200$**

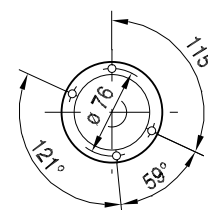
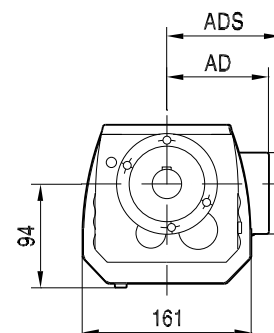
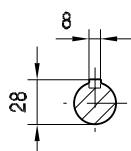
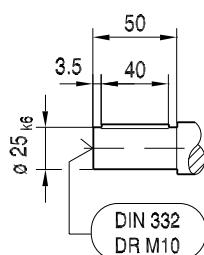
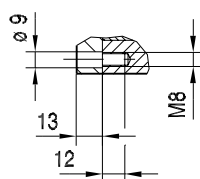
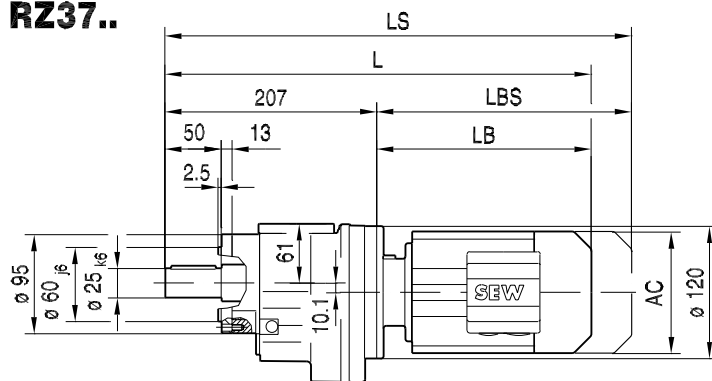


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L |  |  |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--|--|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    |  |  |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    |  |  |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    |  |  |  |  |  |
| L      | 398    | 413   | 463    | 483    | 535    | 565    |  |  |  |  |  |
| LS     | 453    | 476   | 526    | 568    | 620    | 650    |  |  |  |  |  |
| LB     | 191    | 206   | 256    | 276    | 328    | 358    |  |  |  |  |  |
| LBS    | 246    | 269   | 319    | 361    | 413    | 443    |  |  |  |  |  |

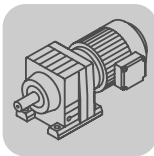


**RZ37..**

01 015 00 06



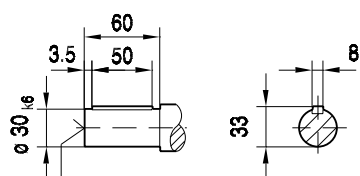
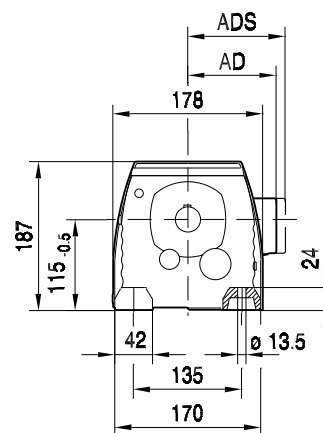
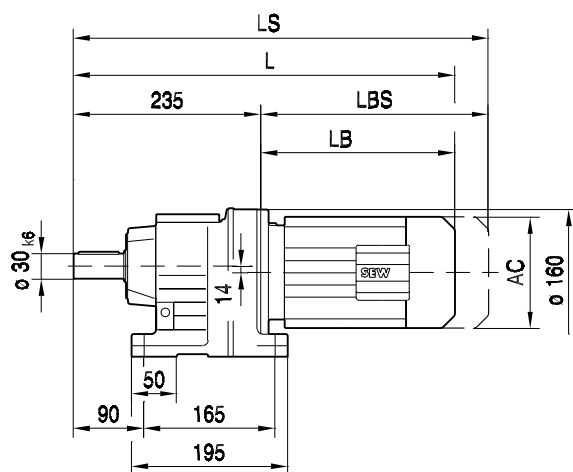
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L |  |  |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--|--|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    |  |  |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    |  |  |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    |  |  |  |  |  |
| L      | 398    | 413   | 463    | 483    | 535    | 565    |  |  |  |  |  |
| LS     | 453    | 476   | 526    | 568    | 620    | 650    |  |  |  |  |  |
| LB     | 191    | 206   | 256    | 276    | 328    | 358    |  |  |  |  |  |
| LBS    | 246    | 269   | 319    | 361    | 413    | 443    |  |  |  |  |  |



# R..DR/DT/DV R.. [mm]

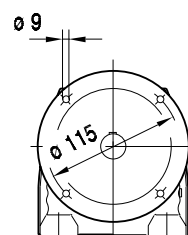
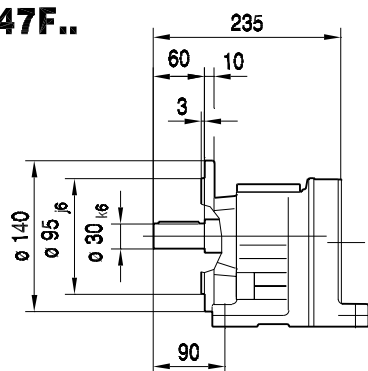
04 004 03 00

## R47..

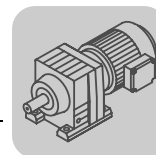


DIN 332  
DR M10

## R47F..

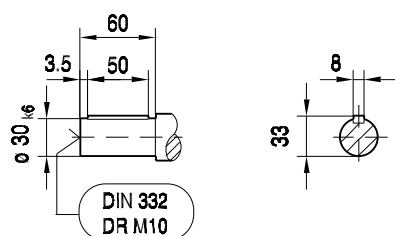
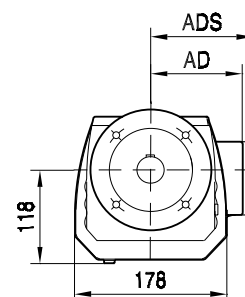
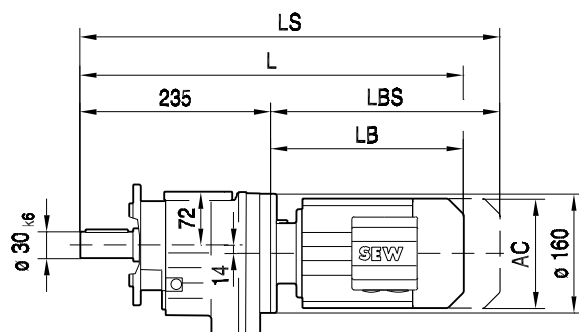


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    |  |  |  |
| L      | 420    | 434   | 484    | 504    | 554    | 584    | 589    | 637    |  |  |  |
| LS     | 475    | 498   | 548    | 589    | 639    | 669    | 669    | 717    |  |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    |  |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    |  |  |  |

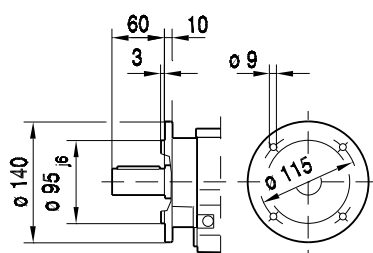


**RF47..**

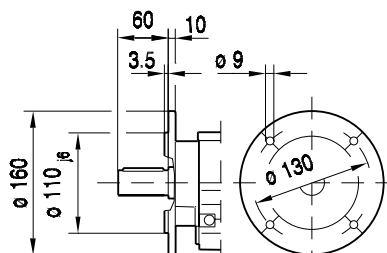
**04 017 03 00**



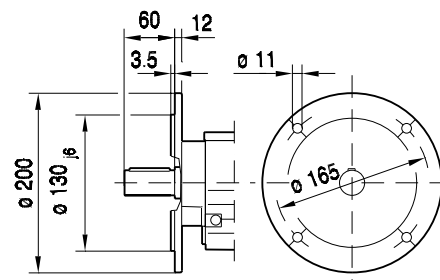
**ø 140**



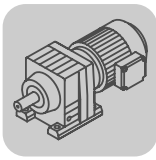
**ø 160**



**ø 200**



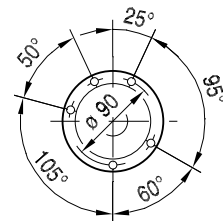
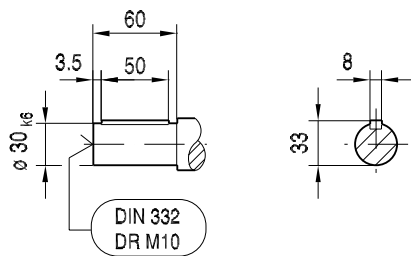
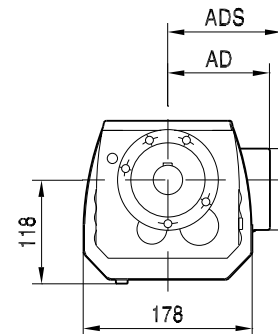
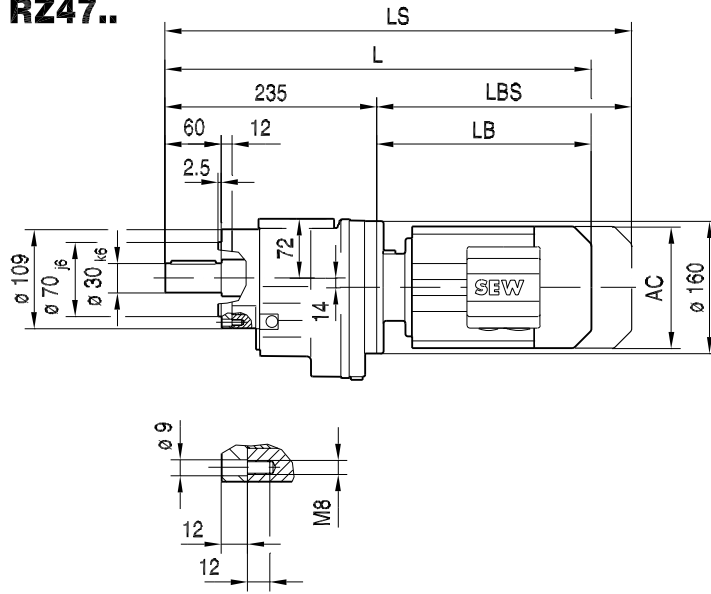
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    |  |  |  |
| L      | 420    | 434   | 484    | 504    | 554    | 584    | 589    | 637    |  |  |  |
| LS     | 475    | 498   | 548    | 589    | 639    | 669    | 669    | 717    |  |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    |  |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    |  |  |  |



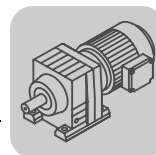
# **R..DR/DT/DV** R.. [mm]

## **RZ47..**

01 016 00 06

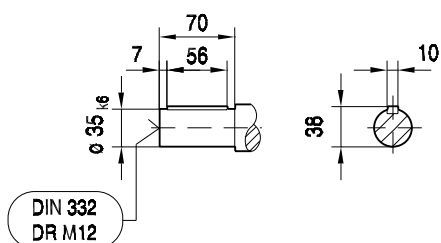
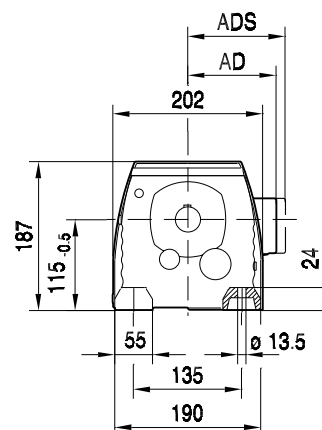
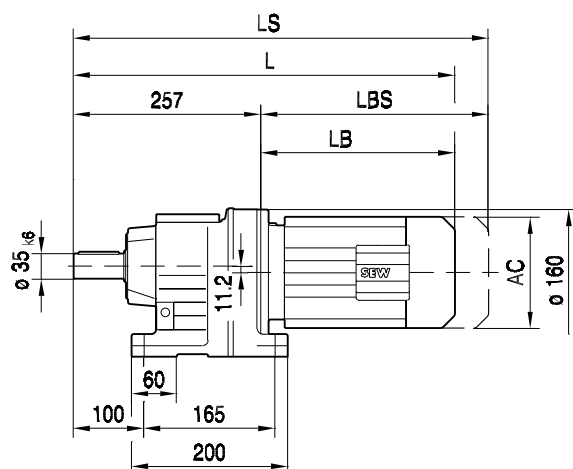


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S |  |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    |  |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    |  |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    |  |  |  |
| L      | 420    | 434   | 484    | 504    | 554    | 584    | 589    | 637    |  |  |  |
| LS     | 475    | 498   | 548    | 589    | 639    | 669    | 669    | 717    |  |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    |  |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    |  |  |  |

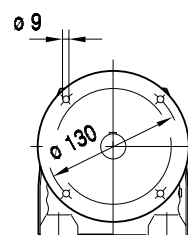
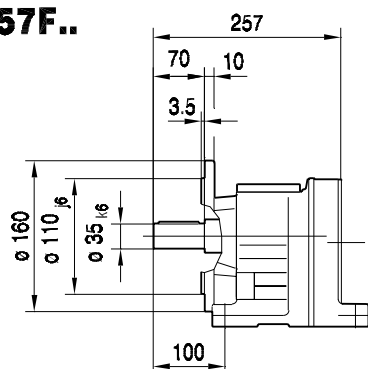


04 005 02 00

**R57..**



**R57F..**



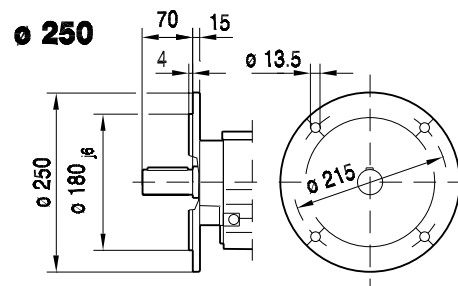
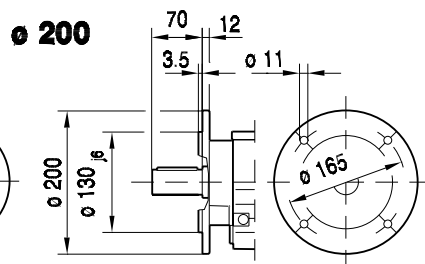
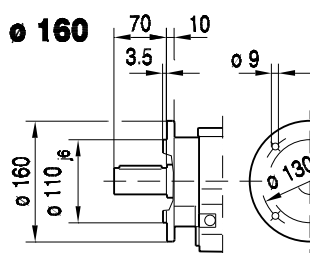
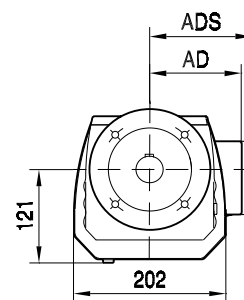
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 442    | 456   | 506    | 526    | 576    | 606    | 611    | 659    | 681    |  |  |
| LS     | 497    | 520   | 570    | 611    | 661    | 691    | 691    | 739    | 793    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |

Technical drawing of a SEW motor showing dimensions and labels. The main view is a side elevation with the following dimensions and labels:

- LS**: Total length of the motor.
- L**: Distance from the front flange to the center of the motor.
- 257**: Distance from the front flange to the center of the motor.
- LBS**: Distance from the front flange to the center of the motor.
- LB**: Distance from the front flange to the center of the motor.
- 72**: Distance from the front flange to the center of the motor.
- 112**: Distance from the front flange to the center of the motor.
- AC**: Distance from the front flange to the center of the motor.
- ø 35<sub>16</sub>**: Diameter of the front flange.
- ø 160**: Diameter of the motor body.
- SEW**: Motor brand name.

Two detail views are shown below the main view:

- Detail 1 (Left)**: A cross-section of the front flange with dimensions:
  - 70**: Total width of the flange.
  - 7**: Thickness of the flange.
  - 56**: Distance from the center of the flange to the center of the motor.
  - ø 35<sub>16</sub>**: Diameter of the flange.
  - DIN 332 DR M12**: Thread specification for the mounting hole.
- Detail 2 (Right)**: A cross-section of the motor body with dimensions:
  - 10**: Thickness of the motor body.
  - 38**: Diameter of the motor body.



Technical drawing of the RM57.. valve assembly, showing dimensions in millimeters (mm).

**Front View Dimensions:**

- Overall width: 420
- Distance from left face to center of stem: 230
- Stem diameter:  $\varnothing 35 \text{ }_{-0.016}^{+0.016}$
- Distance from left face to stem centerline: 180
- Distance from left face to valve body centerline: 250
- Valve body diameter:  $\varnothing 135 \text{ }_{-0.016}^{+0.016}$
- Distance from valve body centerline to stem centerline: 135
- Distance from valve body centerline to stem end: 15
- Distance from stem centerline to valve body end: 4
- Distance from valve body end to stem end: 72
- Distance from valve body end to stem end (alternative view): 112

**Side View Dimensions:**

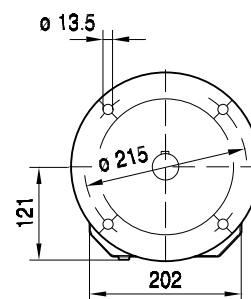
- Overall height: 70
- Distance from bottom face to stem centerline: 60
- Stem diameter:  $\varnothing 35 \text{ }_{-0.016}^{+0.016}$
- Distance from bottom face to stem end: 5

**Detail View Dimensions:**

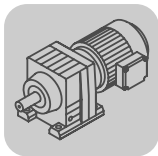
- Overall height: 38
- Distance from bottom face to stem centerline: 10
- Stem diameter:  $\varnothing 35 \text{ }_{-0.016}^{+0.016}$

**Standards:**

- DIN 332
- DR M12

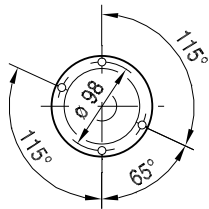
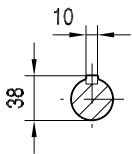
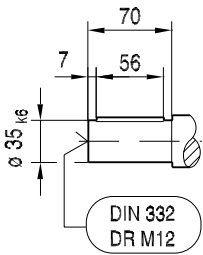
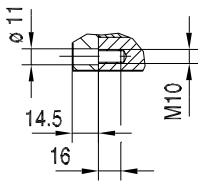
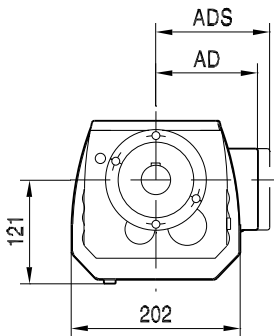
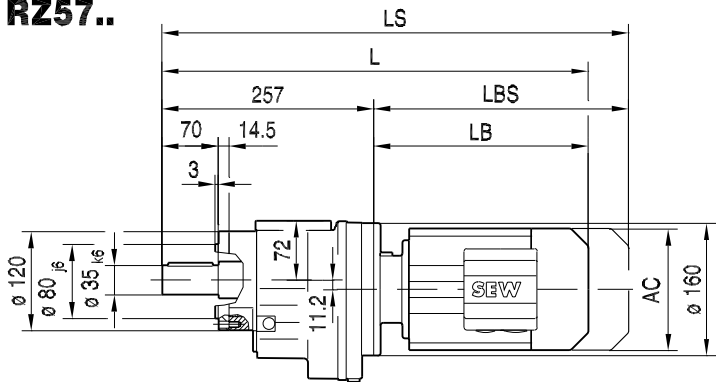


– GM2006



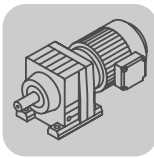
RZ57..

01 017 00 06



3

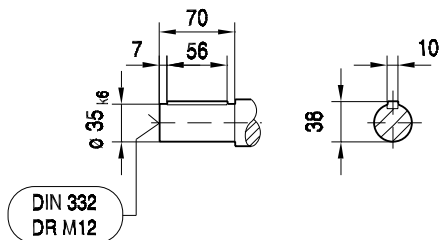
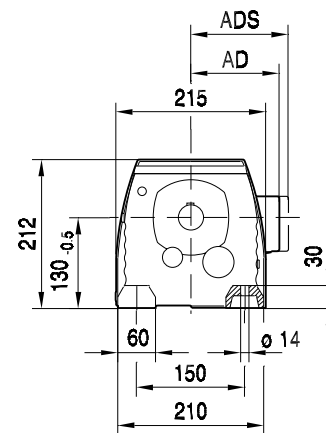
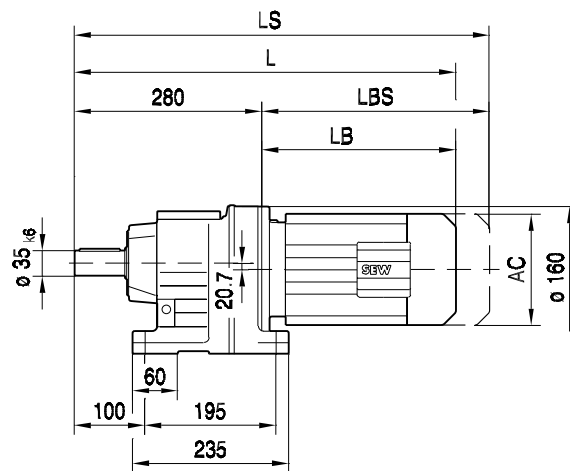
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 442    | 456   | 506    | 526    | 576    | 606    | 611    | 659    | 681    |  |  |
| LS     | 497    | 520   | 570    | 611    | 661    | 691    | 691    | 739    | 793    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |



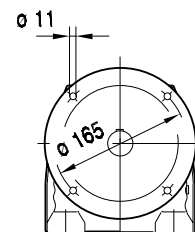
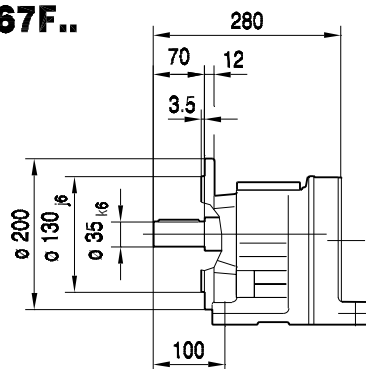
# R..DR/DT/DV R.. [mm]

04 006 02 00

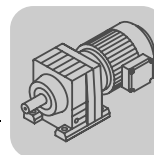
## R67..



## R67F..

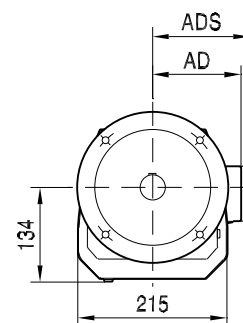
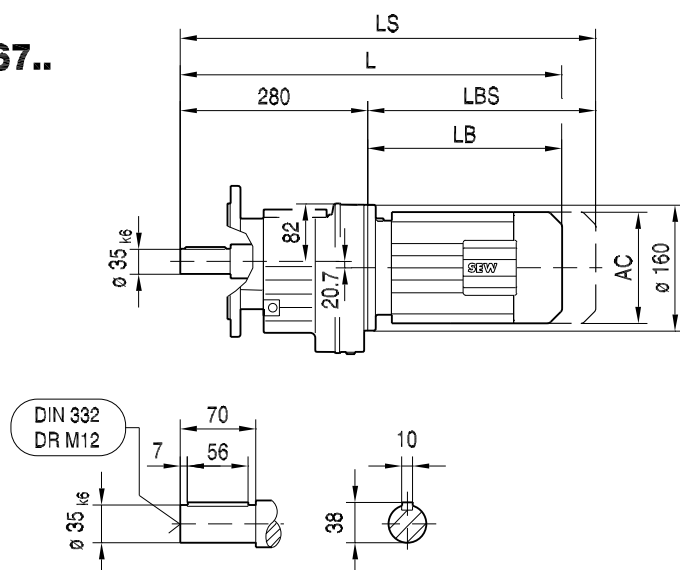


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 465    | 479   | 529    | 549    | 599    | 629    | 634    | 682    | 704    |  |  |
| LS     | 520    | 543   | 593    | 634    | 684    | 714    | 714    | 762    | 816    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |

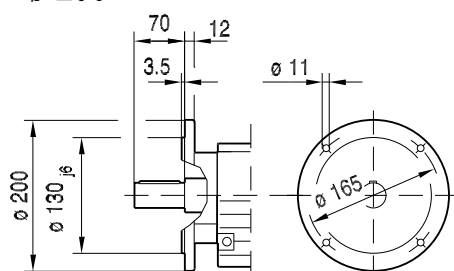


04 019 02 00

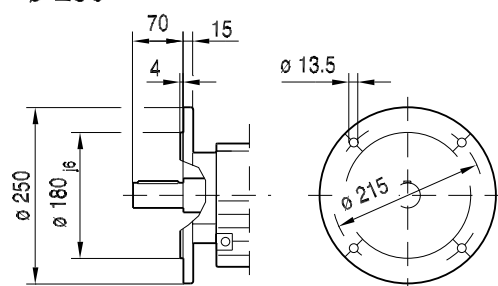
# RF67..



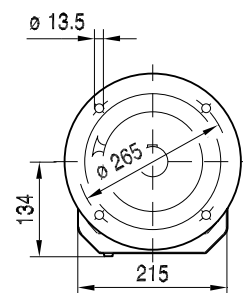
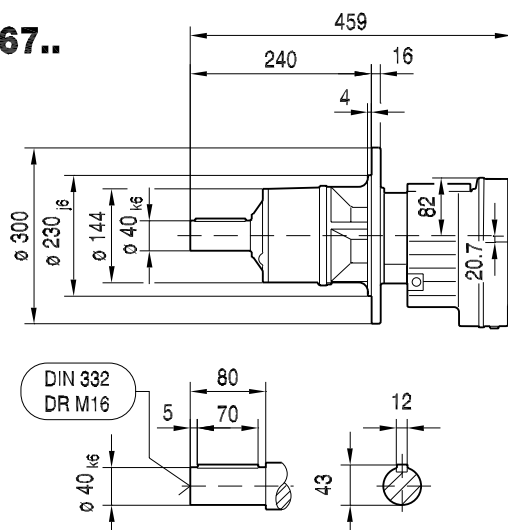
## ø 200



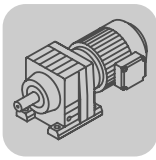
## ø 250



# RM67..



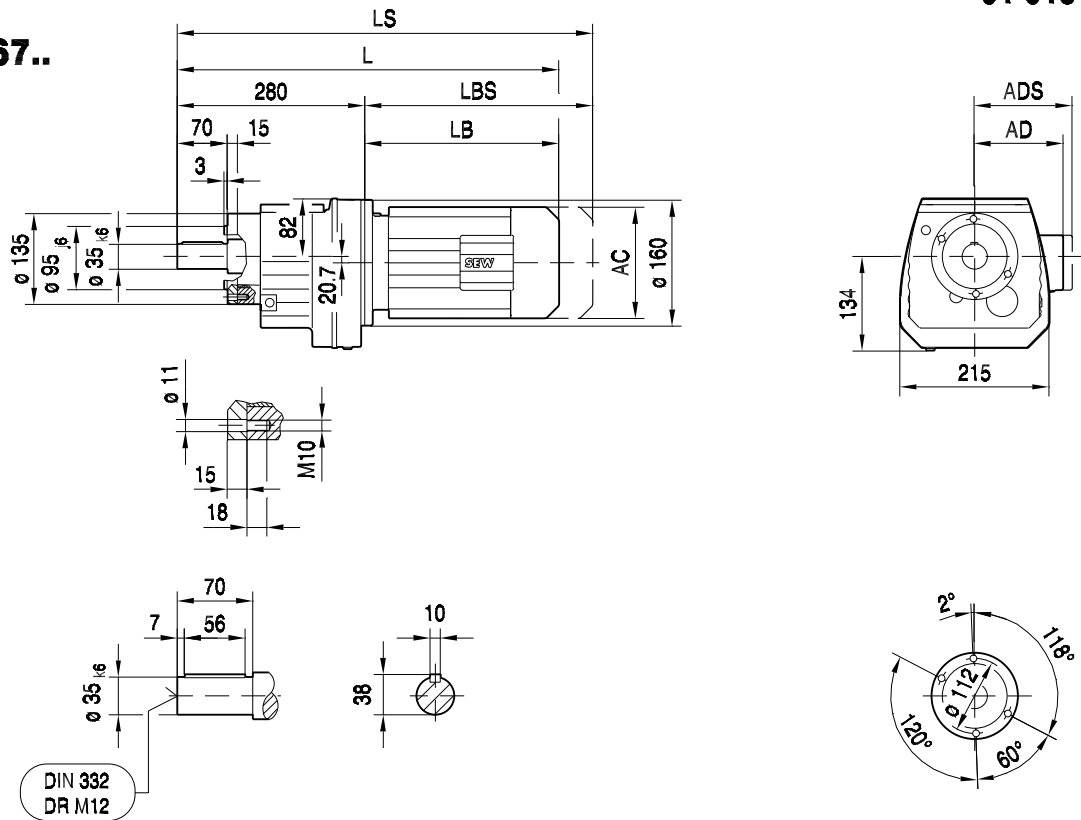
| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 465    | 479   | 529    | 549    | 599    | 629    | 634    | 682    | 704    |  |  |
| LS     | 520    | 543   | 593    | 634    | 684    | 714    | 714    | 762    | 816    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |



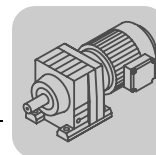
**R..DR/DT/DV**  
R.. [mm]

01 018 00 06

**RZ67..**

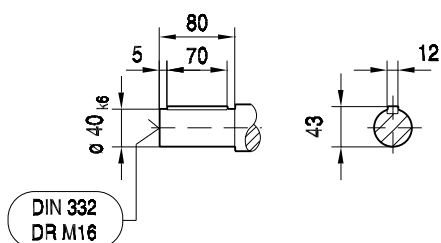
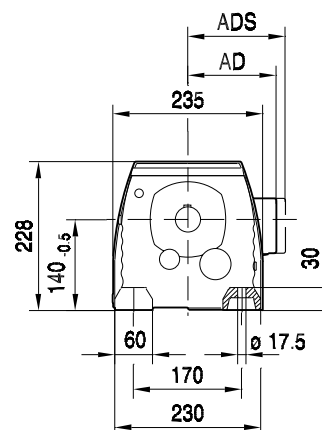
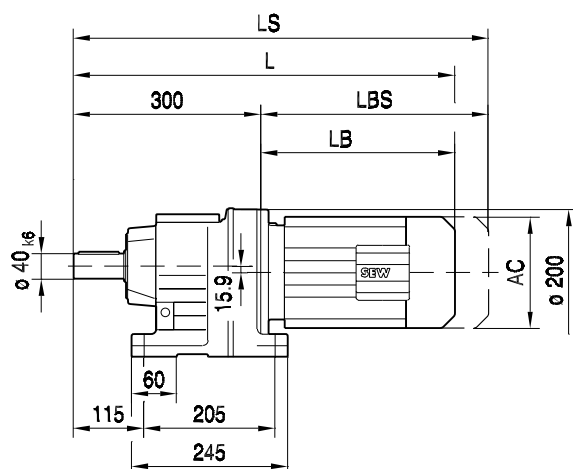


| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M |  |  |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    |  |  |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    |  |  |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    |  |  |
| L      | 465    | 479   | 529    | 549    | 599    | 629    | 634    | 682    | 704    |  |  |
| LS     | 520    | 543   | 593    | 634    | 684    | 714    | 714    | 762    | 816    |  |  |
| LB     | 185    | 199   | 249    | 269    | 319    | 349    | 354    | 402    | 424    |  |  |
| LBS    | 240    | 263   | 313    | 354    | 404    | 434    | 434    | 482    | 536    |  |  |

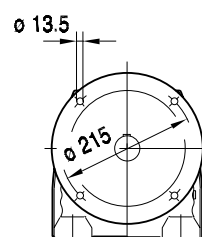
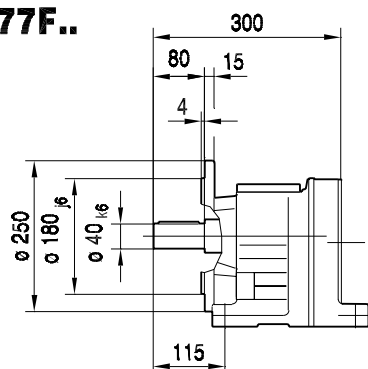


04 007 02 00

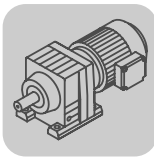
**R77..**



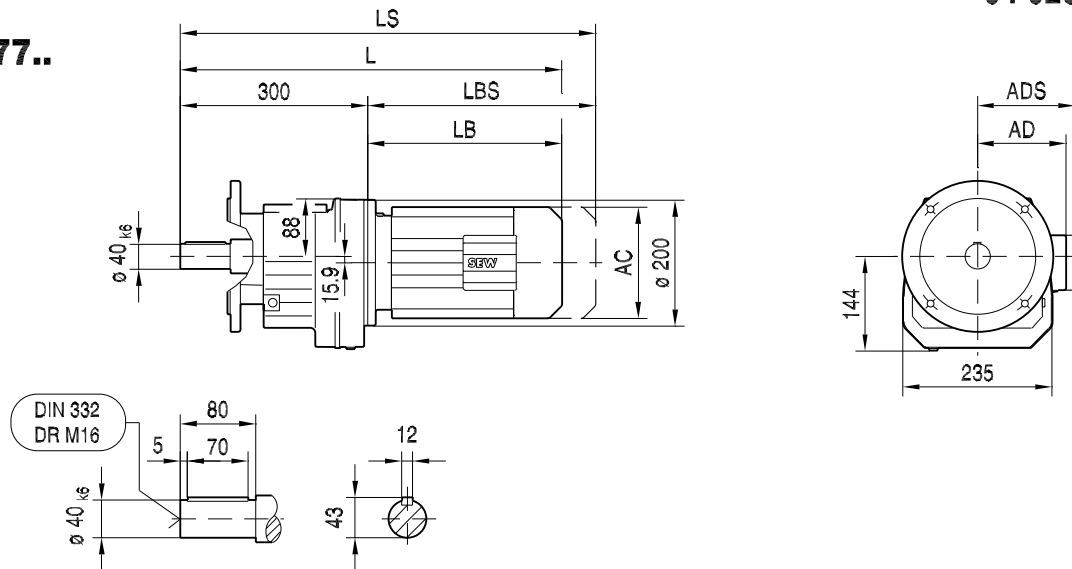
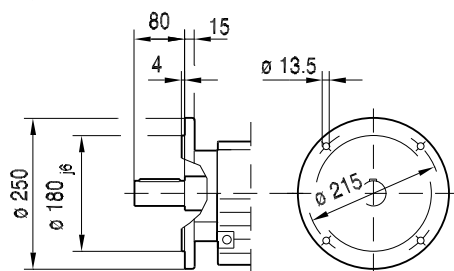
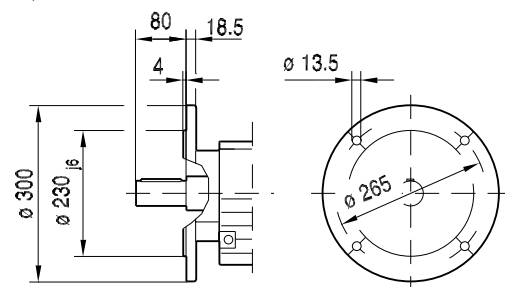
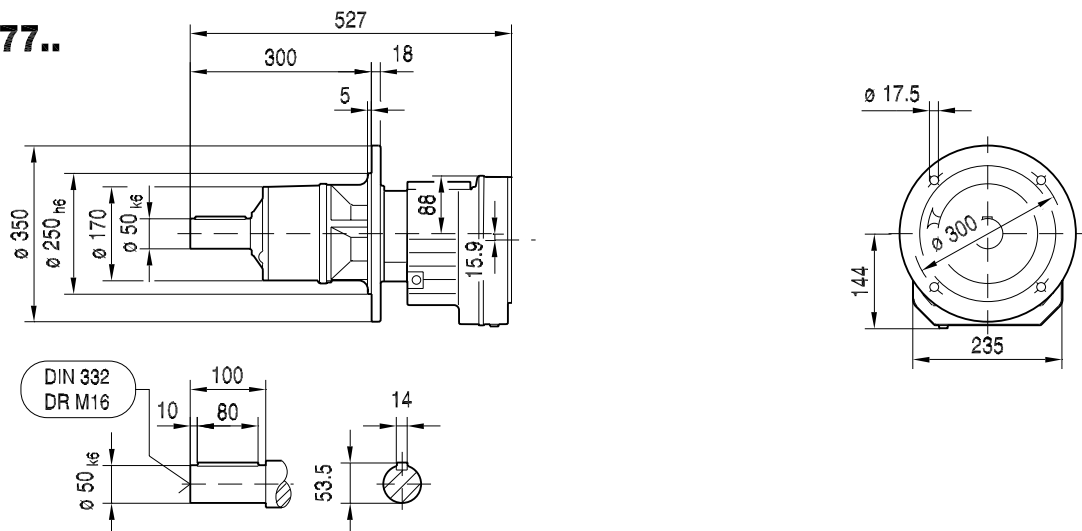
**R77F..**



| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    |
| L      | 479    | 493   | 543    | 561    | 611    | 641    | 645    | 690    | 712    | 772     | 772    |
| LS     | 534    | 557   | 607    | 646    | 696    | 726    | 725    | 770    | 824    | 884     | 884    |
| LB     | 179    | 193   | 243    | 261    | 311    | 341    | 345    | 390    | 412    | 472     | 472    |
| LBS    | 234    | 257   | 307    | 346    | 396    | 426    | 425    | 470    | 524    | 584     | 584    |

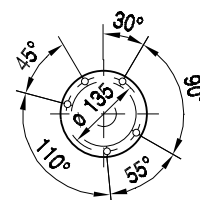
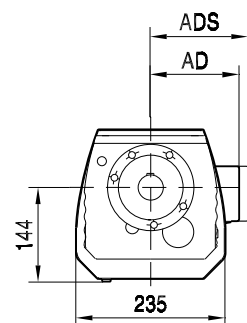
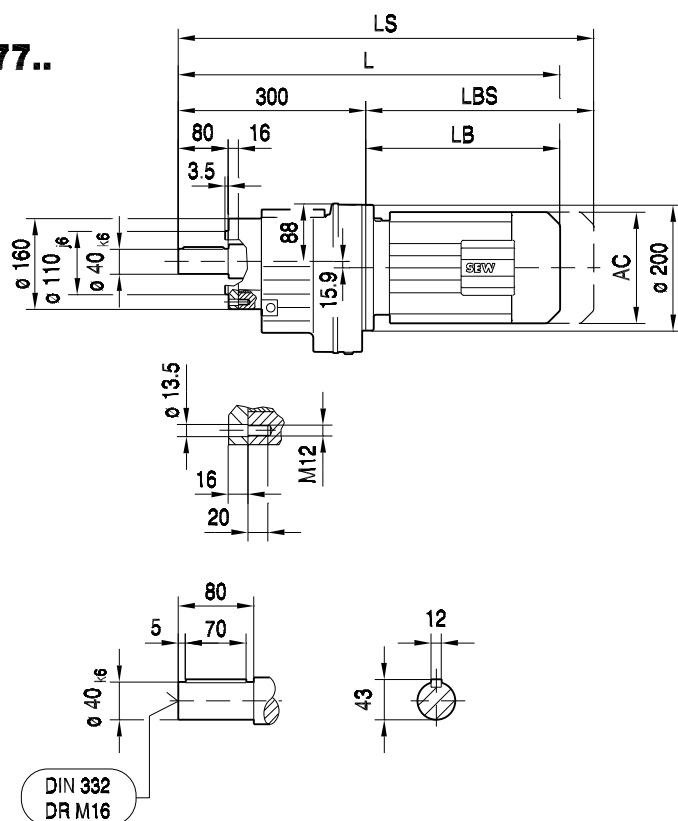


04 020 02 00

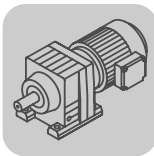
**RF77..** **$\phi 250$**  **$\phi 300$** **RM77..**

| (→ 11) | DR63.. | DT71D | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC     | 132    | 145   | 145    | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    |
| AD     | 105    | 122   | 122    | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    |
| ADS    | 105    | 127   | 127    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    |
| L      | 479    | 493   | 543    | 561    | 611    | 641    | 645    | 690    | 712    | 772     | 772    |
| LS     | 534    | 557   | 607    | 646    | 696    | 726    | 725    | 770    | 824    | 884     | 884    |
| LB     | 179    | 193   | 243    | 261    | 311    | 341    | 345    | 390    | 412    | 472     | 472    |
| LBS    | 234    | 257   | 307    | 346    | 396    | 426    | 425    | 470    | 524    | 584     | 584    |

## RZ77..



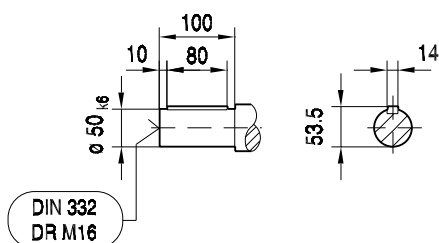
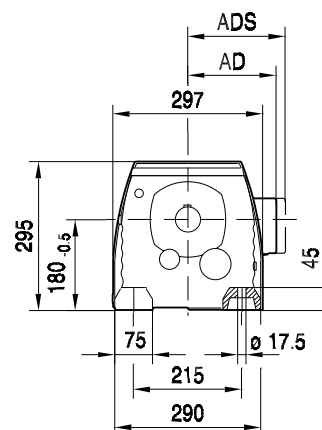
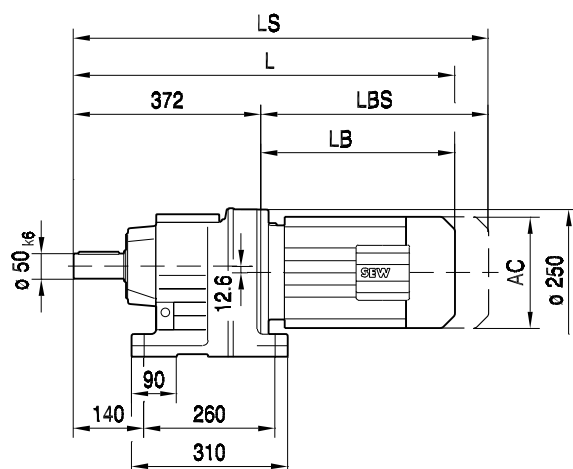
– GM2006



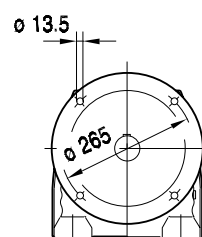
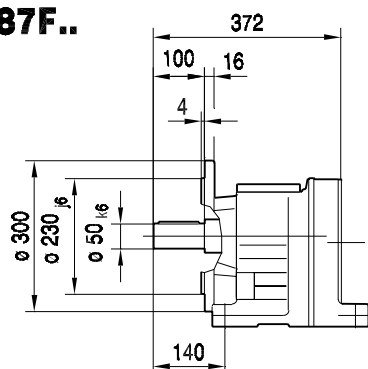
# R..DR/DT/DV R.. [mm]

04 008 03 00

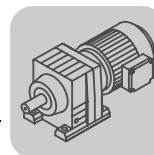
## R87..



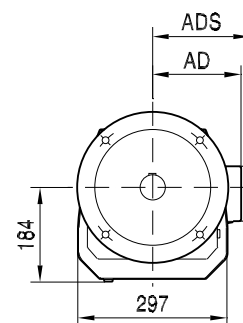
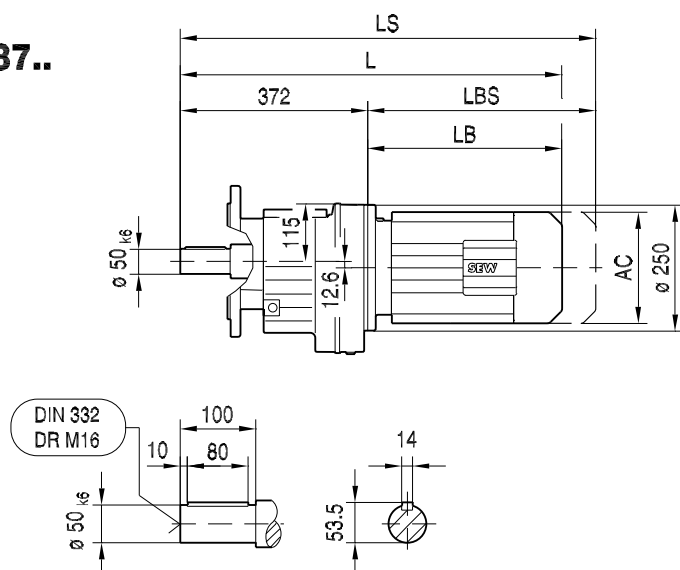
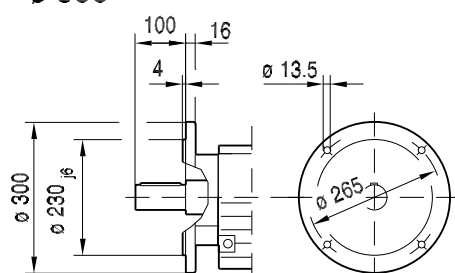
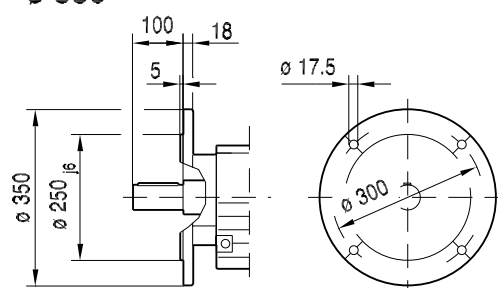
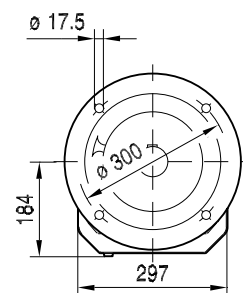
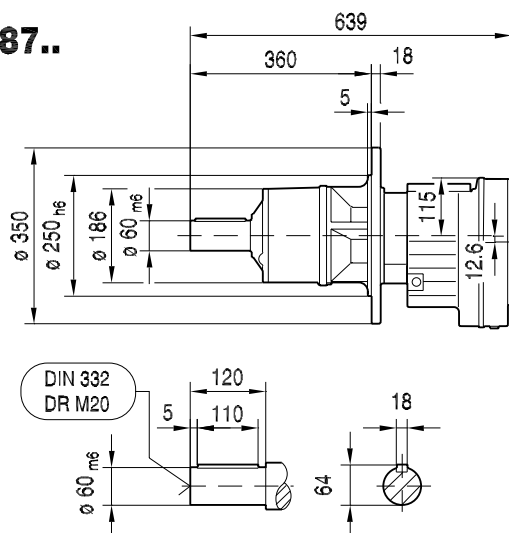
## R87F..



| (→ 11) | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC     | 145    | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     |
| AD     | 122    | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     |
| ADS    | 127    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     |
| L      | 610    | 629    | 679    | 709    | 712    | 757    | 779    | 839     | 839    | 886    | 958     |
| LS     | 674    | 714    | 764    | 794    | 792    | 837    | 891    | 951     | 951    | 1042   | 1114    |
| LB     | 238    | 257    | 307    | 337    | 340    | 385    | 407    | 467     | 467    | 514    | 586     |
| LBS    | 302    | 342    | 392    | 422    | 420    | 465    | 519    | 579     | 579    | 670    | 742     |

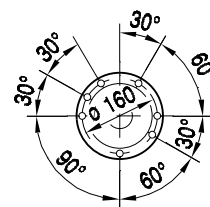
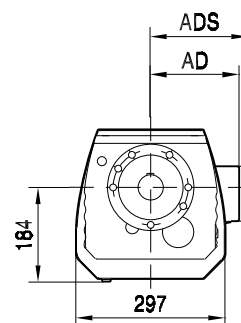
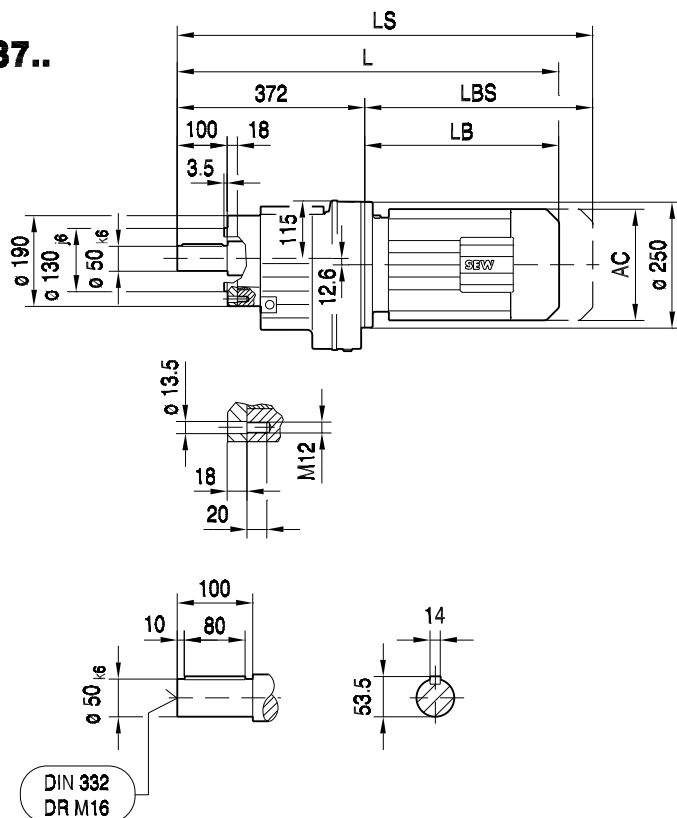


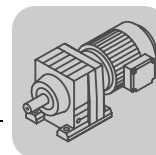
04 021 03 00

**RF87..**

**ø 300**

**ø 350**

**RM87..**


| (→ 11) | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC     | 145    | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     |
| AD     | 122    | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     |
| ADS    | 127    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     |
| L      | 610    | 629    | 679    | 709    | 712    | 757    | 779    | 839     | 839    | 886    | 958     |
| LS     | 674    | 714    | 764    | 794    | 792    | 837    | 891    | 951     | 951    | 1042   | 1114    |
| LB     | 238    | 257    | 307    | 337    | 340    | 385    | 407    | 467     | 467    | 514    | 586     |
| LBS    | 302    | 342    | 392    | 422    | 420    | 465    | 519    | 579     | 579    | 670    | 742     |

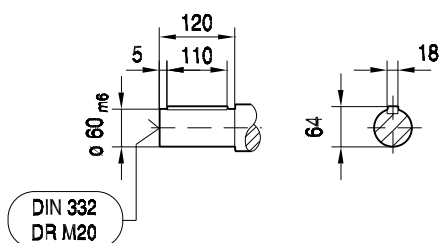
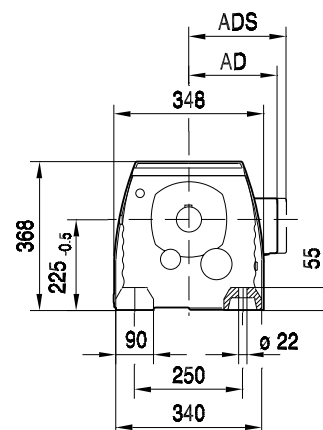
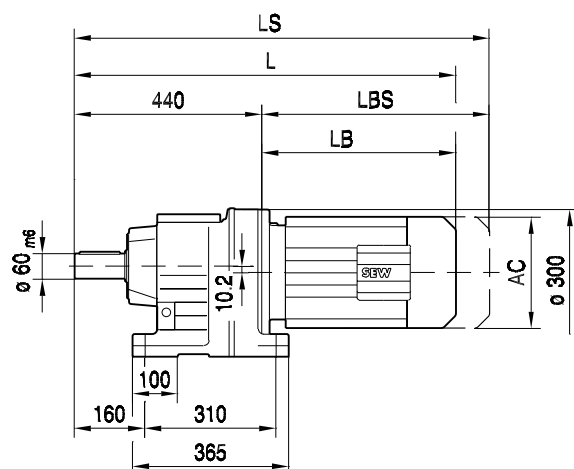
## RZ87..

156

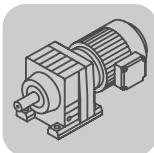


04 009 03 00

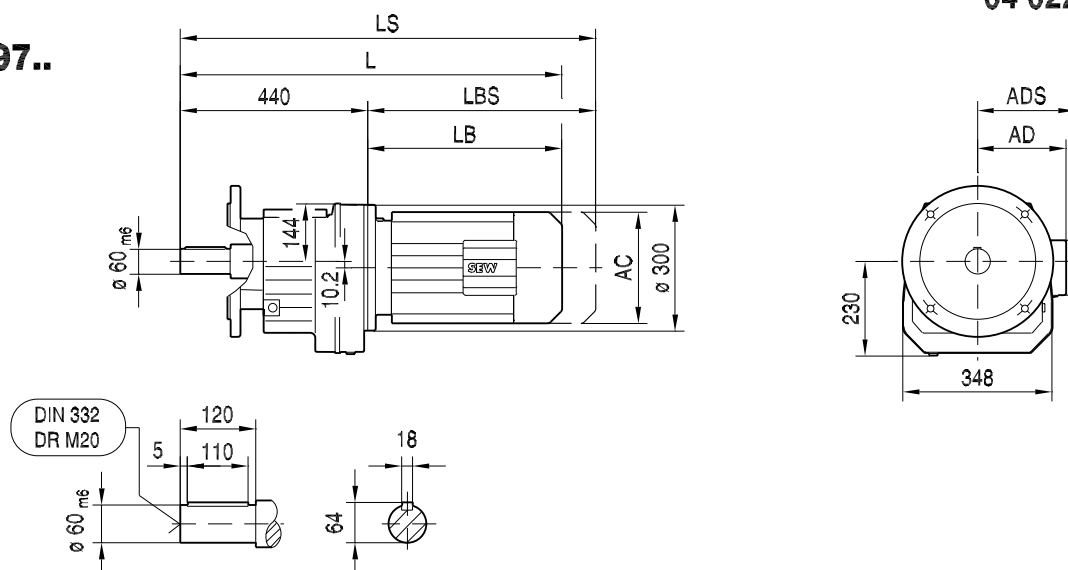
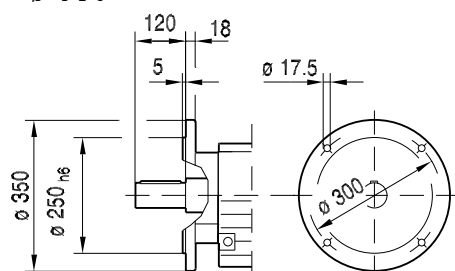
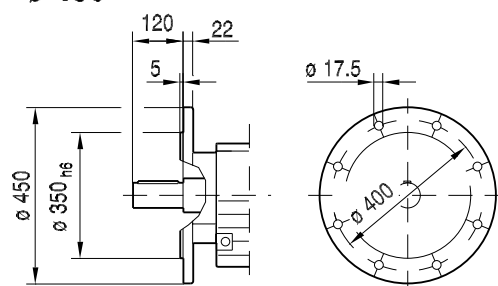
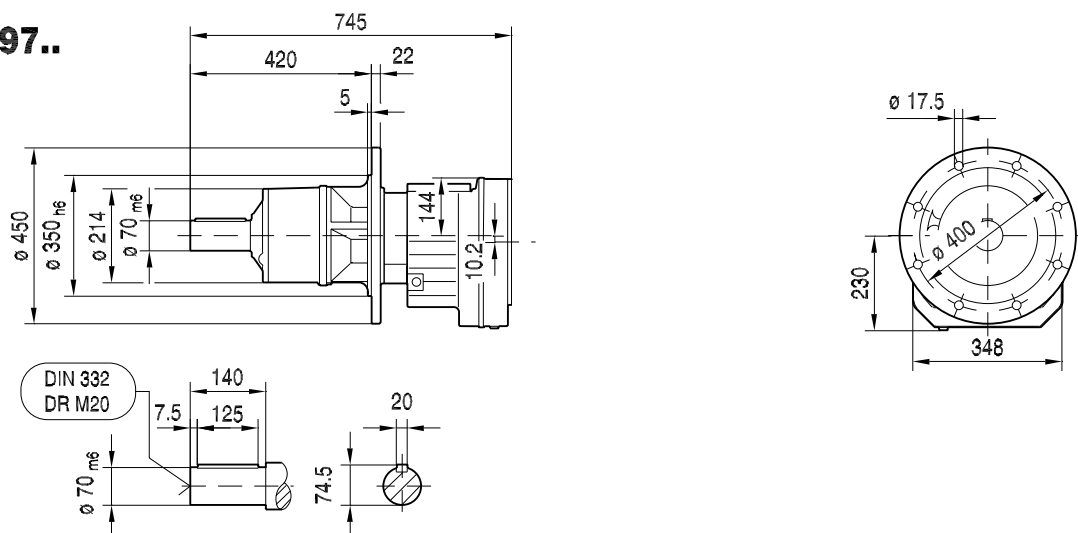
**R97..**



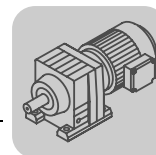
| (→ 11) | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC     | 145    | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     | 394     |
| AD     | 122    | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     | 285     |
| ADS    | 127    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     | 285     |
| L      | 671    | 691    | 741    | 771    | 775    | 820    | 842    | 902     | 902    | 949    | 1021    | 1069    |
| LS     | 735    | 776    | 826    | 856    | 855    | 900    | 954    | 1014    | 1014   | 1105   | 1177    | 1225    |
| LB     | 231    | 251    | 301    | 331    | 335    | 380    | 402    | 462     | 462    | 509    | 581     | 629     |
| LBS    | 295    | 336    | 386    | 416    | 415    | 460    | 514    | 574     | 574    | 665    | 737     | 785     |



04 022 03 00

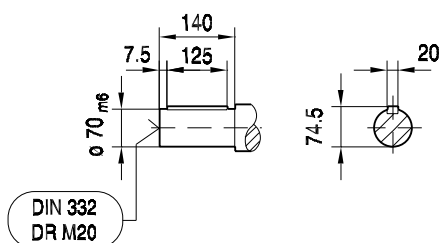
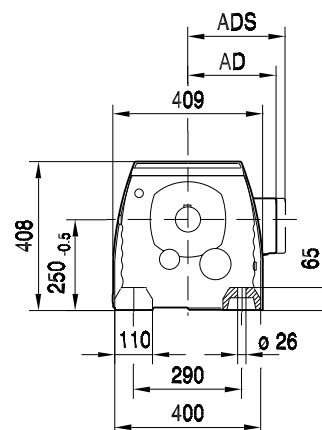
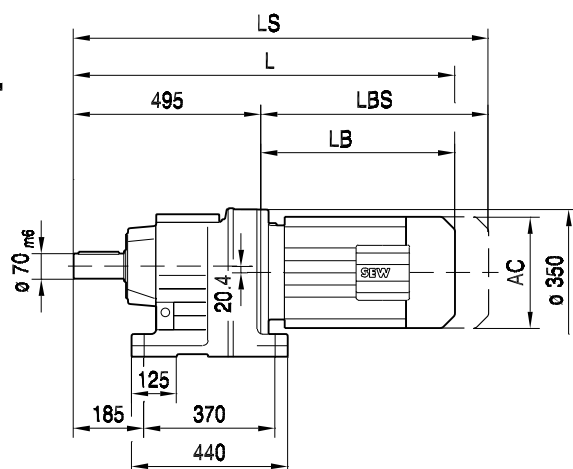
**RF97..** **$\varnothing 350$**  **$\varnothing 450$** **RM97..**

| (→ 11) | DT80.. | DT90.. | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC     | 145    | 197    | 197    | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     | 394     |
| AD     | 122    | 154    | 166    | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     | 285     |
| ADS    | 127    | 161    | 166    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     | 285     |
| L      | 671    | 691    | 741    | 771    | 775    | 820    | 842    | 902     | 902    | 949    | 1021    | 1069    |
| LS     | 735    | 776    | 826    | 856    | 855    | 900    | 954    | 1014    | 1014   | 1105   | 1177    | 1225    |
| LB     | 231    | 251    | 301    | 331    | 335    | 380    | 402    | 462     | 462    | 509    | 581     | 629     |
| LBS    | 295    | 336    | 386    | 416    | 415    | 460    | 514    | 574     | 574    | 665    | 737     | 785     |

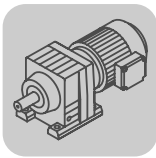


04 010 03 00

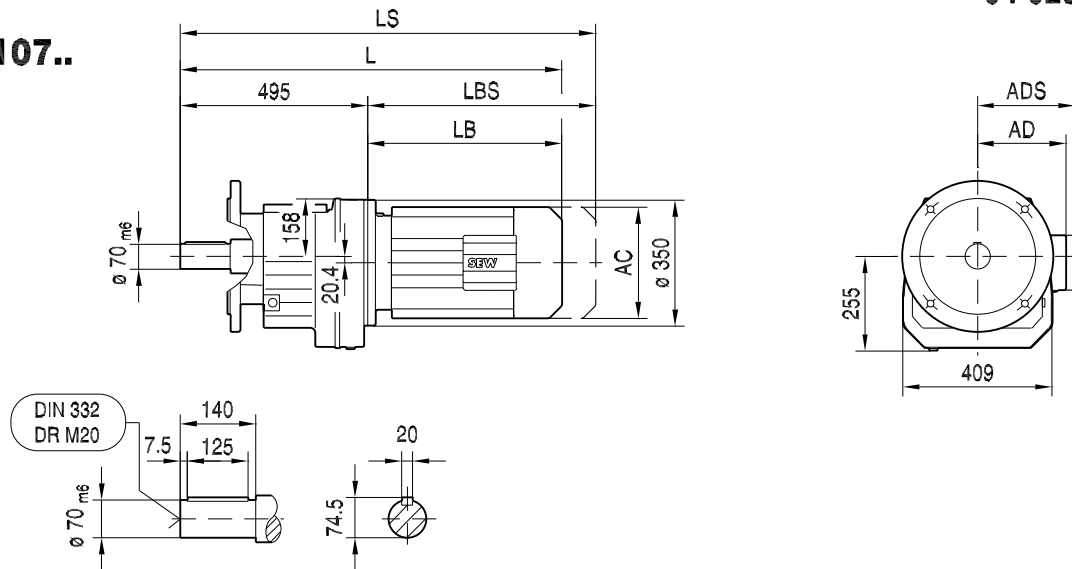
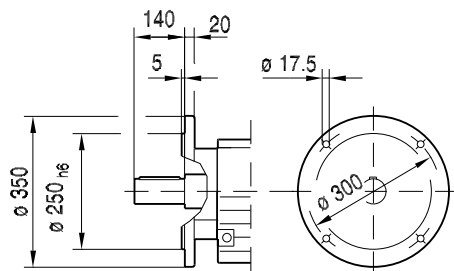
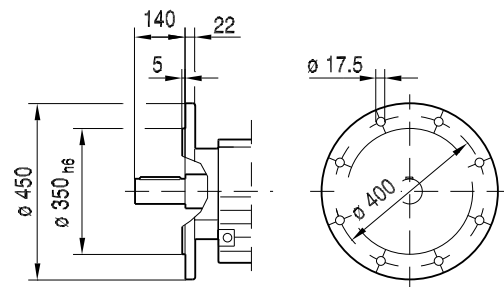
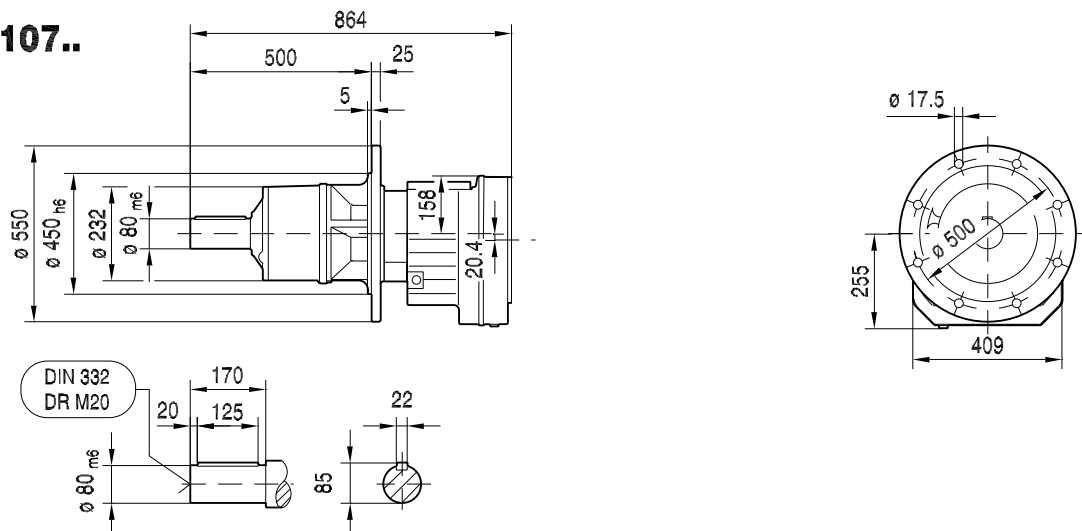
**R107..**



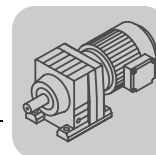
| (→ 11) | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC     | 197    | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     | 394     | 394     |
| AD     | 166    | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |
| ADS    | 166    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |
| L      | 790    | 820    | 824    | 869    | 891    | 951     | 951    | 998    | 1070    | 1118    | 1200    |
| LS     | 875    | 905    | 904    | 949    | 1003   | 1063    | 1063   | 1154   | 1226    | 1274    | 1356    |
| LB     | 295    | 325    | 329    | 374    | 396    | 456     | 456    | 503    | 575     | 623     | 705     |
| LBS    | 380    | 410    | 409    | 454    | 508    | 568     | 568    | 659    | 731     | 779     | 861     |



04 023 03 00

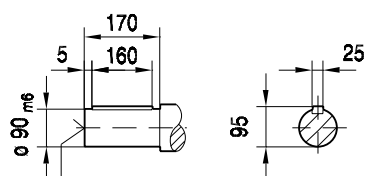
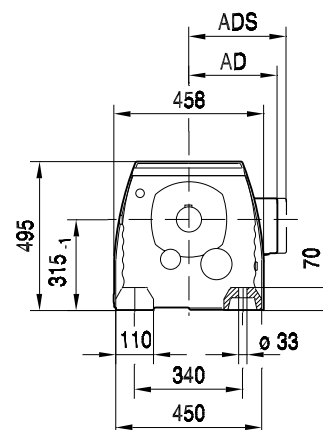
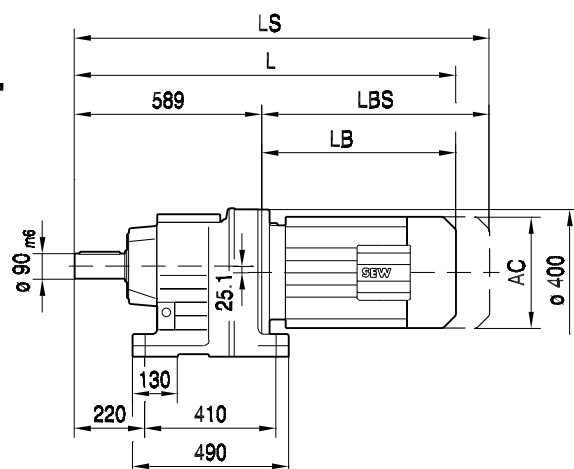
**RF107..****ø 350****ø 450****RM107..**

| (→ 11) | DV100M | DV100L | DV112M | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC     | 197    | 197    | 221    | 221    | 275    | 275     | 275    | 331    | 331     | 394     | 394     |
| AD     | 166    | 166    | 179    | 179    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |
| ADS    | 166    | 166    | 182    | 182    | 230    | 230     | 230    | 258    | 258     | 285     | 289     |
| L      | 790    | 820    | 824    | 869    | 891    | 951     | 951    | 998    | 1070    | 1118    | 1200    |
| LS     | 875    | 905    | 904    | 949    | 1003   | 1063    | 1063   | 1154   | 1226    | 1274    | 1356    |
| LB     | 295    | 325    | 329    | 374    | 396    | 456     | 456    | 503    | 575     | 623     | 705     |
| LBS    | 380    | 410    | 409    | 454    | 508    | 568     | 568    | 659    | 731     | 779     | 861     |



04 011 03 00

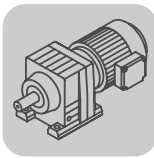
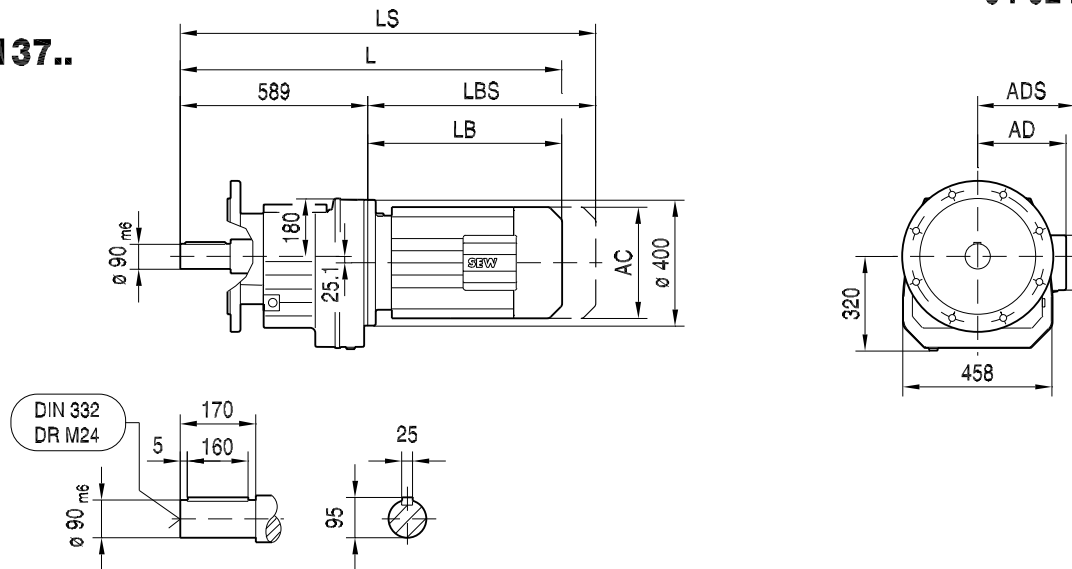
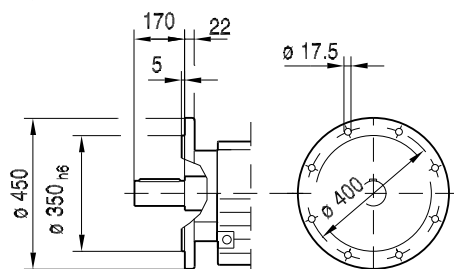
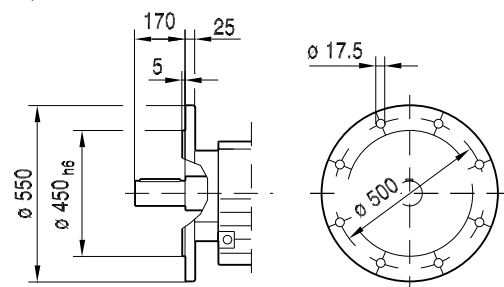
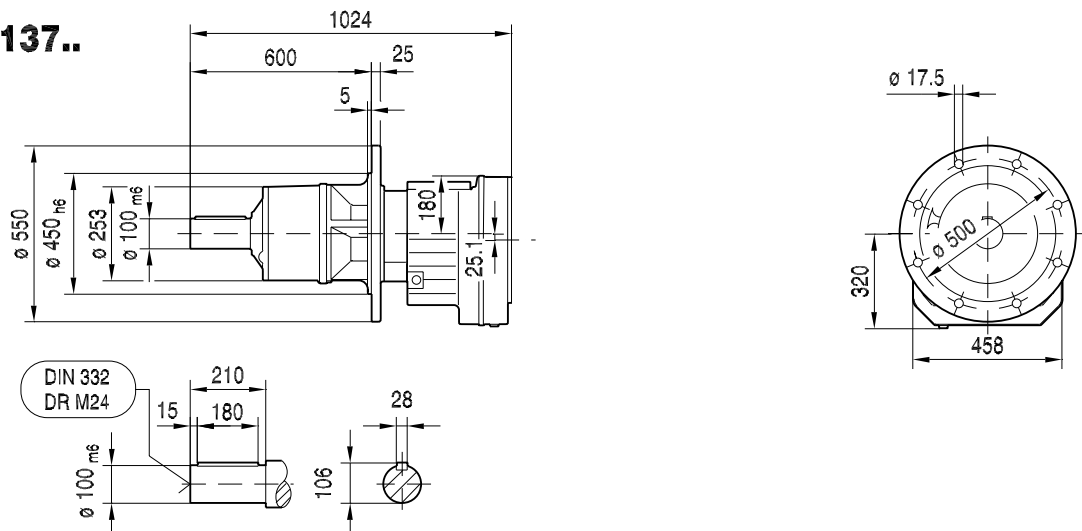
**R137..**



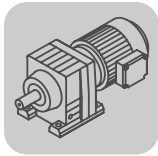
DIN 332  
DR M24

3

| (→ 11) | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. | DV250M |  |  |
|--------|--------|--------|---------|--------|--------|---------|---------|---------|--------|--|--|
| AC     | 221    | 275    | 275     | 275    | 331    | 331     | 394     | 394     | 510    |  |  |
| AD     | 179    | 230    | 230     | 230    | 258    | 258     | 285     | 289     | 397    |  |  |
| ADS    | 182    | 230    | 230     | 230    | 258    | 258     | 285     | 289     | 397    |  |  |
| L      | 956    | 978    | 1038    | 1038   | 1085   | 1157    | 1205    | 1287    | 1378   |  |  |
| LS     | 1036   | 1090   | 1150    | 1150   | 1241   | 1313    | 1361    | 1443    | 1563   |  |  |
| LB     | 367    | 389    | 449     | 449    | 496    | 568     | 616     | 698     | 789    |  |  |
| LBS    | 447    | 501    | 561     | 561    | 652    | 724     | 772     | 854     | 974    |  |  |

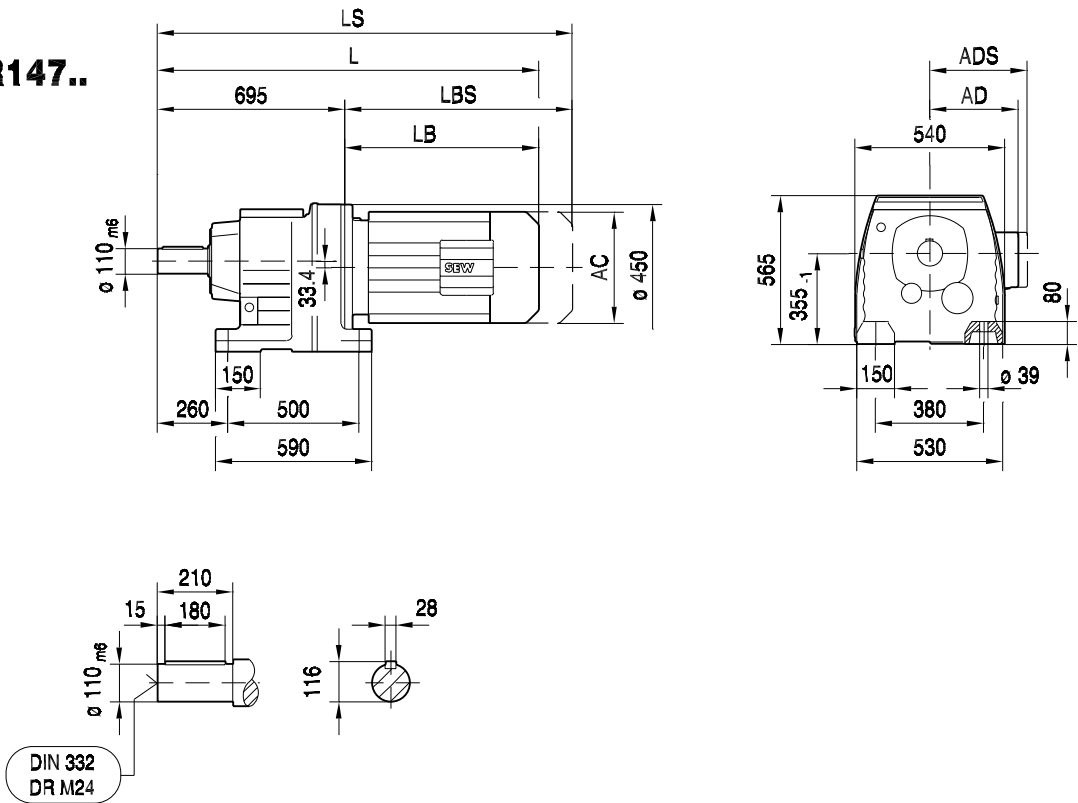

**04 024 03 00**
**RF137..**

 **$\varnothing 450$** 

 **$\varnothing 550$** 

**RM137..**


| (→ 11) | DV132S | DV132M | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. | DV250M |  |  |
|--------|--------|--------|---------|--------|--------|---------|---------|---------|--------|--|--|
| AC     | 221    | 275    | 275     | 275    | 331    | 331     | 394     | 394     | 510    |  |  |
| AD     | 179    | 230    | 230     | 230    | 258    | 258     | 285     | 289     | 397    |  |  |
| ADS    | 182    | 230    | 230     | 230    | 258    | 258     | 285     | 289     | 397    |  |  |
| L      | 956    | 978    | 1038    | 1038   | 1085   | 1157    | 1205    | 1287    | 1378   |  |  |
| LS     | 1036   | 1090   | 1150    | 1150   | 1241   | 1313    | 1361    | 1443    | 1563   |  |  |
| LB     | 367    | 389    | 449     | 449    | 496    | 568     | 616     | 698     | 789    |  |  |
| LBS    | 447    | 501    | 561     | 561    | 652    | 724     | 772     | 854     | 974    |  |  |



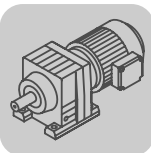
04 012 03 00

R147..

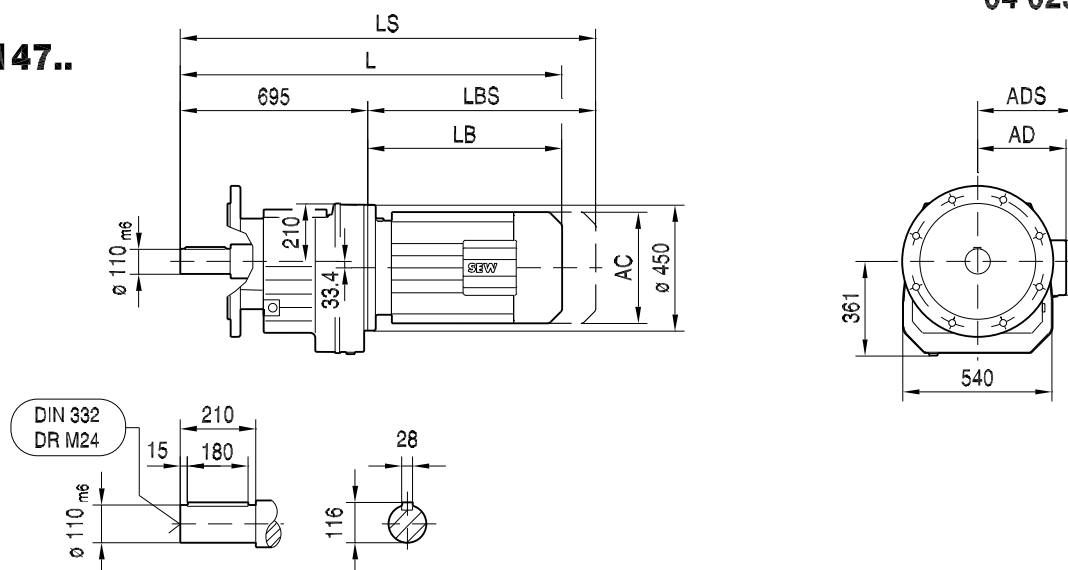
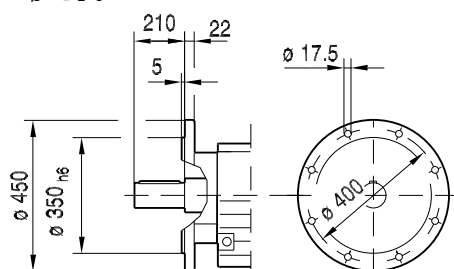
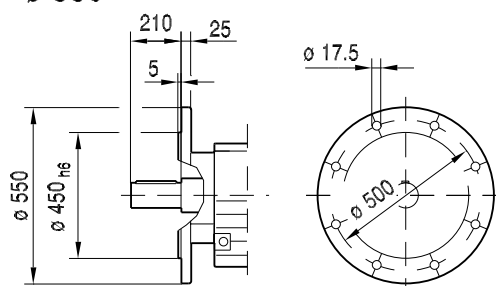
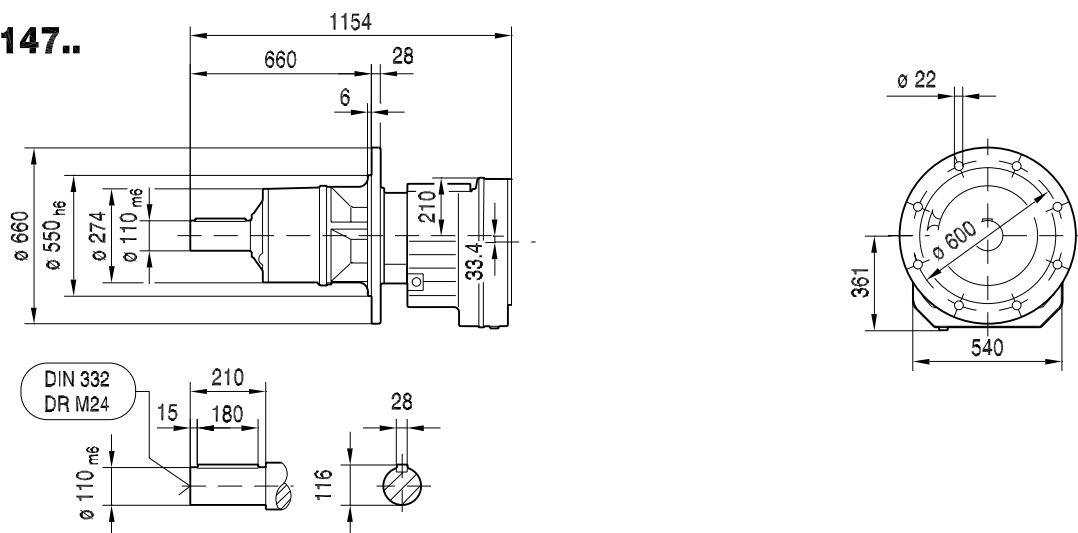


3

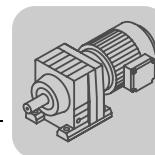
| (→ 11) | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. | DV250M | DV280.. |  |  |  |
|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|--|
| AC     | 275     | 275    | 331    | 331     | 394     | 394     | 510    | 510     |  |  |  |
| AD     | 230     | 230    | 258    | 258     | 285     | 289     | 397    | 397     |  |  |  |
| ADS    | 230     | 230    | 258    | 258     | 285     | 289     | 397    | 397     |  |  |  |
| L      | 1136    | 1136   | 1183   | 1255    | 1303    | 1385    | 1475   | 1475    |  |  |  |
| LS     | 1248    | 1248   | 1339   | 1411    | 1459    | 1541    | 1660   | 1660    |  |  |  |
| LB     | 441     | 441    | 488    | 560     | 608     | 690     | 780    | 780     |  |  |  |
| LBS    | 553     | 553    | 644    | 716     | 764     | 846     | 965    | 965     |  |  |  |



04 025 03 00

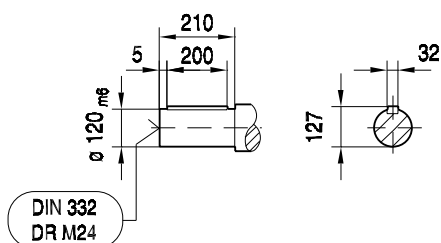
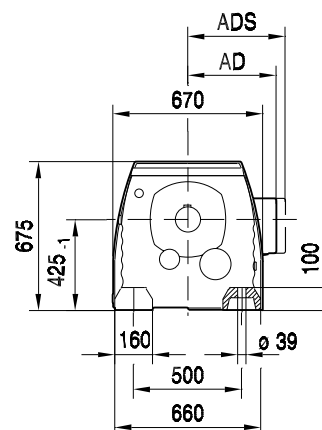
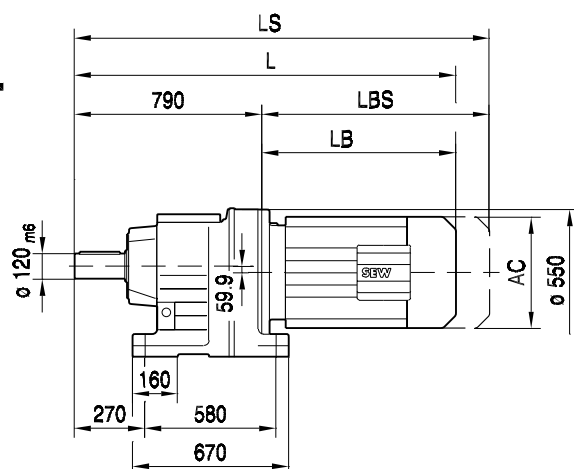
**RF147..****ø 450****ø 550****RM147..**

| (→ 11) | DV132ML | DV160M | DV160L | DV180.. | DV200.. | DV225.. | DV250M | DV280.. |  |  |  |
|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|--|
| AC     | 275     | 275    | 331    | 331     | 394     | 394     | 510    | 510     |  |  |  |
| AD     | 230     | 230    | 258    | 258     | 285     | 289     | 397    | 397     |  |  |  |
| ADS    | 230     | 230    | 258    | 258     | 285     | 289     | 397    | 397     |  |  |  |
| L      | 1136    | 1136   | 1183   | 1255    | 1303    | 1385    | 1475   | 1475    |  |  |  |
| LS     | 1248    | 1248   | 1339   | 1411    | 1459    | 1541    | 1660   | 1660    |  |  |  |
| LB     | 441     | 441    | 488    | 560     | 608     | 690     | 780    | 780     |  |  |  |
| LBS    | 553     | 553    | 644    | 716     | 764     | 846     | 965    | 965     |  |  |  |

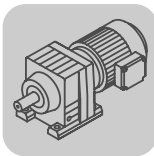


04 013 03 00

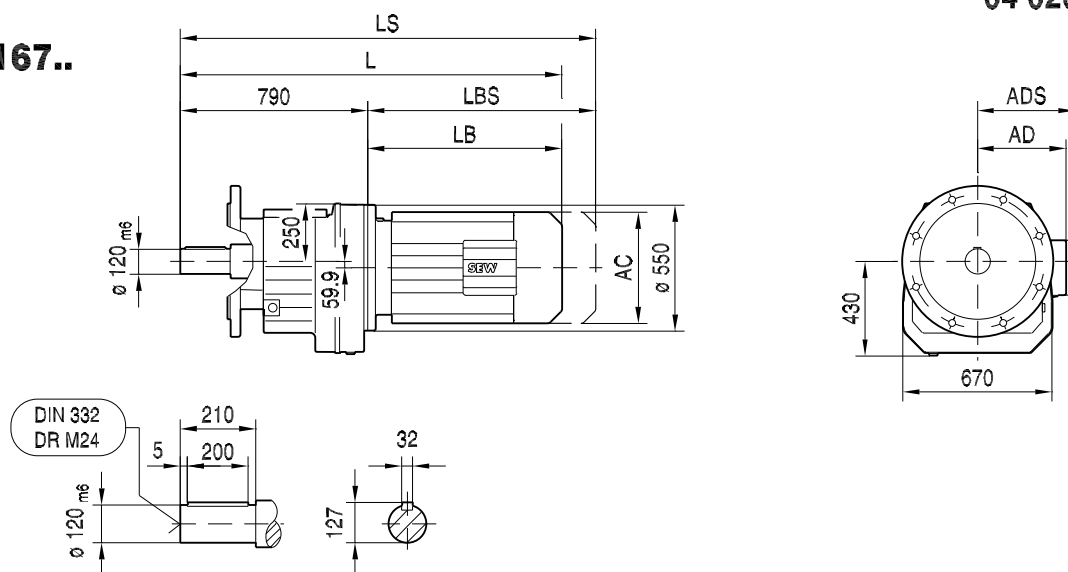
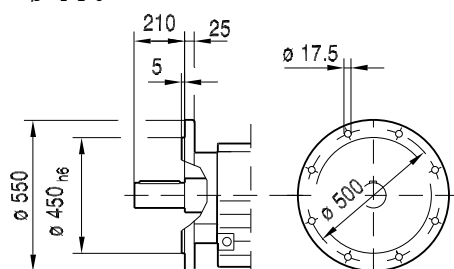
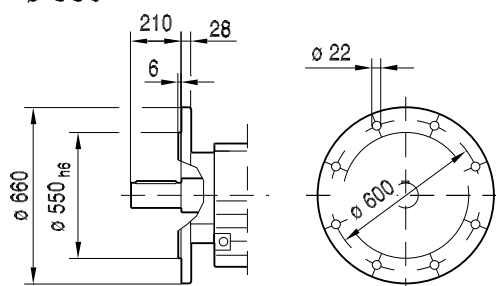
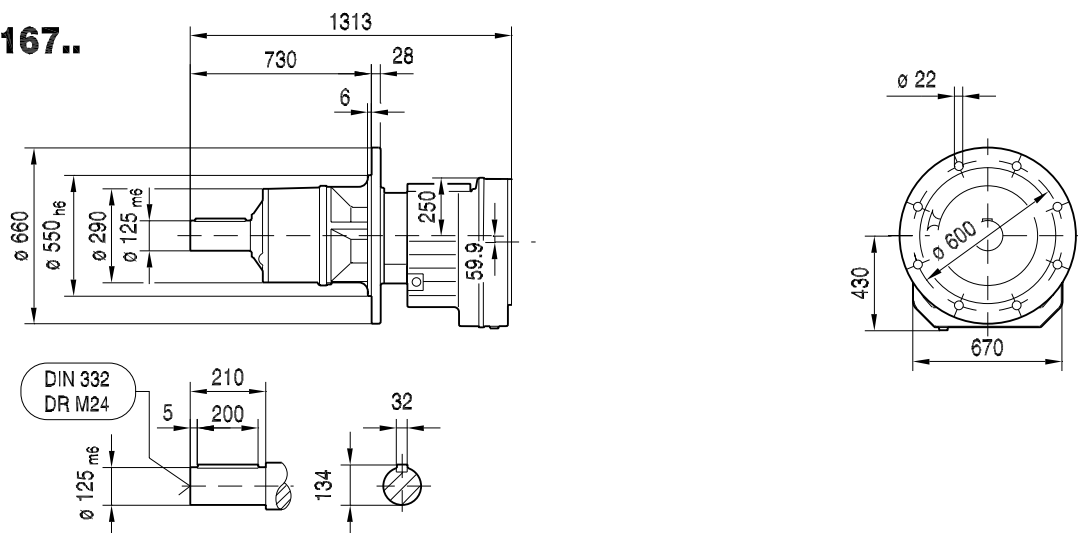
**R167..**



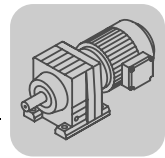
| (→ 11) | DV160M | DV160L | DV180.. | DV200.. | DV225.. | DV250M | DV280.. | D315S | D315M |  |  |
|--------|--------|--------|---------|---------|---------|--------|---------|-------|-------|--|--|
| AC     | 275    | 331    | 331     | 394     | 394     | 510    | 510     | 612   | 612   |  |  |
| AD     | 230    | 258    | 258     | 285     | 289     | 397    | 397     | 430   | 430   |  |  |
| ADS    | 230    | 258    | 258     | 285     | 289     | 397    | 397     | 430   | 430   |  |  |
| L      | 1223   | 1270   | 1342    | 1390    | 1472    | 1561   | 1561    | 1789  | 1840  |  |  |
| LS     | 1335   | 1426   | 1498    | 1546    | 1628    | 1746   | 1746    | 2000  | 2051  |  |  |
| LB     | 433    | 480    | 552     | 600     | 682     | 771    | 771     | 999   | 1050  |  |  |
| LBS    | 545    | 636    | 708     | 756     | 838     | 956    | 956     | 1210  | 1261  |  |  |



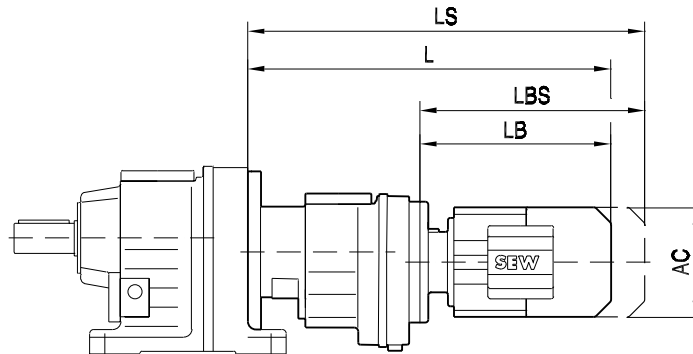
04 026 03 00

**RF167..** **$\varnothing 550$**  **$\varnothing 660$** **RM167..**

| (→ 11) | DV160M | DV160L | DV180.. | DV200.. | DV225.. | DV250M | DV280.. | D315S | D315M |  |  |
|--------|--------|--------|---------|---------|---------|--------|---------|-------|-------|--|--|
| AC     | 275    | 331    | 331     | 394     | 394     | 510    | 510     | 612   | 612   |  |  |
| AD     | 230    | 258    | 258     | 285     | 289     | 397    | 397     | 430   | 430   |  |  |
| ADS    | 230    | 258    | 258     | 285     | 289     | 397    | 397     | 430   | 430   |  |  |
| L      | 1223   | 1270   | 1342    | 1390    | 1472    | 1561   | 1561    | 1789  | 1840  |  |  |
| LS     | 1335   | 1426   | 1498    | 1546    | 1628    | 1746   | 1746    | 2000  | 2051  |  |  |
| LB     | 433    | 480    | 552     | 600     | 682     | 771    | 771     | 999   | 1050  |  |  |
| LBS    | 545    | 636    | 708     | 756     | 838     | 956    | 956     | 1210  | 1261  |  |  |



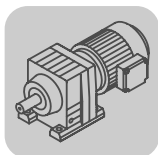
04 039 02 00



3

| (→ 11)                           |         | AC  | L   | LS  | LB  | LBS |
|----------------------------------|---------|-----|-----|-----|-----|-----|
| R..27R17<br>R..37R17             | DR63..  | 132 | 324 | 379 | 149 | 204 |
|                                  | DT71D   | 145 | 339 | 403 | 164 | 228 |
|                                  | DT80..  | 145 | 389 | 453 | 214 | 278 |
| R..47R37<br>R..57R37<br>R..67R37 | DR63..  | 132 | 356 | 411 | 191 | 246 |
|                                  | DT71D   | 145 | 371 | 435 | 206 | 270 |
|                                  | DT80..  | 145 | 421 | 485 | 256 | 320 |
| R..77R37                         | DR63..  | 132 | 348 | 403 | 191 | 246 |
|                                  | DT71D   | 145 | 363 | 427 | 206 | 270 |
|                                  | DT80..  | 145 | 413 | 477 | 256 | 320 |
|                                  | DT90..  | 197 | 433 | 518 | 276 | 361 |
| R..87R57                         | DR63..  | 132 | 401 | 456 | 185 | 240 |
|                                  | DT71D   | 145 | 415 | 479 | 199 | 263 |
|                                  | DT80..  | 145 | 465 | 529 | 249 | 313 |
|                                  | DT90..  | 197 | 485 | 570 | 269 | 354 |
| R..97R57                         | DR63..  | 132 | 396 | 451 | 185 | 240 |
|                                  | DT71D   | 145 | 410 | 474 | 199 | 263 |
|                                  | DT80..  | 145 | 460 | 524 | 249 | 313 |
|                                  | DT90..  | 197 | 480 | 565 | 269 | 354 |
|                                  | DV100M  | 197 | 530 | 615 | 319 | 404 |
|                                  | DV100L  | 197 | 560 | 645 | 349 | 434 |
| R..107R77                        | DR63..  | 132 | 426 | 481 | 179 | 234 |
|                                  | DT71D   | 145 | 440 | 504 | 193 | 257 |
|                                  | DT80..  | 145 | 490 | 554 | 243 | 307 |
|                                  | DT90..  | 197 | 508 | 593 | 261 | 346 |
|                                  | DV100M  | 197 | 558 | 643 | 311 | 396 |
|                                  | DV100L  | 197 | 588 | 673 | 341 | 426 |
|                                  | DV112M  | 221 | 592 | 672 | 345 | 425 |
|                                  | DV132S  | 221 | 637 | 717 | 390 | 470 |
|                                  | DV132M  | 275 | 659 | 771 | 412 | 524 |
|                                  | DV132ML | 275 | 719 | 831 | 472 | 584 |
|                                  | DV160M  | 275 | 719 | 831 | 472 | 584 |
|                                  | DV160L  | 275 | 719 | 831 | 472 | 584 |
| R..137R77                        | DR63..  | 132 | 419 | 474 | 179 | 234 |
|                                  | DT71D   | 145 | 433 | 497 | 193 | 257 |
|                                  | DT80..  | 145 | 483 | 547 | 243 | 307 |
|                                  | DT90..  | 197 | 501 | 586 | 261 | 346 |
|                                  | DV100M  | 197 | 551 | 636 | 311 | 396 |
|                                  | DV100L  | 197 | 581 | 666 | 341 | 426 |
|                                  | DV112M  | 221 | 585 | 665 | 345 | 425 |
|                                  | DV132S  | 221 | 630 | 710 | 390 | 470 |
|                                  | DV132M  | 275 | 652 | 764 | 412 | 524 |
|                                  | DV132ML | 275 | 712 | 824 | 472 | 584 |
|                                  | DV160M  | 275 | 712 | 824 | 472 | 584 |

| (→ 11)     |         | AC  | L    | LS   | LB  | LBS |
|------------|---------|-----|------|------|-----|-----|
| R..147R77  | DR63..  | 132 | 411  | 466  | 179 | 234 |
|            | DT71D   | 145 | 425  | 489  | 193 | 257 |
|            | DT80..  | 145 | 475  | 539  | 243 | 307 |
|            | DT90..  | 197 | 493  | 578  | 261 | 346 |
|            | DV100M  | 197 | 543  | 628  | 311 | 396 |
|            | DV100L  | 197 | 573  | 658  | 341 | 426 |
|            | DV112M  | 221 | 577  | 657  | 345 | 425 |
|            | DV132S  | 221 | 622  | 702  | 390 | 470 |
|            | DV132M  | 275 | 644  | 756  | 412 | 524 |
|            | DV132ML | 275 | 704  | 816  | 472 | 584 |
| R..147R87  | DT90..  | 197 | 537  | 622  | 257 | 342 |
|            | DV100M  | 197 | 587  | 672  | 307 | 392 |
|            | DV100L  | 197 | 617  | 702  | 337 | 422 |
|            | DV112M  | 221 | 620  | 700  | 340 | 420 |
|            | DV132S  | 221 | 665  | 745  | 385 | 465 |
|            | DV132M  | 275 | 687  | 799  | 407 | 519 |
|            | DV132ML | 275 | 747  | 859  | 467 | 579 |
|            | DV160M  | 275 | 747  | 859  | 467 | 579 |
|            | DV160L  | 331 | 794  | 950  | 514 | 670 |
|            | DV180.. | 331 | 866  | 1022 | 586 | 742 |
| R..167R97  | DT80..  | 145 | 556  | 620  | 231 | 295 |
|            | DT90..  | 197 | 576  | 661  | 251 | 336 |
|            | DV100M  | 197 | 626  | 711  | 301 | 386 |
|            | DV100L  | 197 | 656  | 741  | 331 | 416 |
|            | DV112M  | 221 | 660  | 740  | 335 | 415 |
|            | DV132S  | 221 | 705  | 785  | 380 | 460 |
|            | DV132M  | 275 | 727  | 839  | 402 | 514 |
|            | DV132ML | 275 | 787  | 899  | 462 | 574 |
|            | DV160M  | 275 | 787  | 899  | 462 | 574 |
|            | DV160L  | 331 | 834  | 990  | 509 | 665 |
| R..167R107 | DV180.. | 331 | 906  | 1062 | 581 | 737 |
|            | DV100M  | 197 | 677  | 762  | 295 | 380 |
|            | DV100L  | 197 | 707  | 792  | 325 | 410 |
|            | DV112M  | 221 | 711  | 791  | 329 | 409 |
|            | DV132S  | 221 | 756  | 836  | 374 | 454 |
|            | DV132M  | 275 | 778  | 890  | 396 | 508 |
|            | DV132ML | 275 | 838  | 950  | 456 | 568 |
|            | DV160M  | 275 | 838  | 950  | 456 | 568 |
|            | DV160L  | 331 | 885  | 1041 | 503 | 659 |
|            | DV180.. | 331 | 957  | 1113 | 575 | 731 |
|            | DV200.. | 394 | 1005 | 1161 | 623 | 779 |
|            | DV225.. | 394 | 1087 | 1243 | 705 | 861 |



**R..DR/DT/DV**  
R.. [mm]

---