



**SEW**  
**EURODRIVE**

## Addendum to the Catalog



### **DRN.. Gearmotors (IE3)**

Torque Increase of Gear Units W..10, W..20, W..30



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## 1 Torque increase of gear units W..10, W..20, W..30

SPIROPLAN® gear units have proven to be a reliable, wear-free, efficient, low-noise, and economic solution. Their compact design and aluminum housing as well as low weight makes them ideally suited for confined spaces. Energy efficiency class IE3 is achieved in a cost-efficient manner in combination with the small DRN.. motors (DRN63, DRN71 and DRN80) from SEW-EURODRIVE.

New calculation methods, which have been approved and confirmed in extensive and intensive test procedures, and the utilization of new lubricants have increased the permitted torques of W10, W20, and W30 gear units by up to 115%. The power reserves of the gear units increase as a result. This means that now also smaller gear units can be used in some applications where this was not possible before.

This addendum to the catalog informs about geometrically possible combinations, selection tables, and dimension sheets for W10, W20, and W30 gear units with increased torque.

### 1.1 Overview of technical data

|                       | Unit | Size         |              |              |
|-----------------------|------|--------------|--------------|--------------|
|                       |      | W..10        | W..20        | W..30        |
| Gear unit ratio       |      | 6.75 – 75.00 | 6.57 – 75.00 | 6.57 – 75.00 |
| Maximum output torque | Nm   | ≤ 30         | ≤ 45         | ≤ 70         |
| Motor power range     | kW   | 0.09 – 0.55  | 0.12 – 0.75  | 0.12 – 1.1   |

### 1.2 Overview of torque increase

#### W..10

| Gear ratio i | M <sub>a_max</sub> new<br>Nm | Increase<br>% |
|--------------|------------------------------|---------------|
| 6.57         | 19                           | +58           |
| 8.20         | 23                           | +92           |
| 10.25        | 28                           | +115          |
| 14.33        | 24                           | +9            |
| 16.50        | 27                           | +35           |
| 19.50        | 30                           | +20           |
| 27.50        | 27                           | +13           |
| 35.50        | 28                           | +12           |
| 39.00        | 26                           | +4            |

## W..20

| Gear ratio i | $M_{a\_max}$ new<br>Nm | Increase<br>% |
|--------------|------------------------|---------------|
| 6.57         | 24                     | +20           |
| 8.20         | 29                     | +45           |
| 10.25        | 36                     | +44           |
| 14.33        | 45                     | +50           |
| 16.50        | 38                     | +27           |
| 19.50        | 42                     | +20           |

## W..30

| Gear ratio i | $M_{a\_max}$ new<br>Nm | Increase<br>% |
|--------------|------------------------|---------------|
| 6.57         | 62                     | +55           |
| 8.20         | 65                     | +63           |
| 10.25        | 63                     | +26           |
| 14.33        | 69                     | +15           |
| 16.33        | 68                     | +13           |

## 2 Important information on selection tables and dimension drawings

### 2.1 Structure of the combination tables

These tables show geometrically possible combinations of single-speed gear units and AC (brake) motors. Please contact SEW-EURODRIVE for information on pole-changing AC (brake) motors.

The output speed  $n_a$ , the maximum output torque  $M_{amax}$ , the permitted overhung load  $F_{Ra}$  at maximum output torque (valid for foot-mounted gear units with solid shaft), the torsion angle  $\varphi$  (/R), and the gear unit ratio are specified for input speed  $n_e = 1400 \text{ min}^{-1}$  for each combination.

Only if a value is specified for the torsion angle  $\varphi_{(/R)}$ , is the gear unit with this gear unit ratio available with "reduced backlash (/R)" option. The numerical value specifies the rotational clearance of the reduced backlash version in angular minutes ' (tolerance  $\pm 2$  angular minutes).

| W20, n <sub>e</sub> =1400 min <sup>-1</sup>                                          |                         |                      |                        |        |                            |  | 45 Nm      |  |
|--------------------------------------------------------------------------------------|-------------------------|----------------------|------------------------|--------|----------------------------|--|------------|--|
| n <sub>a</sub><br>min <sup>-1</sup>                                                  | M <sub>amax</sub><br>Nm | F <sub>Ra</sub><br>N | φ <sub>(/R)</sub><br>' | i      | DRN                        |  |            |  |
|                                                                                      |                         |                      |                        |        | 63MS<br>63M<br>71MS<br>71M |  | 80M<br>90S |  |
|  1 |                         |                      |                        |        |                            |  |            |  |
| 19                                                                                   | 40                      | 2200                 | -                      | 75.00* |                            |  |            |  |
| 23                                                                                   | 40                      | 2200                 | -                      | 75.00* |                            |  |            |  |

Gear unit ratio:

A value marked with \* indicates a finite gear unit ratio.

No data (-): The reduced backlash option (/R) is not possible for this  $i$  value.  
Numerical value given: Reduced backlash option is possible. The numerical value specifies the rotational clearance of the reduced backlash version in angular minutes with a tolerance of  $\pm 2$  angular minutes.

Permitted overhung load at maximum output torque  $M_{amax}$

The value refers to the foot-mounted gear unit design with solid shaft

Maximum output torque of the gear unit

Output speed of the gear unit

 Combination with the motor in the header is possible

 Combination with the motor in the header is not possible



1

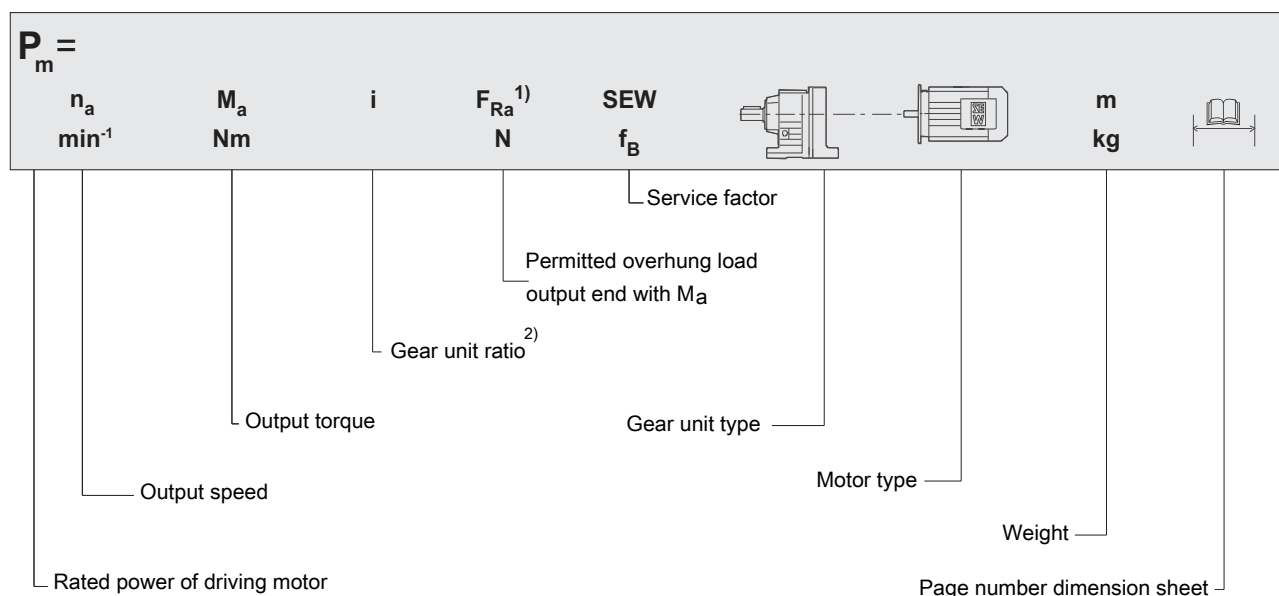
Stages of the gear ratios: SPIROPLAN® gear units W..10 – W..30 are always 1-stage gear units.

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## 2.2 Structure of the selection tables

The following figure shows the structure of the selection tables for gearmotors.



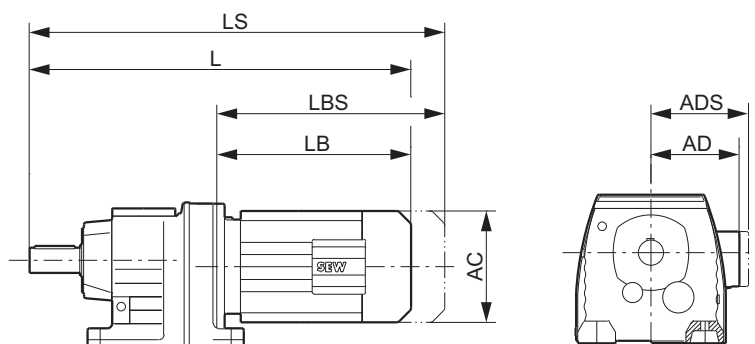
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<sup>1)</sup> Overhung load for foot-mounted gear units with solid shaft; overhung loads for other design types upon request

<sup>2)</sup> A value marked with \* indicates a finite gear unit ratio.

## 2.3 Gearmotor dimension drawings

The dimension drawings of the gearmotors are described below:



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- L Total length of gearmotor
- LS Total length of gearmotor including brake
- LB Length of motor
- LBS Length of brakemotor
- AC Diameter of motor
- AD Center of motor shaft to top part of terminal box
- ADS Center of brakemotor shaft to top part of terminal box

**INFORMATION**

The motor dimensions may change when installing motor options. Refer to the dimension drawings of the motor options in the "AC Motors" catalog.

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**INFORMATION**

The terminal box dimensions in special designs might vary from the standard.

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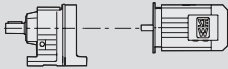
## 3 Geometrically possible combinations W.. DRN..

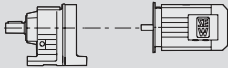
| W10, $n_e=1400 \text{ min}^{-1}$                                                    |                  |               |                      |        | 30 Nm       |                                   |
|-------------------------------------------------------------------------------------|------------------|---------------|----------------------|--------|-------------|-----------------------------------|
| $n_a$<br>$\text{min}^{-1}$                                                          | $M_{amax}$<br>Nm | $F_{Ra}$<br>N | $\varphi_{(R)}$<br>° | i      | DR2S<br>56M | DRN<br>63MS<br>63M<br>71MS<br>71M |
|  1 |                  |               |                      |        |             |                                   |
| 19                                                                                  | 25               | 1800          | -                    | 75.00* |             |                                   |
| 23                                                                                  | 25               | 1800          | -                    | 60.00* |             |                                   |
| 29                                                                                  | 25               | 1800          | -                    | 48.00* |             |                                   |
| 36                                                                                  | 26               | 1800          | -                    | 39.00* |             |                                   |
| 43                                                                                  | 28               | 1800          | -                    | 32.50* |             |                                   |
| 51                                                                                  | 27               | 1800          | -                    | 27.50* |             |                                   |
| 57                                                                                  | 25               | 1800          | -                    | 24.50* |             |                                   |
| 72                                                                                  | 30               | 1800          | -                    | 19.50* |             |                                   |
| 85                                                                                  | 27               | 1800          | -                    | 16.50* |             |                                   |
| 98                                                                                  | 24               | 1800          | -                    | 14.33  |             |                                   |
| 137                                                                                 | 28               | 1800          | -                    | 10.25* |             |                                   |
| 171                                                                                 | 23               | 1730          | -                    | 8.20*  |             |                                   |
| 213                                                                                 | 19               | 1670          | -                    | 6.57   |             |                                   |

| W20, $n_e=1400 \text{ min}^{-1}$                                                      |                  |               |                      |        | 45 Nm                             |             |
|---------------------------------------------------------------------------------------|------------------|---------------|----------------------|--------|-----------------------------------|-------------|
| $n_a$<br>$\text{min}^{-1}$                                                            | $M_{amax}$<br>Nm | $F_{Ra}$<br>N | $\varphi_{(R)}$<br>° | i      | DRN<br>63MS<br>63M<br>71MS<br>71M | DRN<br>80MK |
|  1 |                  |               |                      |        |                                   |             |
| 19                                                                                    | 40               | 2200          | -                    | 75.00* |                                   |             |
| 23                                                                                    | 40               | 2200          | -                    | 60.00* |                                   |             |
| 29                                                                                    | 40               | 2200          | -                    | 48.00* |                                   |             |
| 36                                                                                    | 40               | 2200          | -                    | 39.00* |                                   |             |
| 43                                                                                    | 40               | 2200          | -                    | 32.50* |                                   |             |
| 51                                                                                    | 40               | 2200          | -                    | 27.50* |                                   |             |
| 57                                                                                    | 40               | 2200          | -                    | 24.50* |                                   |             |
| 72                                                                                    | 42               | 2190          | -                    | 19.50* |                                   |             |
| 85                                                                                    | 38               | 2090          | -                    | 16.50* |                                   |             |
| 98                                                                                    | 45               | 1920          | -                    | 14.33  |                                   |             |
| 137                                                                                   | 36               | 1790          | -                    | 10.25* |                                   |             |
| 171                                                                                   | 29               | 1730          | -                    | 8.20*  |                                   |             |
| 213                                                                                   | 24               | 1700          | -                    | 6.57   |                                   |             |

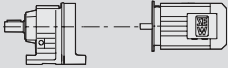
| W30, $n_e=1400 \text{ min}^{-1}$                                                    |                  |               |                      |        | 70 Nm                             |                    |
|-------------------------------------------------------------------------------------|------------------|---------------|----------------------|--------|-----------------------------------|--------------------|
| $n_a$<br>$\text{min}^{-1}$                                                          | $M_{amax}$<br>Nm | $F_{Ra}$<br>N | $\varphi_{(R)}$<br>° | i      | DRN<br>63MS<br>63M<br>71MS<br>71M | DRN<br>80M<br>80MK |
|  1 |                  |               |                      |        |                                   |                    |
| 19                                                                                  | 70               | 3000          | -                    | 75.00* |                                   |                    |
| 23                                                                                  | 70               | 3000          | -                    | 60.00* |                                   |                    |
| 29                                                                                  | 70               | 3000          | -                    | 48.00* |                                   |                    |
| 36                                                                                  | 70               | 3000          | -                    | 39.00* |                                   |                    |
| 43                                                                                  | 70               | 3000          | -                    | 32.50* |                                   |                    |
| 51                                                                                  | 70               | 3000          | -                    | 27.50* |                                   |                    |
| 57                                                                                  | 70               | 3000          | -                    | 24.50* |                                   |                    |
| 72                                                                                  | 70               | 3000          | -                    | 19.50* |                                   |                    |
| 86                                                                                  | 68               | 3000          | -                    | 16.33  |                                   |                    |
| 98                                                                                  | 69               | 3000          | -                    | 14.33  |                                   |                    |
| 137                                                                                 | 63               | 2860          | -                    | 10.25* |                                   |                    |
| 171                                                                                 | 65               | 2610          | -                    | 8.20*  |                                   |                    |
| 213                                                                                 | 62               | 2450          | -                    | 6.57   |                                   |                    |

## 4 Selection tables for W.. DRN.. in kW

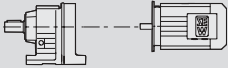
| P <sub>m</sub> = 0.09 kW            |                      |        |                                    |                       |                                                                                    |    |                              |                                  |                          |
|-------------------------------------|----------------------|--------|------------------------------------|-----------------------|------------------------------------------------------------------------------------|----|------------------------------|----------------------------------|--------------------------|
| n <sub>a</sub><br>min <sup>-1</sup> | M <sub>a</sub><br>Nm | i      | F <sub>Ra</sub> <sup>1)</sup><br>N | SEW<br>f <sub>B</sub> |  |    |                              |                                  | m<br>kg                  |
| 19                                  | 22                   | 48.00* | 1800                               | 1.15                  | W                                                                                  | 10 | DRN                          | 63MR6                            | 6.8                      |
| 24                                  | 20                   | 39.00* | 1800                               | 1.30                  | WF                                                                                 | 10 | DRN                          | 63MR6                            | 7.0                      |
| 28                                  | 18                   | 32.50* | 1800                               | 1.55                  | WA                                                                                 | 10 | DRN                          | 63MR6                            | 6.8                      |
| 33                                  | 16                   | 27.50* | 1800                               | 1.70                  | WAF                                                                                | 10 | DRN                          | 63MR6                            | 7.0                      |
| 18                                  | 19                   | 75.00* | 1800                               | 1.30                  | W<br>WF<br>WA<br>WAF                                                               | 10 | DR2S<br>DR2S<br>DR2S<br>DR2S | 56MR4<br>56MR4<br>56MR4<br>56MR4 | 5.3<br>5.5<br>5.3<br>5.5 |
| 23                                  | 17                   | 60.00* | 1800                               | 1.50                  |                                                                                    |    |                              |                                  |                          |
| 29                                  | 15                   | 48.00* | 1800                               | 1.65                  |                                                                                    |    |                              |                                  |                          |
| 35                                  | 14                   | 39.00* | 1800                               | 1.85                  |                                                                                    |    |                              |                                  |                          |
| 42                                  | 13                   | 32.50* | 1800                               | 2.2                   |                                                                                    |    |                              |                                  |                          |
| 50                                  | 11                   | 27.50* | 1800                               | 2.4                   |                                                                                    |    |                              |                                  |                          |
| 56                                  | 10                   | 24.50* | 1800                               | 2.4                   |                                                                                    |    |                              |                                  |                          |
| 71                                  | 8.9                  | 19.50* | 1800                               | 3.4                   |                                                                                    |    |                              |                                  |                          |
| 84                                  | 8.0                  | 16.50* | 1800                               | 3.4                   |                                                                                    |    |                              |                                  |                          |
| 96                                  | 7.1                  | 14.33  | 1800                               | 3.4                   |                                                                                    |    |                              |                                  |                          |
| 135                                 | 5.5                  | 10.25* | 1800                               | 5.1                   | W<br>WF<br>WA<br>WAF                                                               | 10 | DR2S<br>DR2S<br>DR2S<br>DR2S | 56MR4<br>56MR4<br>56MR4<br>56MR4 | 5.1<br>5.1<br>5.1        |
| 168                                 | 4.5                  | 8.20*  | 1800                               | 5.1                   |                                                                                    |    |                              |                                  |                          |
| 210                                 | 3.7                  | 6.57   | 1800                               | 5.1                   |                                                                                    |    |                              |                                  |                          |

| P <sub>m</sub> = 0.12 kW            |                      |        |                                    |                       |                                                                                     |    |     |                                  |                           |
|-------------------------------------|----------------------|--------|------------------------------------|-----------------------|-------------------------------------------------------------------------------------|----|-----|----------------------------------|---------------------------|
| n <sub>a</sub><br>min <sup>-1</sup> | M <sub>a</sub><br>Nm | i      | F <sub>Ra</sub> <sup>1)</sup><br>N | SEW<br>f <sub>B</sub> |  |    |     |                                  | m<br>kg                   |
| 12                                  | 42                   | 75.00* | 3000                               | 1.70                  | W<br>WF<br>WA<br>WAF                                                                | 30 | DRN | 63M6<br>63M6<br>63M6<br>63M6     | 10.0<br>10<br>9.7<br>10.0 |
| 14                                  | 39                   | 60.00* | 3000                               | 1.80                  |                                                                                     |    |     |                                  |                           |
| 18                                  | 34                   | 48.00* | 3000                               | 2.1                   |                                                                                     |    |     |                                  |                           |
| 22                                  | 31                   | 39.00* | 3000                               | 2.3                   |                                                                                     |    |     |                                  |                           |
| 27                                  | 26                   | 32.50* | 3000                               | 2.7                   |                                                                                     |    |     |                                  |                           |
| 32                                  | 24                   | 27.50* | 3000                               | 2.9                   | W<br>WF<br>WA<br>WAF                                                                | 30 | DRN | 63MS4<br>63MS4<br>63MS4<br>63MS4 | 9.1<br>9.5<br>8.8<br>9.2  |
| 18                                  | 28                   | 75.00* | 3000                               | 2.5                   |                                                                                     |    |     |                                  |                           |
| 23                                  | 26                   | 60.00* | 3000                               | 2.7                   |                                                                                     |    |     |                                  |                           |
| 29                                  | 23                   | 48.00* | 3000                               | 3.1                   |                                                                                     |    |     |                                  |                           |
| 35                                  | 20                   | 39.00* | 3000                               | 3.4                   |                                                                                     |    |     |                                  |                           |
| 42                                  | 17                   | 32.50* | 3000                               | 4.1                   | W<br>WF<br>WA<br>WAF                                                                | 20 | DRN | 63M6<br>63M6<br>63M6<br>63M6     | 7.5<br>7.7<br>7.2<br>7.2  |
| 12                                  | 37                   | 75.00* | 2200                               | 1.10                  |                                                                                     |    |     |                                  |                           |
| 14                                  | 33                   | 60.00* | 2200                               | 1.25                  |                                                                                     |    |     |                                  |                           |
| 18                                  | 30                   | 48.00* | 2200                               | 1.30                  |                                                                                     |    |     |                                  |                           |
| 22                                  | 28                   | 39.00* | 2200                               | 1.45                  |                                                                                     |    |     |                                  |                           |
| 27                                  | 28                   | 32.50* | 2200                               | 1.45                  | W<br>WF<br>WA<br>WAF                                                                | 20 | DRN | 63MS4<br>63MS4<br>63MS4<br>63MS4 | 6.7<br>6.8<br>6.4<br>6.4  |
| 32                                  | 23                   | 27.50* | 2200                               | 1.75                  |                                                                                     |    |     |                                  |                           |
| 18                                  | 25                   | 75.00* | 2200                               | 1.60                  |                                                                                     |    |     |                                  |                           |
| 23                                  | 22                   | 60.00* | 2200                               | 1.80                  |                                                                                     |    |     |                                  |                           |
| 29                                  | 20                   | 48.00* | 2200                               | 1.95                  |                                                                                     |    |     |                                  |                           |
| 35                                  | 19                   | 39.00* | 2200                               | 2.2                   |                                                                                     |    |     |                                  |                           |
| 42                                  | 18                   | 32.50* | 2200                               | 2.2                   |                                                                                     |    |     |                                  |                           |
| 50                                  | 15                   | 27.50* | 2200                               | 2.6                   |                                                                                     |    |     |                                  |                           |
| 56                                  | 14                   | 24.50* | 2200                               | 2.9                   |                                                                                     |    |     |                                  |                           |
| 71                                  | 12                   | 19.50* | 2200                               | 3.5                   |                                                                                     |    |     |                                  |                           |
| 84                                  | 10                   | 16.50* | 2200                               | 3.7                   | W<br>WF<br>WA<br>WAF                                                                | 10 | DRN | 63M6<br>63M6<br>63M6<br>63M6     | 6.8<br>7.0<br>6.8<br>7.0  |
| 96                                  | 9.6                  | 14.33  | 2200                               | 4.7                   |                                                                                     |    |     |                                  |                           |
| 135                                 | 7.2                  | 10.25* | 2160                               | 5.0                   |                                                                                     |    |     |                                  |                           |
| 168                                 | 5.9                  | 8.20*  | 2020                               | 4.9                   |                                                                                     |    |     |                                  |                           |
| 210                                 | 4.9                  | 6.57   | 1890                               | 4.9                   | W<br>WF<br>WA<br>WAF                                                                | 10 | DRN | 63M6<br>63M6<br>63M6<br>63M6     | 6.8<br>7.0<br>6.8<br>7.0  |
| 18                                  | 30                   | 48.00* | 1800                               | 0.85                  |                                                                                     |    |     |                                  |                           |
| 22                                  | 28                   | 39.00* | 1800                               | 0.95                  |                                                                                     |    |     |                                  |                           |
| 27                                  | 25                   | 32.50* | 1800                               | 1.10                  |                                                                                     |    |     |                                  |                           |
| 32                                  | 22                   | 27.50* | 1800                               | 1.20                  |                                                                                     |    |     |                                  |                           |

**P<sub>m</sub> = 0.12 kW**

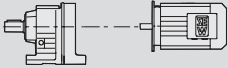
| $n_a$<br>min <sup>-1</sup> | $M_a$<br>Nm | $i$    | $F_{Ra}^{1)}$<br>N | SEW<br>$f_B$ |  |    |     |       | m<br>kg |
|----------------------------|-------------|--------|--------------------|--------------|------------------------------------------------------------------------------------|----|-----|-------|---------|
| 18                         | 25          | 75.00* | 1800               | 1.00         |                                                                                    |    |     |       |         |
| 23                         | 22          | 60.00* | 1800               | 1.15         |                                                                                    |    |     |       |         |
| 29                         | 20          | 48.00* | 1800               | 1.25         |                                                                                    |    |     |       |         |
| 35                         | 19          | 39.00* | 1800               | 1.40         |                                                                                    |    |     |       |         |
| 42                         | 17          | 32.50* | 1800               | 1.65         |                                                                                    |    |     |       |         |
| 50                         | 15          | 27.50* | 1800               | 1.80         | W                                                                                  | 10 | DRN | 63MS4 | 6.0     |
| 56                         | 14          | 24.50* | 1800               | 1.80         | WF                                                                                 | 10 | DRN | 63MS4 | 6.2     |
| 71                         | 12          | 19.50* | 1800               | 2.5          | WA                                                                                 | 10 | DRN | 63MS4 | 6.0     |
| 84                         | 11          | 16.50* | 1800               | 2.5          | WAF                                                                                | 10 | DRN | 63MS4 | 6.2     |
| 96                         | 9.5         | 14.33  | 1800               | 2.5          |                                                                                    |    |     |       |         |
| 135                        | 7.3         | 10.25* | 1800               | 3.8          |                                                                                    |    |     |       |         |
| 168                        | 6.0         | 8.20*  | 1800               | 3.8          |                                                                                    |    |     |       |         |
| 210                        | 5.0         | 6.57   | 1800               | 3.8          |                                                                                    |    |     |       |         |

**P<sub>m</sub> = 0.18 kW**

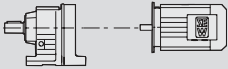
| $n_a$<br>min <sup>-1</sup> | $M_a$<br>Nm | $i$    | $F_{Ra}^{1)}$<br>N | SEW<br>$f_B$ |  |    |     |       | m<br>kg |
|----------------------------|-------------|--------|--------------------|--------------|------------------------------------------------------------------------------------|----|-----|-------|---------|
| 12                         | 60          | 75.00* | 3000               | 1.15         |                                                                                    |    |     |       |         |
| 15                         | 55          | 60.00* | 3000               | 1.25         | W                                                                                  | 30 | DRN | 71MS6 | 11      |
| 19                         | 49          | 48.00* | 3000               | 1.45         | WF                                                                                 | 30 | DRN | 71MS6 | 11      |
| 23                         | 44          | 39.00* | 3000               | 1.60         | WA                                                                                 | 30 | DRN | 71MS6 | 10      |
| 28                         | 37          | 32.50* | 3000               | 1.90         | WAF                                                                                | 30 | DRN | 71MS6 | 11      |
| 33                         | 35          | 27.50* | 3000               | 2.0          |                                                                                    |    |     |       |         |
| 18                         | 42          | 75.00* | 3000               | 1.65         |                                                                                    |    |     |       |         |
| 23                         | 39          | 60.00* | 3000               | 1.80         |                                                                                    |    |     |       |         |
| 29                         | 34          | 48.00* | 3000               | 2.1          |                                                                                    |    |     |       |         |
| 35                         | 31          | 39.00* | 3000               | 2.3          |                                                                                    |    |     |       |         |
| 42                         | 26          | 32.50* | 3000               | 2.7          | W                                                                                  | 30 | DRN | 63M4  | 10.0    |
| 50                         | 24          | 27.50* | 3000               | 2.9          | WF                                                                                 | 30 | DRN | 63M4  | 10      |
| 56                         | 22          | 24.50* | 3000               | 3.1          | WA                                                                                 | 30 | DRN | 63M4  | 9.7     |
| 71                         | 19          | 19.50* | 3000               | 3.7          | WAF                                                                                | 30 | DRN | 63M4  | 10.0    |
| 84                         | 16          | 16.33  | 3000               | 4.2          |                                                                                    |    |     |       |         |
| 96                         | 15          | 14.33  | 3000               | 4.7          |                                                                                    |    |     |       |         |
| 134                        | 11          | 10.25* | 3000               | 5.7          |                                                                                    |    |     |       |         |
| 168                        | 9.1         | 8.20*  | 3000               | 7.1          |                                                                                    |    |     |       |         |
| 209                        | 7.7         | 6.57   | 2940               | 8.1          |                                                                                    |    |     |       |         |
| 111                        | 12          | 24.50* | 3000               | 6.0          |                                                                                    |    |     |       |         |
| 140                        | 9.9         | 19.50* | 3000               | 7.1          | W                                                                                  | 30 | DRN | 63MS2 | 9.1     |
| 167                        | 8.5         | 16.33  | 3000               | 8.0          | WF                                                                                 | 30 | DRN | 63MS2 | 9.5     |
| 190                        | 7.7         | 14.33  | 3000               | 9.0          | WA                                                                                 | 30 | DRN | 63MS2 | 8.8     |
| 266                        | 5.7         | 10.25* | 2720               | 11           | WAF                                                                                | 30 | DRN | 63MS2 | 9.2     |
| 332                        | 4.7         | 8.20*  | 2540               | 14           |                                                                                    |    |     |       |         |
| 415                        | 4.0         | 6.57   | 2360               | 16           |                                                                                    |    |     |       |         |
| 15                         | 47          | 60.00* | 2200               | 0.85         |                                                                                    |    |     |       |         |
| 19                         | 43          | 48.00* | 2200               | 0.90         | W                                                                                  | 20 | DRN | 71MS6 | 8.1     |
| 23                         | 40          | 39.00* | 2200               | 1.00         | WF                                                                                 | 20 | DRN | 71MS6 | 8.2     |
| 28                         | 40          | 32.50* | 2200               | 1.00         | WA                                                                                 | 20 | DRN | 71MS6 | 7.8     |
| 33                         | 33          | 27.50* | 2200               | 1.20         | WAF                                                                                | 20 | DRN | 71MS6 | 7.8     |
| 37                         | 30          | 24.50* | 2200               | 1.35         |                                                                                    |    |     |       |         |
| 47                         | 26          | 19.50* | 2200               | 1.60         |                                                                                    |    |     |       |         |
| 18                         | 38          | 75.00* | 2200               | 1.05         |                                                                                    |    |     |       |         |
| 23                         | 33          | 60.00* | 2200               | 1.20         |                                                                                    |    |     |       |         |
| 29                         | 31          | 48.00* | 2200               | 1.30         |                                                                                    |    |     |       |         |
| 35                         | 28          | 39.00* | 2200               | 1.45         |                                                                                    |    |     |       |         |
| 42                         | 27          | 32.50* | 2200               | 1.45         | W                                                                                  | 20 | DRN | 63M4  | 7.5     |
| 50                         | 23          | 27.50* | 2200               | 1.75         | WF                                                                                 | 20 | DRN | 63M4  | 7.7     |
| 56                         | 21          | 24.50* | 2200               | 1.90         | WA                                                                                 | 20 | DRN | 63M4  | 7.2     |
| 71                         | 18          | 19.50* | 2200               | 2.4          | WAF                                                                                | 20 | DRN | 63M4  | 7.2     |
| 83                         | 16          | 16.50* | 2200               | 2.4          |                                                                                    |    |     |       |         |
| 96                         | 14          | 14.33  | 2200               | 3.1          |                                                                                    |    |     |       |         |
| 134                        | 11          | 10.25* | 2110               | 3.3          |                                                                                    |    |     |       |         |
| 168                        | 8.9         | 8.20*  | 1980               | 3.3          |                                                                                    |    |     |       |         |
| 209                        | 7.4         | 6.57   | 1870               | 3.2          |                                                                                    |    |     |       |         |

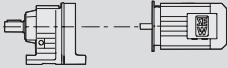
| P <sub>m</sub> = 0.18 kW            |                      |        |                                    |                       |                                                                                    |                      |                          |                                  |                          |
|-------------------------------------|----------------------|--------|------------------------------------|-----------------------|------------------------------------------------------------------------------------|----------------------|--------------------------|----------------------------------|--------------------------|
| n <sub>a</sub><br>min <sup>-1</sup> | M <sub>a</sub><br>Nm | i      | F <sub>Ra</sub> <sup>1)</sup><br>N | SEW<br>f <sub>B</sub> |  |                      |                          |                                  | m<br>kg                  |
| 111                                 | 11                   | 24.50* | 2200                               | 3.6                   | W<br>WF<br>WA<br>WAF                                                               | 20<br>20<br>20<br>20 | DRN<br>DRN<br>DRN<br>DRN | 63MS2<br>63MS2<br>63MS2<br>63MS2 | 6.7<br>6.8<br>6.4<br>6.4 |
| 140                                 | 9.4                  | 19.50* | 2090                               | 4.5                   |                                                                                    |                      |                          |                                  |                          |
| 165                                 | 8.2                  | 16.50* | 1980                               | 4.7                   |                                                                                    |                      |                          |                                  |                          |
| 190                                 | 7.5                  | 14.33  | 1900                               | 6.0                   |                                                                                    |                      |                          |                                  |                          |
| 266                                 | 5.6                  | 10.25* | 1720                               | 6.5                   |                                                                                    |                      |                          |                                  |                          |
| 332                                 | 4.6                  | 8.20*  | 1610                               | 6.4                   |                                                                                    |                      |                          |                                  |                          |
| 415                                 | 3.8                  | 6.57   | 1510                               | 6.3                   |                                                                                    |                      |                          |                                  |                          |
| 29                                  | 30                   | 48.00* | 1800                               | 0.80                  | W<br>WF<br>WA<br>WAF                                                               | 10<br>10<br>10<br>10 | DRN<br>DRN<br>DRN<br>DRN | 63M4<br>63M4<br>63M4<br>63M4     | 6.8<br>7.0<br>6.8<br>7.0 |
| 35                                  | 28                   | 39.00* | 1800                               | 0.95                  |                                                                                    |                      |                          |                                  |                          |
| 42                                  | 25                   | 32.50* | 1800                               | 1.10                  |                                                                                    |                      |                          |                                  |                          |
| 50                                  | 22                   | 27.50* | 1800                               | 1.20                  |                                                                                    |                      |                          |                                  |                          |
| 56                                  | 21                   | 24.50* | 1800                               | 1.20                  |                                                                                    |                      |                          |                                  |                          |
| 71                                  | 18                   | 19.50* | 1800                               | 1.70                  |                                                                                    |                      |                          |                                  |                          |
| 83                                  | 16                   | 16.50* | 1800                               | 1.70                  |                                                                                    |                      |                          |                                  |                          |
| 96                                  | 14                   | 14.33  | 1800                               | 1.65                  |                                                                                    |                      |                          |                                  |                          |
| 134                                 | 11                   | 10.25* | 1800                               | 2.5                   |                                                                                    |                      |                          |                                  |                          |
| 168                                 | 9.0                  | 8.20*  | 1800                               | 2.5                   |                                                                                    |                      |                          |                                  |                          |
| 209                                 | 7.5                  | 6.57   | 1790                               | 2.5                   |                                                                                    |                      |                          |                                  |                          |
| 190                                 | 7.5                  | 14.33  | 1800                               | 3.2                   | W                                                                                  | 10                   | DRN                      | 63MS2                            | 6.0                      |
| 266                                 | 5.7                  | 10.25* | 1650                               | 4.9                   | WF                                                                                 | 10                   | DRN                      | 63MS2                            | 6.2                      |
| 332                                 | 4.7                  | 8.20*  | 1540                               | 4.9                   | WA                                                                                 | 10                   | DRN                      | 63MS2                            | 6.0                      |
| 415                                 | 3.9                  | 6.57   | 1450                               | 4.9                   | WAF                                                                                | 10                   | DRN                      | 63MS2                            | 6.2                      |

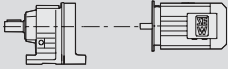
| P <sub>m</sub> = 0.25 kW            |                      |        |                                    |                       |                                                                                      |                      |                          |                                  |                           |
|-------------------------------------|----------------------|--------|------------------------------------|-----------------------|--------------------------------------------------------------------------------------|----------------------|--------------------------|----------------------------------|---------------------------|
| n <sub>a</sub><br>min <sup>-1</sup> | M <sub>a</sub><br>Nm | i      | F <sub>Ra</sub> <sup>1)</sup><br>N | SEW<br>f <sub>B</sub> |  |                      |                          |                                  | m<br>kg                   |
| 12                                  | 83                   | 75.00* | 3000                               | 0.85                  | W<br>WF<br>WA<br>WAF                                                                 | 30<br>30<br>30<br>30 | DRN<br>DRN<br>DRN<br>DRN | 71M6<br>71M6<br>71M6<br>71M6     | 12<br>12<br>11<br>12      |
| 15                                  | 77                   | 60.00* | 3000                               | 0.90                  |                                                                                      |                      |                          |                                  |                           |
| 19                                  | 67                   | 48.00* | 3000                               | 1.05                  |                                                                                      |                      |                          |                                  |                           |
| 23                                  | 62                   | 39.00* | 3000                               | 1.15                  |                                                                                      |                      |                          |                                  |                           |
| 28                                  | 52                   | 32.50* | 3000                               | 1.35                  |                                                                                      |                      |                          |                                  |                           |
| 33                                  | 48                   | 27.50* | 3000                               | 1.45                  |                                                                                      |                      |                          |                                  |                           |
| 37                                  | 45                   | 24.50* | 3000                               | 1.55                  |                                                                                      |                      |                          |                                  |                           |
| 47                                  | 39                   | 19.50* | 3000                               | 1.80                  |                                                                                      |                      |                          |                                  |                           |
| 19                                  | 57                   | 75.00* | 3000                               | 1.20                  | W<br>WF<br>WA<br>WAF                                                                 | 30<br>30<br>30<br>30 | DRN<br>DRN<br>DRN<br>DRN | 71MS4<br>71MS4<br>71MS4<br>71MS4 | 11<br>11<br>10<br>11      |
| 23                                  | 53                   | 60.00* | 3000                               | 1.30                  |                                                                                      |                      |                          |                                  |                           |
| 29                                  | 46                   | 48.00* | 3000                               | 1.50                  |                                                                                      |                      |                          |                                  |                           |
| 36                                  | 42                   | 39.00* | 3000                               | 1.65                  |                                                                                      |                      |                          |                                  |                           |
| 43                                  | 35                   | 32.50* | 3000                               | 2.0                   |                                                                                      |                      |                          |                                  |                           |
| 51                                  | 33                   | 27.50* | 3000                               | 2.1                   |                                                                                      |                      |                          |                                  |                           |
| 57                                  | 30                   | 24.50* | 3000                               | 2.3                   |                                                                                      |                      |                          |                                  |                           |
| 72                                  | 26                   | 19.50* | 3000                               | 2.7                   |                                                                                      |                      |                          |                                  |                           |
| 86                                  | 22                   | 16.33  | 3000                               | 3.1                   |                                                                                      |                      |                          |                                  |                           |
| 98                                  | 20                   | 14.33  | 3000                               | 3.4                   |                                                                                      |                      |                          |                                  |                           |
| 137                                 | 15                   | 10.25* | 3000                               | 4.2                   |                                                                                      |                      |                          |                                  |                           |
| 171                                 | 12                   | 8.20*  | 3000                               | 5.2                   |                                                                                      |                      |                          |                                  |                           |
| 214                                 | 10                   | 6.57   | 2900                               | 6.0                   |                                                                                      |                      |                          |                                  |                           |
| 112                                 | 16                   | 24.50* | 3000                               | 4.3                   | W<br>WF<br>WA<br>WAF                                                                 | 30<br>30<br>30<br>30 | DRN<br>DRN<br>DRN<br>DRN | 63M2<br>63M2<br>63M2<br>63M2     | 10.0<br>10<br>9.7<br>10.0 |
| 141                                 | 14                   | 19.50* | 3000                               | 5.2                   |                                                                                      |                      |                          |                                  |                           |
| 169                                 | 12                   | 16.33  | 3000                               | 5.8                   |                                                                                      |                      |                          |                                  |                           |
| 192                                 | 11                   | 14.33  | 2980                               | 6.5                   |                                                                                      |                      |                          |                                  |                           |
| 269                                 | 7.9                  | 10.25* | 2690                               | 8.0                   |                                                                                      |                      |                          |                                  |                           |
| 336                                 | 6.4                  | 8.20*  | 2510                               | 10                    |                                                                                      |                      |                          |                                  |                           |
| 419                                 | 5.4                  | 6.57   | 2340                               | 11                    |                                                                                      |                      |                          |                                  |                           |

| <b>P<sub>m</sub> = 0.25 kW</b>                  |                                   |          |                                                |                                    |                                                                                    |    |     |       |                       |
|-------------------------------------------------|-----------------------------------|----------|------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------|----|-----|-------|-----------------------|
| <b>n<sub>a</sub></b><br><b>min<sup>-1</sup></b> | <b>M<sub>a</sub></b><br><b>Nm</b> | <b>i</b> | <b>F<sub>Ra</sub><sup>1)</sup></b><br><b>N</b> | <b>SEW</b><br><b>f<sub>B</sub></b> |  |    |     |       | <b>m</b><br><b>kg</b> |
| 23                                              | 45                                | 60.00*   | 2200                                           | 0.90                               | W                                                                                  | 20 | DRN | 71MS4 | 8.1                   |
| 29                                              | 42                                | 48.00*   | 2200                                           | 0.95                               |                                                                                    |    |     |       |                       |
| 36                                              | 38                                | 39.00*   | 2200                                           | 1.05                               |                                                                                    |    |     |       |                       |
| 43                                              | 37                                | 32.50*   | 2200                                           | 1.10                               |                                                                                    |    |     |       |                       |
| 51                                              | 31                                | 27.50*   | 2200                                           | 1.30                               |                                                                                    |    |     |       |                       |
| 57                                              | 28                                | 24.50*   | 2200                                           | 1.40                               |                                                                                    |    |     |       |                       |
| 72                                              | 24                                | 19.50*   | 2200                                           | 1.75                               |                                                                                    |    |     |       |                       |
| 85                                              | 21                                | 16.50*   | 2200                                           | 1.80                               |                                                                                    |    |     |       |                       |
| 98                                              | 20                                | 14.33    | 2200                                           | 2.3                                |                                                                                    |    |     |       |                       |
| 137                                             | 15                                | 10.25*   | 2050                                           | 2.5                                |                                                                                    |    |     |       |                       |
| 171                                             | 12                                | 8.20*    | 1930                                           | 2.4                                | WF                                                                                 | 20 | DRN | 71MS4 | 8.2                   |
| 214                                             | 10                                | 6.57     | 1830                                           | 2.4                                |                                                                                    |    |     |       |                       |
| 85                                              | 20                                | 32.50*   | 2200                                           | 2.0                                |                                                                                    |    |     |       |                       |
| 100                                             | 17                                | 27.50*   | 2200                                           | 2.4                                |                                                                                    |    |     |       |                       |
| 112                                             | 15                                | 24.50*   | 2170                                           | 2.6                                |                                                                                    |    |     |       |                       |
| 141                                             | 13                                | 19.50*   | 2030                                           | 3.2                                |                                                                                    |    |     |       |                       |
| 167                                             | 11                                | 16.50*   | 1930                                           | 3.4                                |                                                                                    |    |     |       |                       |
| 192                                             | 10                                | 14.33    | 1860                                           | 4.4                                |                                                                                    |    |     |       |                       |
| 269                                             | 7.7                               | 10.25*   | 1690                                           | 4.7                                |                                                                                    |    |     |       |                       |
| 336                                             | 6.3                               | 8.20*    | 1580                                           | 4.6                                |                                                                                    |    |     |       |                       |
| 419                                             | 5.3                               | 6.57     | 1490                                           | 4.6                                |                                                                                    |    |     |       |                       |
| 51                                              | 30                                | 27.50*   | 1800                                           | 0.90                               | WA                                                                                 | 20 | DRN | 71MS4 | 7.8                   |
| 57                                              | 28                                | 24.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 72                                              | 24                                | 19.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 85                                              | 22                                | 16.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 98                                              | 20                                | 14.33    | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 137                                             | 15                                | 10.25*   | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 171                                             | 12                                | 8.20*    | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 214                                             | 10                                | 6.57     | 1750                                           | 1.85                               |                                                                                    |    |     |       |                       |
| 192                                             | 10                                | 14.33    | 1780                                           | 2.3                                |                                                                                    |    |     |       |                       |
| 269                                             | 7.8                               | 10.25*   | 1620                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 336                                             | 6.4                               | 8.20*    | 1520                                           | 3.6                                | WAF                                                                                | 20 | DRN | 71MS4 | 7.4                   |
| 419                                             | 5.3                               | 6.57     | 1430                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 51                                              | 30                                | 27.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 57                                              | 28                                | 24.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 72                                              | 24                                | 19.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 85                                              | 22                                | 16.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 98                                              | 20                                | 14.33    | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 137                                             | 15                                | 10.25*   | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 171                                             | 12                                | 8.20*    | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 214                                             | 10                                | 6.57     | 1750                                           | 1.85                               |                                                                                    |    |     |       |                       |
| 192                                             | 10                                | 14.33    | 1780                                           | 2.3                                | W                                                                                  | 10 | DRN | 63M2  | 7.5                   |
| 269                                             | 7.8                               | 10.25*   | 1620                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 336                                             | 6.4                               | 8.20*    | 1520                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 419                                             | 5.3                               | 6.57     | 1430                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 51                                              | 30                                | 27.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 57                                              | 28                                | 24.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 72                                              | 24                                | 19.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 85                                              | 22                                | 16.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 98                                              | 20                                | 14.33    | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 137                                             | 15                                | 10.25*   | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 171                                             | 12                                | 8.20*    | 1800                                           | 1.90                               | WF                                                                                 | 10 | DRN | 63M2  | 7.6                   |
| 214                                             | 10                                | 6.57     | 1750                                           | 1.85                               |                                                                                    |    |     |       |                       |
| 192                                             | 10                                | 14.33    | 1780                                           | 2.3                                |                                                                                    |    |     |       |                       |
| 269                                             | 7.8                               | 10.25*   | 1620                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 336                                             | 6.4                               | 8.20*    | 1520                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 419                                             | 5.3                               | 6.57     | 1430                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 51                                              | 30                                | 27.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 57                                              | 28                                | 24.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 72                                              | 24                                | 19.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 85                                              | 22                                | 16.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 98                                              | 20                                | 14.33    | 1800                                           | 1.25                               | WA                                                                                 | 10 | DRN | 63M2  | 7.4                   |
| 137                                             | 15                                | 10.25*   | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 171                                             | 12                                | 8.20*    | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 214                                             | 10                                | 6.57     | 1750                                           | 1.85                               |                                                                                    |    |     |       |                       |
| 192                                             | 10                                | 14.33    | 1780                                           | 2.3                                |                                                                                    |    |     |       |                       |
| 269                                             | 7.8                               | 10.25*   | 1620                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 336                                             | 6.4                               | 8.20*    | 1520                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 419                                             | 5.3                               | 6.57     | 1430                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 51                                              | 30                                | 27.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 57                                              | 28                                | 24.50*   | 1800                                           | 0.90                               |                                                                                    |    |     |       |                       |
| 72                                              | 24                                | 19.50*   | 1800                                           | 1.25                               | WAF                                                                                | 10 | DRN | 63M2  | 7.0                   |
| 85                                              | 22                                | 16.50*   | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 98                                              | 20                                | 14.33    | 1800                                           | 1.25                               |                                                                                    |    |     |       |                       |
| 137                                             | 15                                | 10.25*   | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 171                                             | 12                                | 8.20*    | 1800                                           | 1.90                               |                                                                                    |    |     |       |                       |
| 214                                             | 10                                | 6.57     | 1750                                           | 1.85                               |                                                                                    |    |     |       |                       |
| 192                                             | 10                                | 14.33    | 1780                                           | 2.3                                |                                                                                    |    |     |       |                       |
| 269                                             | 7.8                               | 10.25*   | 1620                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 336                                             | 6.4                               | 8.20*    | 1520                                           | 3.6                                |                                                                                    |    |     |       |                       |
| 419                                             | 5.3                               | 6.57     | 1430                                           | 3.6                                |                                                                                    |    |     |       |                       |

| <b>P<sub>m</sub> = 0.37 kW</b>                  |                                   |          |                                                |                                    |                                                                                      |    |     |       |                       |
|-------------------------------------------------|-----------------------------------|----------|------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|----|-----|-------|-----------------------|
| <b>n<sub>a</sub></b><br><b>min<sup>-1</sup></b> | <b>M<sub>a</sub></b><br><b>Nm</b> | <b>i</b> | <b>F<sub>Ra</sub><sup>1)</sup></b><br><b>N</b> | <b>SEW</b><br><b>f<sub>B</sub></b> |  |    |     |       | <b>m</b><br><b>kg</b> |
| 24                                              | 78                                | 60.00*   | 3000                                           | 0.90                               | W                                                                                    | 30 | DRN | 71M4  | 12                    |
| 29                                              | 68                                | 48.00*   | 3000                                           | 1.05                               |                                                                                      |    |     |       |                       |
| 36                                              | 62                                | 39.00*   | 3000                                           | 1.15                               |                                                                                      |    |     |       |                       |
| 44                                              | 52                                | 32.50*   | 3000                                           | 1.35                               |                                                                                      |    |     |       |                       |
| 51                                              | 48                                | 27.50*   | 3000                                           | 1.45                               |                                                                                      |    |     |       |                       |
| 58                                              | 45                                | 24.50*   | 3000                                           | 1.55                               |                                                                                      |    |     |       |                       |
| 73                                              | 38                                | 19.50*   | 3000                                           | 1.85                               |                                                                                      |    |     |       |                       |
| 87                                              | 33                                | 16.33    | 3000                                           | 2.1                                |                                                                                      |    |     |       |                       |
| 99                                              | 30                                | 14.33    | 3000                                           | 2.3                                |                                                                                      |    |     |       |                       |
| 138                                             | 22                                | 10.25*   | 3000                                           | 2.8                                |                                                                                      |    |     |       |                       |
| 173                                             | 18                                | 8.20*    | 3000                                           | 3.6                                | WF                                                                                   | 30 | DRN | 71M4  | 12                    |
| 215                                             | 15                                | 6.57     | 2850                                           | 4.0                                |                                                                                      |    |     |       |                       |
| 115                                             | 23                                | 24.50*   | 3000                                           | 3.0                                |                                                                                      |    |     |       |                       |
| 144                                             | 20                                | 19.50*   | 3000                                           | 3.5                                |                                                                                      |    |     |       |                       |
| 172                                             | 17                                | 16.33    | 3000                                           | 4.0                                |                                                                                      |    |     |       |                       |
| 196                                             | 15                                | 14.33    | 2910                                           | 4.5                                |                                                                                      |    |     |       |                       |
| 274                                             | 11                                | 10.25*   | 2640                                           | 5.5                                |                                                                                      |    |     |       |                       |
| 343                                             | 9.3                               | 8.20*    | 2460                                           | 7.0                                |                                                                                      |    |     |       |                       |
| 428                                             | 7.9                               | 6.57     | 2300                                           | 7.9                                |                                                                                      |    |     |       |                       |
| 115                                             | 23                                | 24.50*   | 3000                                           | 3.0                                | WA                                                                                   | 30 | DRN | 71MS2 | 11                    |
| 144                                             | 20                                | 19.50*   | 3000                                           | 3.5                                |                                                                                      |    |     |       |                       |
| 172                                             | 17                                | 16.33    | 3000                                           | 4.0                                |                                                                                      |    |     |       |                       |
| 196                                             | 15                                | 14.33    | 2910                                           | 4.5                                |                                                                                      |    |     |       |                       |
| 274                                             | 11                                | 10.25*   | 2640                                           | 5.5                                |                                                                                      |    |     |       |                       |
| 343                                             | 9.3                               | 8.20*    | 2460                                           | 7.0                                |                                                                                      |    |     |       |                       |
| 428                                             | 7.9                               | 6.57     | 2300                                           | 7.9                                |                                                                                      |    |     |       |                       |
| 115                                             | 23                                | 24.50*   | 3000                                           | 3.0                                |                                                                                      |    |     |       |                       |
| 144                                             | 20                                | 19.50*   | 3000                                           | 3.5                                |                                                                                      |    |     |       |                       |
| 172                                             | 17                                | 16.33    | 3000                                           | 4.0                                |                                                                                      |    |     |       |                       |
| 196                                             | 15                                | 14.33    | 2910                                           | 4.5                                | WAF                                                                                  | 30 | DRN | 71MS2 | 11                    |
| 274                                             | 11                                | 10.25*   | 2640                                           | 5.5                                |                                                                                      |    |     |       |                       |
| 343                                             | 9.3                               | 8.20*    | 2460                                           | 7.0                                |                                                                                      |    |     |       |                       |
| 428                                             | 7.9                               | 6.57     | 2300                                           | 7.9                                |                                                                                      |    |     |       |                       |
| 115                                             | 23                                | 24.50*   | 3000                                           | 3.0                                |                                                                                      |    |     |       |                       |
| 144                                             | 20                                | 19.50*   | 3000                                           | 3.5                                |                                                                                      |    |     |       |                       |
| 172                                             | 17                                | 16.33    | 3000                                           | 4.0                                |                                                                                      |    |     |       |                       |
| 196                                             | 15                                | 14.33    | 2910                                           | 4.5                                |                                                                                      |    |     |       |                       |
| 274                                             | 11                                | 10.25*   | 2640                                           | 5.5                                |                                                                                      |    |     |       |                       |
| 343                                             | 9.3                               | 8.20*    | 2460                                           | 7.0                                |                                                                                      |    |     |       |                       |
| 428                                             | 7.9                               | 6.57     | 2300                                           | 7.9                                |                                                                                      |    |     |       |                       |

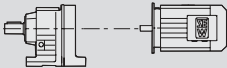
| <b>P<sub>m</sub> = 0.37 kW</b>                  |                                   |          |                                                |                                    |                                                                                    |           |            |              |                       |
|-------------------------------------------------|-----------------------------------|----------|------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------|-----------|------------|--------------|-----------------------|
| <b>n<sub>a</sub></b><br><b>min<sup>-1</sup></b> | <b>M<sub>a</sub></b><br><b>Nm</b> | <b>i</b> | <b>F<sub>Ra</sub><sup>1)</sup></b><br><b>N</b> | <b>SEW</b><br><b>f<sub>B</sub></b> |  |           |            |              | <b>m</b><br><b>kg</b> |
| 51                                              | 46                                | 27.50*   | 2200                                           | 0.85                               | <b>W</b>                                                                           | <b>20</b> | <b>DRN</b> | <b>71M4</b>  | 9.3                   |
| 58                                              | 42                                | 24.50*   | 2200                                           | 0.95                               |                                                                                    |           |            |              |                       |
| 73                                              | 36                                | 19.50*   | 2200                                           | 1.15                               |                                                                                    |           |            |              |                       |
| 86                                              | 31                                | 16.50*   | 2170                                           | 1.20                               |                                                                                    |           |            |              |                       |
| 99                                              | 29                                | 14.33    | 2120                                           | 1.55                               |                                                                                    |           |            |              |                       |
| 138                                             | 22                                | 10.25*   | 1960                                           | 1.65                               |                                                                                    |           |            |              |                       |
| 173                                             | 18                                | 8.20*    | 1860                                           | 1.65                               | <b>WF</b>                                                                          | <b>20</b> | <b>DRN</b> | <b>71M4</b>  | 9.1                   |
| 215                                             | 15                                | 6.57     | 1780                                           | 1.60                               |                                                                                    |           |            |              |                       |
| 115                                             | 22                                | 24.50*   | 2060                                           | 1.80                               |                                                                                    |           |            |              |                       |
| 144                                             | 19                                | 19.50*   | 1940                                           | 2.2                                |                                                                                    |           |            |              |                       |
| 170                                             | 16                                | 16.50*   | 1850                                           | 2.3                                | <b>WA</b>                                                                          | <b>20</b> | <b>DRN</b> | <b>71MS2</b> | 8.1                   |
| 196                                             | 15                                | 14.33    | 1790                                           | 3.0                                |                                                                                    |           |            |              |                       |
| 274                                             | 11                                | 10.25*   | 1630                                           | 3.2                                |                                                                                    |           |            |              |                       |
| 343                                             | 9.1                               | 8.20*    | 1540                                           | 3.2                                |                                                                                    |           |            |              |                       |
| 428                                             | 7.7                               | 6.57     | 1460                                           | 3.1                                | <b>WAF</b>                                                                         | <b>20</b> | <b>DRN</b> | <b>71MS2</b> | 7.8                   |
| 73                                              | 36                                | 19.50*   | 1800                                           | 0.85                               |                                                                                    |           |            |              |                       |
| 86                                              | 32                                | 16.50*   | 1800                                           | 0.85                               |                                                                                    |           |            |              |                       |
| 99                                              | 29                                | 14.33    | 1800                                           | 0.85                               |                                                                                    |           |            |              |                       |
| 138                                             | 22                                | 10.25*   | 1800                                           | 1.30                               | <b>WA</b>                                                                          | <b>10</b> | <b>DRN</b> | <b>71M4</b>  | 8.6                   |
| 173                                             | 18                                | 8.20*    | 1780                                           | 1.30                               |                                                                                    |           |            |              |                       |
| 215                                             | 15                                | 6.57     | 1700                                           | 1.25                               |                                                                                    |           |            |              |                       |
| 196                                             | 15                                | 14.33    | 1710                                           | 1.60                               |                                                                                    |           |            |              |                       |
| 274                                             | 11                                | 10.25*   | 1560                                           | 2.5                                | <b>WF</b>                                                                          | <b>10</b> | <b>DRN</b> | <b>71MS2</b> | 7.4                   |
| 343                                             | 9.3                               | 8.20*    | 1470                                           | 2.5                                |                                                                                    |           |            |              |                       |
| 428                                             | 7.7                               | 6.57     | 1390                                           | 2.5                                |                                                                                    |           |            |              |                       |
|                                                 |                                   |          |                                                |                                    |                                                                                    |           |            |              |                       |

| <b>P<sub>m</sub> = 0.55 kW</b>                  |                                   |          |                                                |                                    |                                                                                      |           |            |              |                       |
|-------------------------------------------------|-----------------------------------|----------|------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|-----------|------------|--------------|-----------------------|
| <b>n<sub>a</sub></b><br><b>min<sup>-1</sup></b> | <b>M<sub>a</sub></b><br><b>Nm</b> | <b>i</b> | <b>F<sub>Ra</sub><sup>1)</sup></b><br><b>N</b> | <b>SEW</b><br><b>f<sub>B</sub></b> |  |           |            |              | <b>m</b><br><b>kg</b> |
| 44                                              | 76                                | 32.50*   | 3000                                           | 0.90                               | <b>W</b>                                                                             | <b>30</b> | <b>DRN</b> | <b>80MK4</b> | 14                    |
| 52                                              | 71                                | 27.50*   | 3000                                           | 1.00                               |                                                                                      |           |            |              |                       |
| 59                                              | 66                                | 24.50*   | 3000                                           | 1.05                               |                                                                                      |           |            |              |                       |
| 74                                              | 56                                | 19.50*   | 3000                                           | 1.25                               |                                                                                      |           |            |              |                       |
| 88                                              | 48                                | 16.33    | 3000                                           | 1.40                               |                                                                                      |           |            |              |                       |
| 100                                             | 43                                | 14.33    | 3000                                           | 1.60                               |                                                                                      |           |            |              |                       |
| 140                                             | 33                                | 10.25*   | 3000                                           | 1.95                               | <b>WF</b>                                                                            | <b>30</b> | <b>DRN</b> | <b>80MK4</b> | 14                    |
| 175                                             | 27                                | 8.20*    | 2940                                           | 2.4                                |                                                                                      |           |            |              |                       |
| 218                                             | 22                                | 6.57     | 2770                                           | 2.8                                |                                                                                      |           |            |              |                       |
| 115                                             | 35                                | 24.50*   | 3000                                           | 2.0                                |                                                                                      |           |            |              |                       |
| 145                                             | 29                                | 19.50*   | 3000                                           | 2.4                                | <b>WA</b>                                                                            | <b>30</b> | <b>DRN</b> | <b>71M2</b>  | 12                    |
| 173                                             | 25                                | 16.33    | 2930                                           | 2.7                                |                                                                                      |           |            |              |                       |
| 197                                             | 23                                | 14.33    | 2830                                           | 3.0                                |                                                                                      |           |            |              |                       |
| 276                                             | 17                                | 10.25*   | 2580                                           | 3.7                                |                                                                                      |           |            |              |                       |
| 345                                             | 14                                | 8.20*    | 2420                                           | 4.7                                |                                                                                      |           |            |              |                       |
| 430                                             | 12                                | 6.57     | 2260                                           | 5.3                                |                                                                                      |           |            |              |                       |
| 74                                              | 52                                | 19.50*   | 2020                                           | 0.80                               | <b>WF</b>                                                                            | <b>20</b> | <b>DRN</b> | <b>80MK4</b> | 11                    |
| 87                                              | 46                                | 16.50*   | 1960                                           | 0.85                               |                                                                                      |           |            |              |                       |
| 100                                             | 42                                | 14.33    | 1940                                           | 1.05                               |                                                                                      |           |            |              |                       |
| 140                                             | 32                                | 10.25*   | 1820                                           | 1.15                               |                                                                                      |           |            |              |                       |
| 175                                             | 26                                | 8.20*    | 1750                                           | 1.10                               |                                                                                      |           |            |              |                       |
| 218                                             | 22                                | 6.57     | 1710                                           | 1.10                               |                                                                                      |           |            |              |                       |
| 115                                             | 33                                | 24.50*   | 1900                                           | 1.25                               | <b>WA</b>                                                                            | <b>20</b> | <b>DRN</b> | <b>71M2</b>  | 9.3                   |
| 145                                             | 28                                | 19.50*   | 1810                                           | 1.50                               |                                                                                      |           |            |              |                       |
| 171                                             | 24                                | 16.50*   | 1740                                           | 1.60                               |                                                                                      |           |            |              |                       |
| 197                                             | 22                                | 14.33    | 1690                                           | 2.0                                |                                                                                      |           |            |              |                       |
| 276                                             | 16                                | 10.25*   | 1560                                           | 2.2                                |                                                                                      |           |            |              |                       |
| 345                                             | 13                                | 8.20*    | 1480                                           | 2.2                                |                                                                                      |           |            |              |                       |
| 430                                             | 11                                | 6.57     | 1420                                           | 2.1                                | <b>WAF</b>                                                                           | <b>20</b> | <b>DRN</b> | <b>71M2</b>  | 9.1                   |
|                                                 |                                   |          |                                                |                                    |                                                                                      |           |            |              |                       |
|                                                 |                                   |          |                                                |                                    |                                                                                      |           |            |              |                       |
|                                                 |                                   |          |                                                |                                    |                                                                                      |           |            |              |                       |

**P<sub>m</sub> = 0.75 kW**

| $n_a$<br>min <sup>-1</sup> | $M_a$<br>Nm | i      | $F_{Ra}^{1)}$<br>N | SEW<br>$f_B$ |  |    |     |      | m<br>kg |
|----------------------------|-------------|--------|--------------------|--------------|------------------------------------------------------------------------------------|----|-----|------|---------|
| 59                         | 89          | 24.50* | 3000               | 0.80         | W<br>WF<br>WA<br>WAF                                                               | 30 | DRN | 80M4 | 17      |
| 74                         | 76          | 19.50* | 3000               | 0.95         |                                                                                    |    |     |      |         |
| 88                         | 65          | 16.33  | 3000               | 1.05         |                                                                                    |    |     |      |         |
| 100                        | 59          | 14.33  | 3000               | 1.15         |                                                                                    |    |     |      |         |
| 140                        | 44          | 10.25* | 3000               | 1.40         |                                                                                    |    |     |      |         |
| 176                        | 36          | 8.20*  | 2850               | 1.80         |                                                                                    |    |     |      |         |
| 219                        | 31          | 6.57   | 2700               | 2.0          |                                                                                    |    |     |      |         |

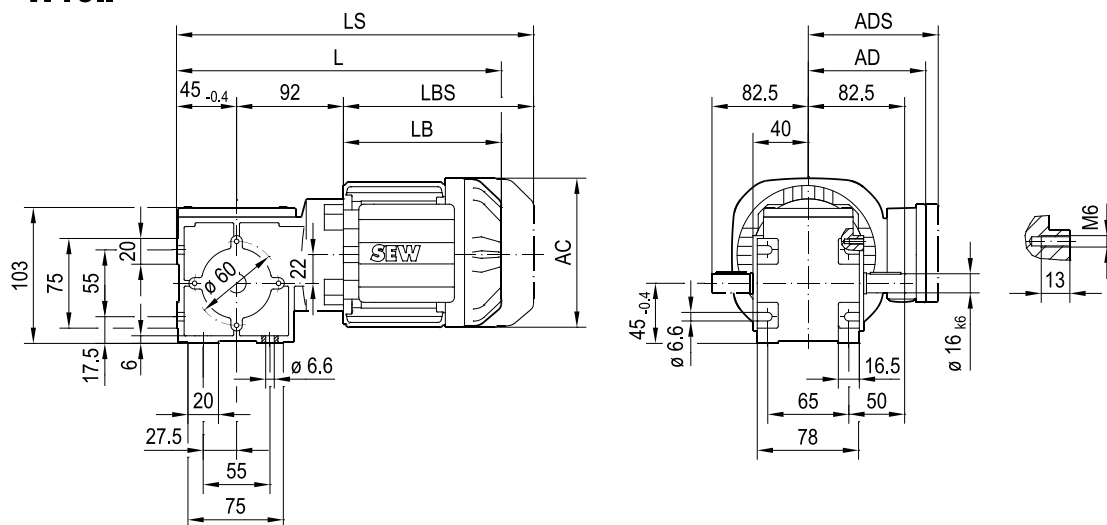
**P<sub>m</sub> = 1.1 kW**

| $n_a$<br>min <sup>-1</sup> | $M_a$<br>Nm | $i$    | $F_{Ra}^{1)}$<br>N | SEW<br>$f_B$ |  |    |     |      | m<br>kg |
|----------------------------|-------------|--------|--------------------|--------------|------------------------------------------------------------------------------------|----|-----|------|---------|
| 175                        | 49          | 16.33  | 2660               | 1.40         | W<br>WF<br>WA<br>WAF                                                               | 30 | DRN | 80M2 | 17      |
| 200                        | 45          | 14.33  | 2590               | 1.55         |                                                                                    |    |     |      | 18      |
| 279                        | 33          | 10.25* | 2410               | 1.90         |                                                                                    |    |     |      | 17      |
| 349                        | 27          | 8.20*  | 2280               | 2.4          |                                                                                    |    |     |      | 17      |
| 435                        | 23          | 6.57   | 2160               | 2.7          |                                                                                    |    |     |      | 17      |

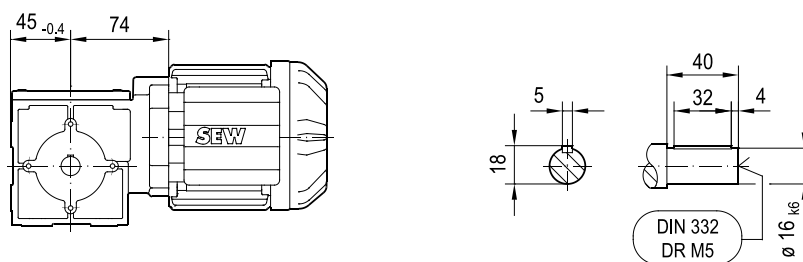
# 5 Dimension sheets for W.. DRN.. in mm

20 001 03 14

## W10..



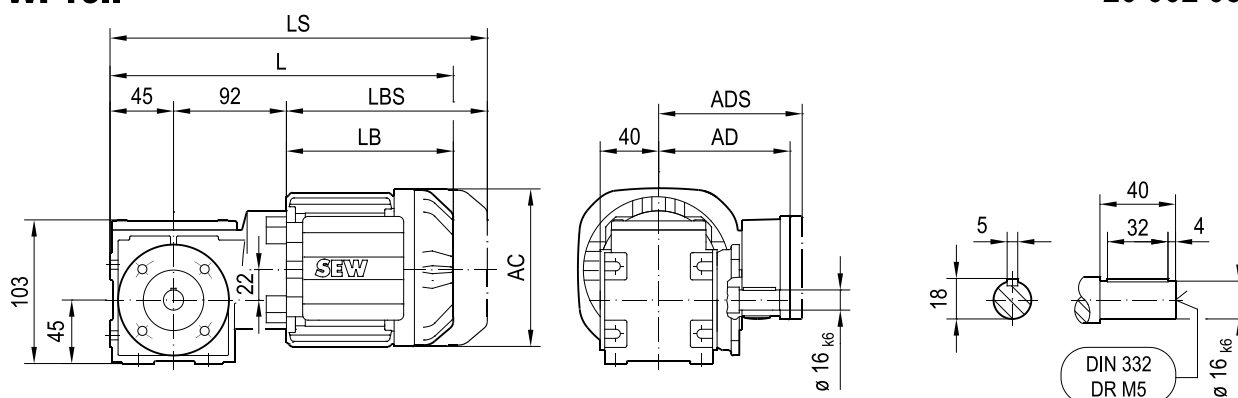
## DR2S56..



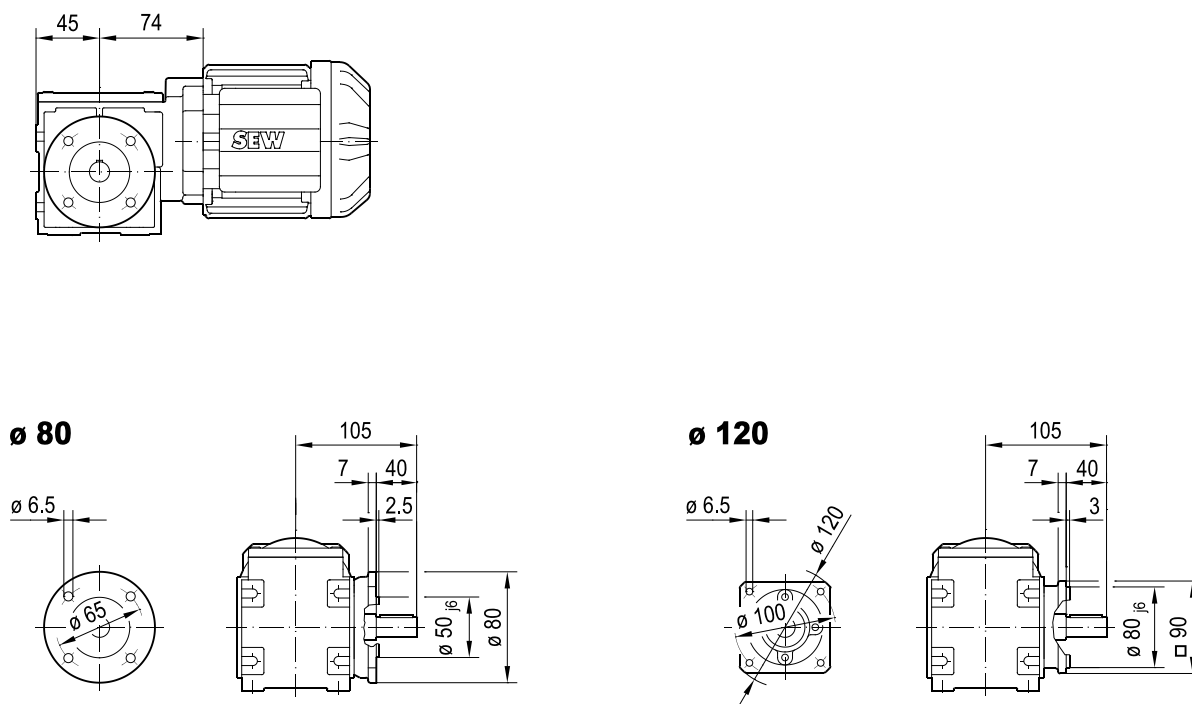
| (→ 7.3) | DR2S | DRN  |     |      |     |  |  |  |
|---------|------|------|-----|------|-----|--|--|--|
|         | 56.. | 63MS | 63M | 71MS | 71M |  |  |  |
| AC      | 109  | 115  | 115 | 139  | 139 |  |  |  |
| AD      | 87   | 98   | 98  | 118  | 118 |  |  |  |
| ADS     | 87   | 98   | 98  | 129  | 129 |  |  |  |
| L       | 255  | 285  | 299 | 301  | 321 |  |  |  |
| LS      | 291  | 341  | 355 | 368  | 388 |  |  |  |
| LB      | 136  | 148  | 162 | 164  | 184 |  |  |  |
| LBS     | 172  | 204  | 218 | 231  | 251 |  |  |  |

## WF10..

20 002 03 14



## DR2S56..

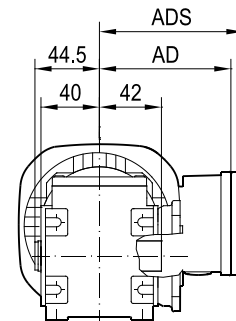
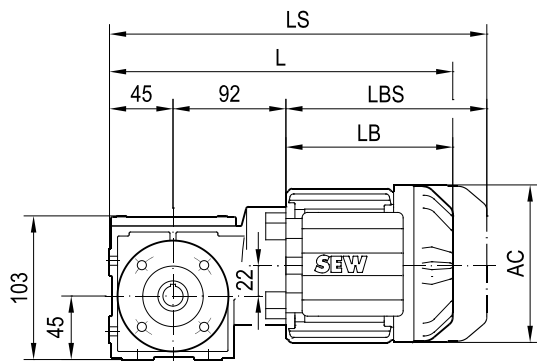


| ( $\rightarrow$ 7.3) | DR2S | DRN  |     |      |     |  |  |  |
|----------------------|------|------|-----|------|-----|--|--|--|
|                      | 56.. | 63MS | 63M | 71MS | 71M |  |  |  |
| AC                   | 109  | 115  | 115 | 139  | 139 |  |  |  |
| AD                   | 87   | 98   | 98  | 118  | 118 |  |  |  |
| ADS                  | 87   | 98   | 98  | 129  | 129 |  |  |  |
| L                    | 255  | 285  | 299 | 301  | 321 |  |  |  |
| LS                   | 291  | 341  | 355 | 368  | 388 |  |  |  |
| LB                   | 136  | 148  | 162 | 164  | 184 |  |  |  |
| LBS                  | 172  | 204  | 218 | 231  | 251 |  |  |  |

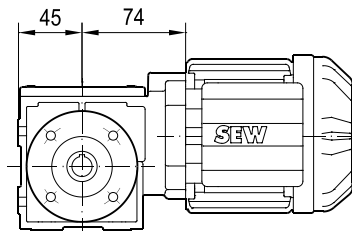
29193850/EN – 02/2020

# WAF10..

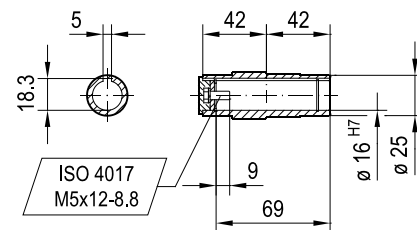
20 058 01 17



# DR2S56..

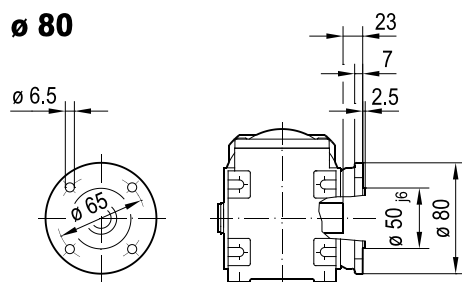


ø 16 H7

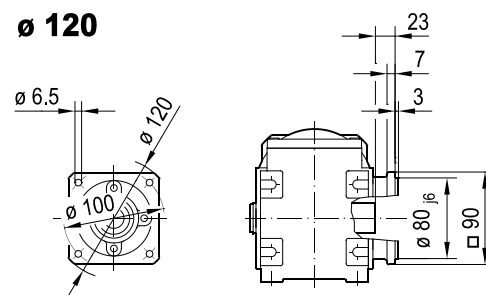


ISO 4017  
M5x12-8.8

ø 80



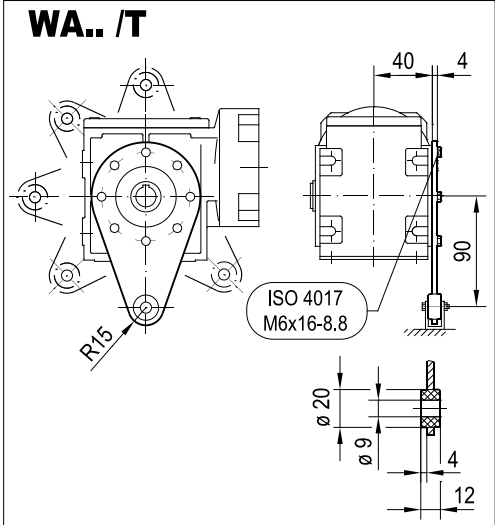
ø 120



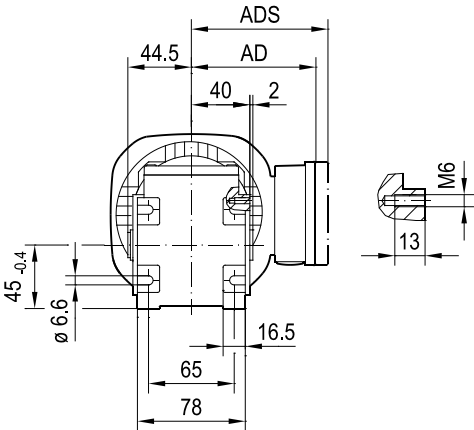
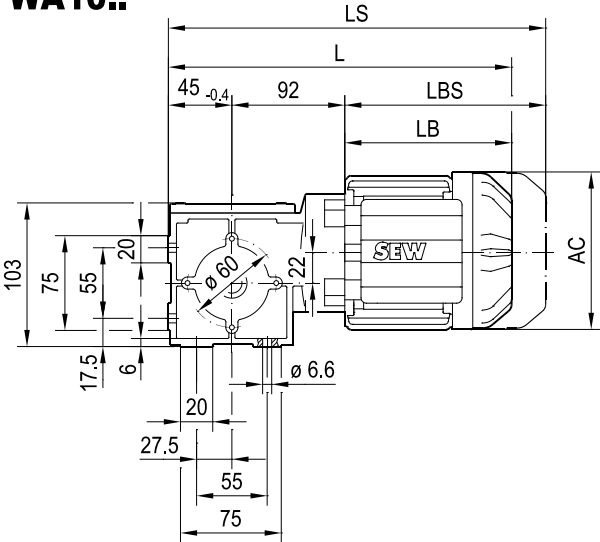
29193850/EN – 02/2020

| (→ 7.3) | DRN  |      |     |      |     |  |  |  |
|---------|------|------|-----|------|-----|--|--|--|
|         | 56.. | 63MS | 63M | 71MS | 71M |  |  |  |
| AC      | 109  | 115  | 115 | 139  | 139 |  |  |  |
| AD      | 87   | 98   | 98  | 118  | 118 |  |  |  |
| ADS     | 87   | 98   | 98  | 129  | 129 |  |  |  |
| L       | 255  | 285  | 299 | 301  | 321 |  |  |  |
| LS      | 291  | 341  | 355 | 368  | 388 |  |  |  |
| LB      | 136  | 148  | 162 | 164  | 184 |  |  |  |
| LBS     | 172  | 204  | 218 | 231  | 251 |  |  |  |

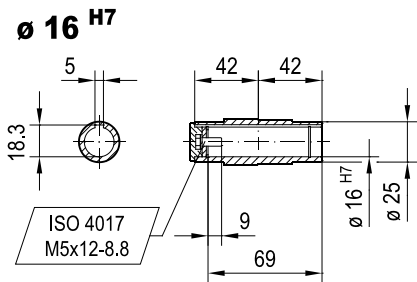
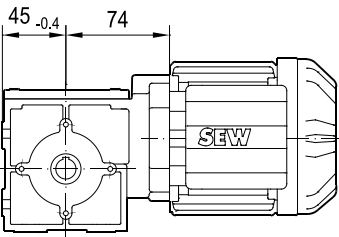
20 003 03 14



### WA10..



### DR2S56..

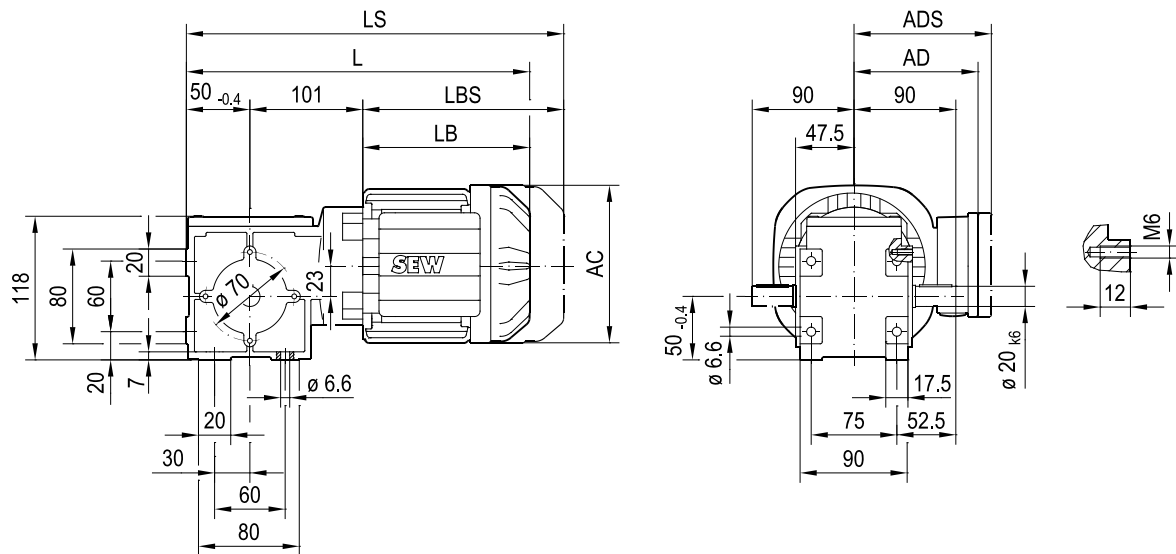


| (→ 7.3) | DRN  |      |      |     |      |     |  |  |
|---------|------|------|------|-----|------|-----|--|--|
|         | DR2S | 56.. | 63MS | 63M | 71MS | 71M |  |  |
| AC      | 109  | 115  | 115  | 139 | 139  |     |  |  |
| AD      | 87   | 98   | 98   | 118 | 118  |     |  |  |
| ADS     | 87   | 98   | 98   | 129 | 129  |     |  |  |
| L       | 255  | 285  | 299  | 301 | 321  |     |  |  |
| LS      | 291  | 341  | 355  | 368 | 388  |     |  |  |
| LB      | 136  | 148  | 162  | 164 | 184  |     |  |  |
| LBS     | 172  | 204  | 218  | 231 | 251  |     |  |  |

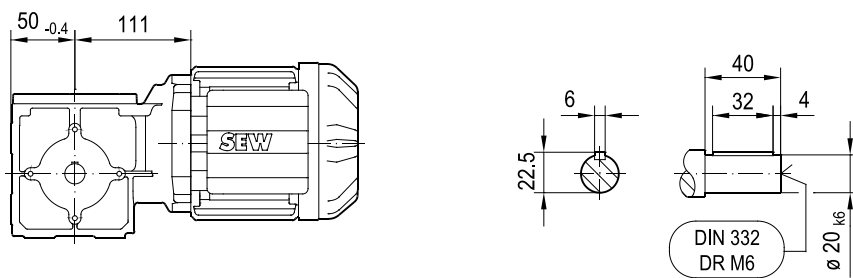
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20 004 01 14

# W20..



# DRN80..

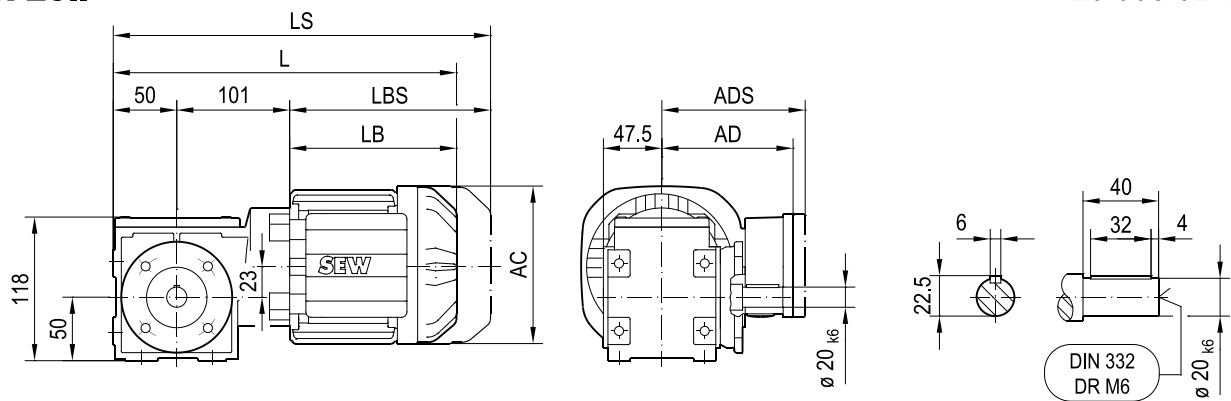


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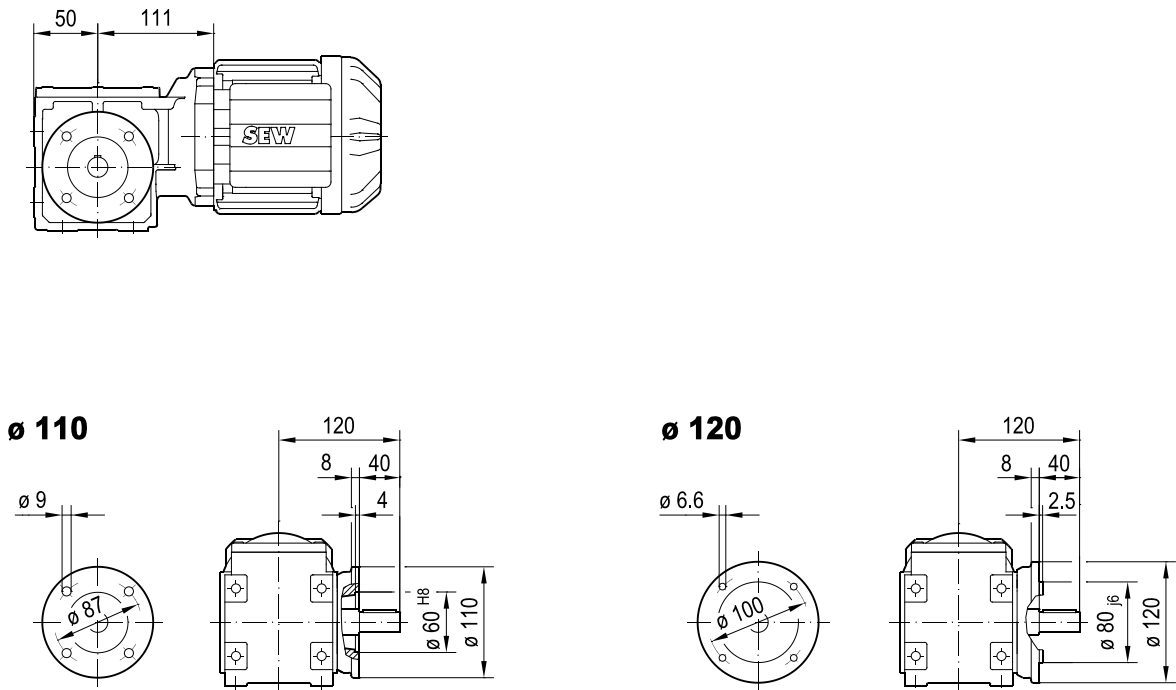
| (→ 7.3) | DRN  |     |      |     |      |  |  |  |
|---------|------|-----|------|-----|------|--|--|--|
|         | 63MS | 63M | 71MS | 71M | 80MK |  |  |  |
| AC      | 115  | 115 | 139  | 139 | 156  |  |  |  |
| AD      | 98   | 98  | 118  | 118 | 128  |  |  |  |
| ADS     | 98   | 98  | 129  | 129 | 139  |  |  |  |
| L       | 299  | 313 | 315  | 335 | 340  |  |  |  |
| LS      | 355  | 369 | 382  | 402 | 421  |  |  |  |
| LB      | 148  | 162 | 164  | 184 | 189  |  |  |  |
| LBS     | 204  | 218 | 231  | 251 | 270  |  |  |  |

## WF20..

20 005 02 14



## DRN80..

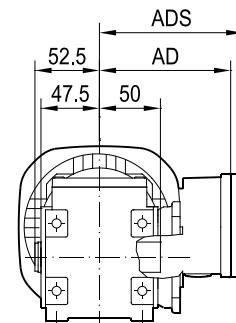
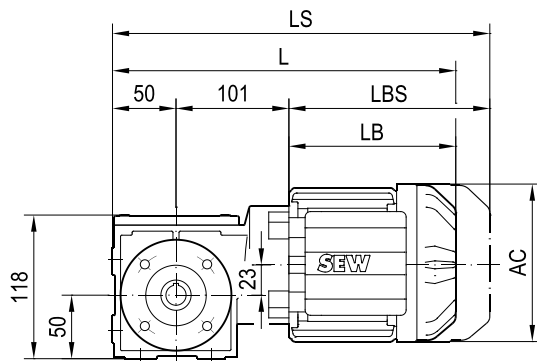


| (→ 7.3) | DRN  |     |      |     |      |  |  |  |
|---------|------|-----|------|-----|------|--|--|--|
|         | 63MS | 63M | 71MS | 71M | 80MK |  |  |  |
| AC      | 115  | 115 | 139  | 139 | 156  |  |  |  |
| AD      | 98   | 98  | 118  | 118 | 128  |  |  |  |
| ADS     | 98   | 98  | 129  | 129 | 139  |  |  |  |
| L       | 299  | 313 | 315  | 335 | 340  |  |  |  |
| LS      | 355  | 369 | 382  | 402 | 421  |  |  |  |
| LB      | 148  | 162 | 164  | 184 | 189  |  |  |  |
| LBS     | 204  | 218 | 231  | 251 | 270  |  |  |  |

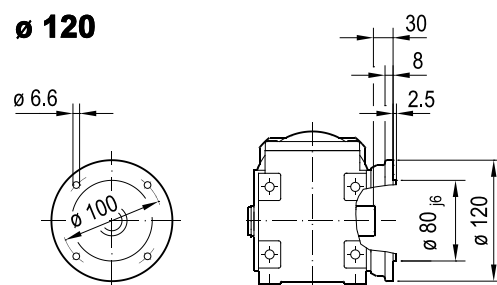
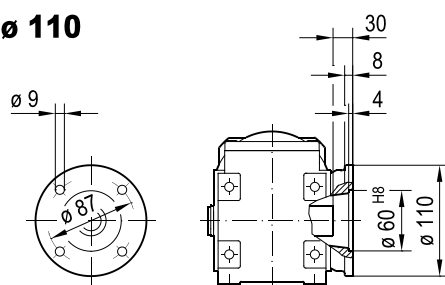
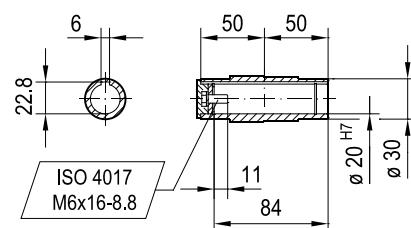
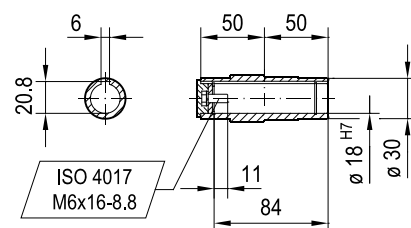
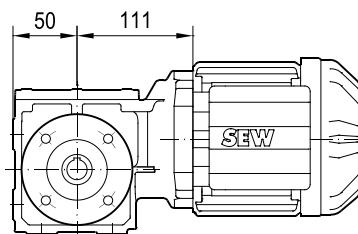
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**WAF20..**

20 059 00 17



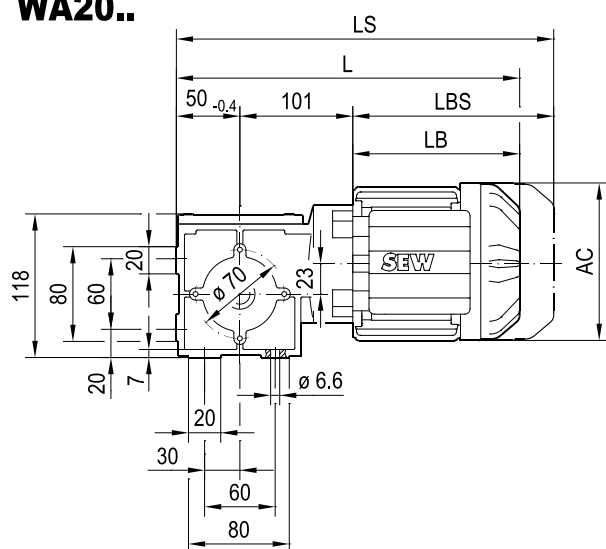
## DRN80..



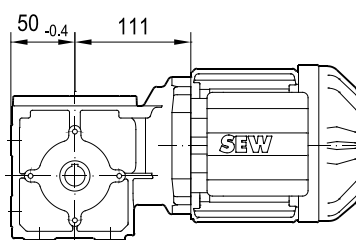
| (→ 📁 7.3) | DRN  |     |      |     |      |  |  |  |
|-----------|------|-----|------|-----|------|--|--|--|
|           | 63MS | 63M | 71MS | 71M | 80MK |  |  |  |
| AC        | 115  | 115 | 139  | 139 | 156  |  |  |  |
| AD        | 98   | 98  | 118  | 118 | 128  |  |  |  |
| ADS       | 98   | 98  | 129  | 129 | 139  |  |  |  |
| L         | 299  | 313 | 315  | 335 | 340  |  |  |  |
| LS        | 355  | 369 | 382  | 402 | 421  |  |  |  |
| LB        | 148  | 162 | 164  | 184 | 189  |  |  |  |
| LBS       | 204  | 218 | 231  | 251 | 270  |  |  |  |

20 006 01 14

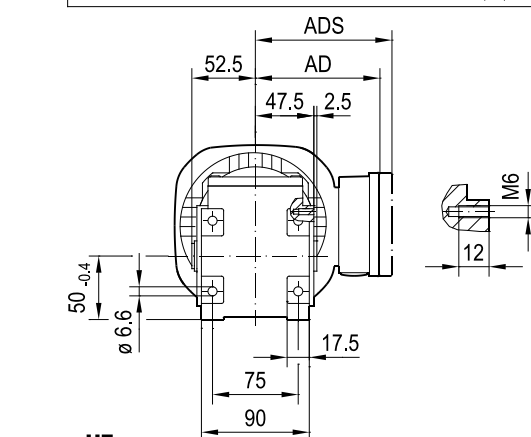
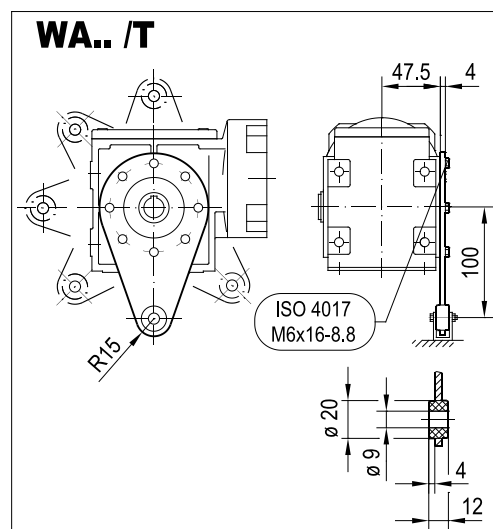
## WA20..



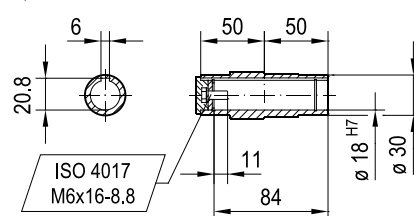
## DRN80..



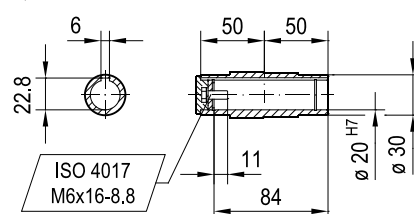
## WA.. /T



## ø 18 H7



## ø 20 H7

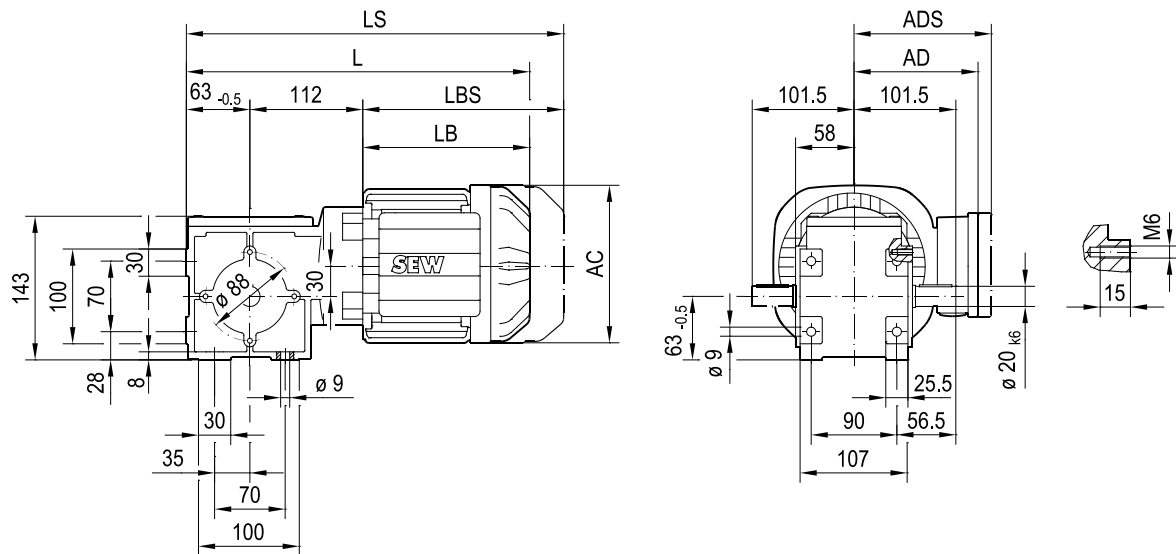


| (→ 7.3) | DRN  |     |      |     |      |  |  |  |
|---------|------|-----|------|-----|------|--|--|--|
|         | 63MS | 63M | 71MS | 71M | 80MK |  |  |  |
| AC      | 115  | 115 | 139  | 139 | 156  |  |  |  |
| AD      | 98   | 98  | 118  | 118 | 128  |  |  |  |
| ADS     | 98   | 98  | 129  | 129 | 139  |  |  |  |
| L       | 299  | 313 | 315  | 335 | 340  |  |  |  |
| LS      | 355  | 369 | 382  | 402 | 421  |  |  |  |
| LB      | 148  | 162 | 164  | 184 | 189  |  |  |  |
| LBS     | 204  | 218 | 231  | 251 | 270  |  |  |  |

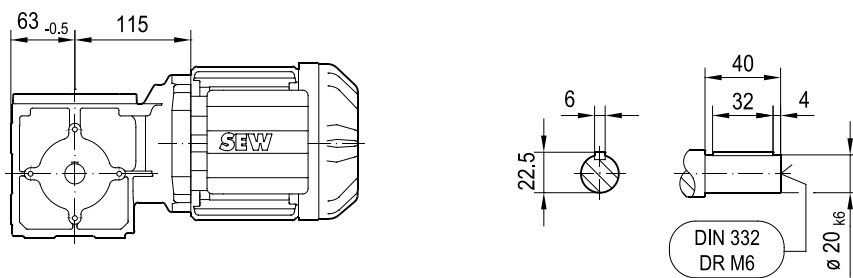
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# W30..

20 007 00 14

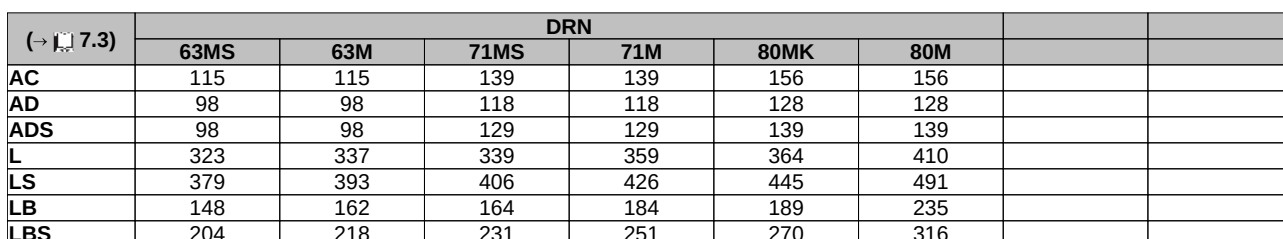


# DRN80..



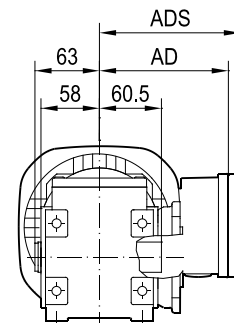
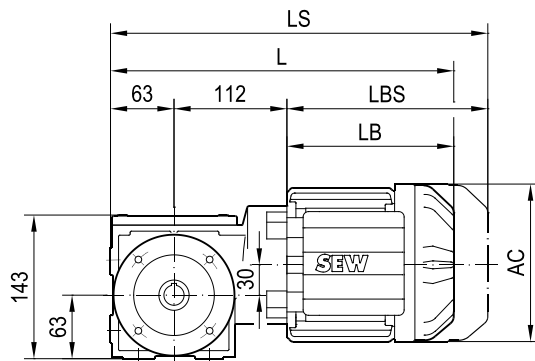
| (→ 7.3) | DRN  |     |      |     |      |     |  |  |
|---------|------|-----|------|-----|------|-----|--|--|
|         | 63MS | 63M | 71MS | 71M | 80MK | 80M |  |  |
| AC      | 115  | 115 | 139  | 139 | 156  | 156 |  |  |
| AD      | 98   | 98  | 118  | 118 | 128  | 128 |  |  |
| ADS     | 98   | 98  | 129  | 129 | 139  | 139 |  |  |
| L       | 323  | 337 | 339  | 359 | 364  | 410 |  |  |
| LS      | 379  | 393 | 406  | 426 | 445  | 491 |  |  |
| LB      | 148  | 162 | 164  | 184 | 189  | 235 |  |  |
| LBS     | 204  | 218 | 231  | 251 | 270  | 316 |  |  |

20 008 01 14

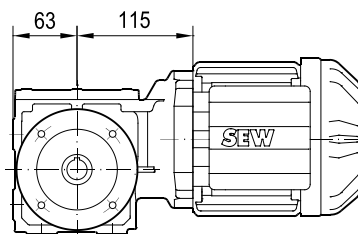


# WAF30..

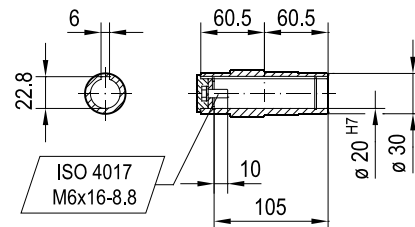
20 009 01 14



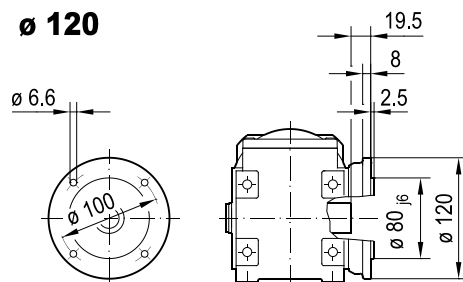
# DRN80..



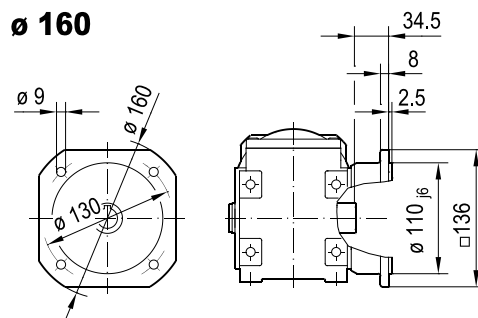
ø 20 H7



ø 120



ø 160

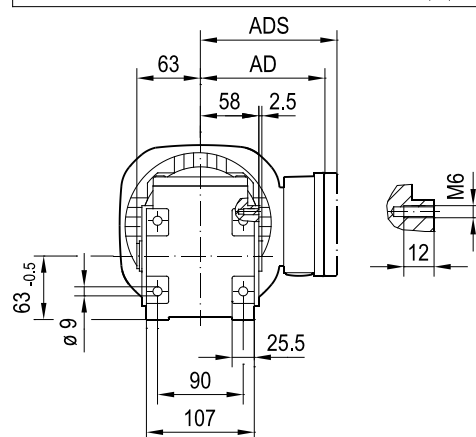
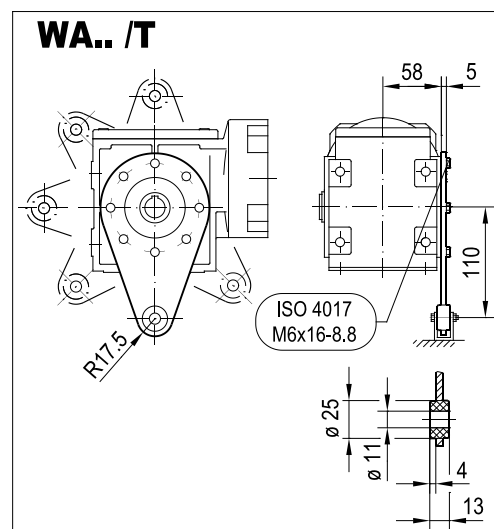
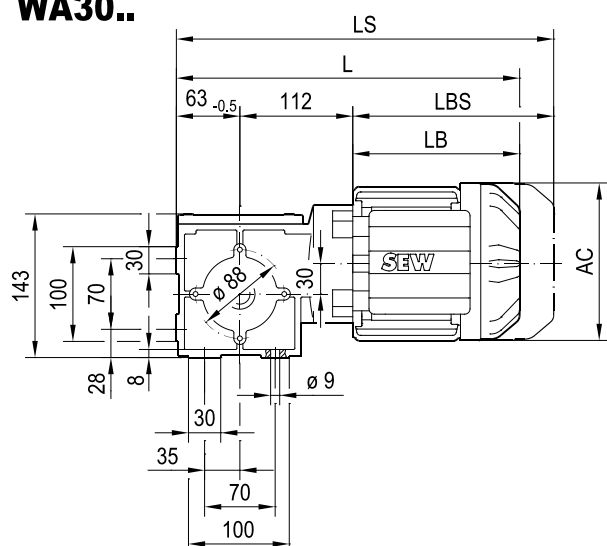


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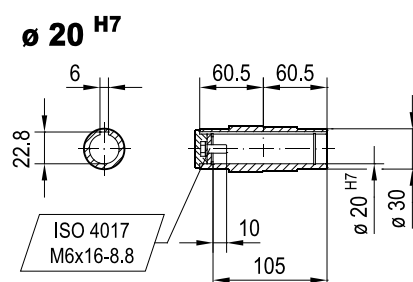
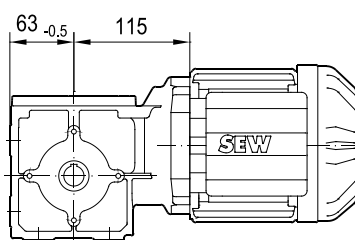
| (→ 7.3) | DRN  |     |      |     |      |     |  |  |
|---------|------|-----|------|-----|------|-----|--|--|
|         | 63MS | 63M | 71MS | 71M | 80MK | 80M |  |  |
| AC      | 115  | 115 | 139  | 139 | 156  | 156 |  |  |
| AD      | 98   | 98  | 118  | 118 | 128  | 128 |  |  |
| ADS     | 98   | 98  | 129  | 129 | 139  | 139 |  |  |
| L       | 323  | 337 | 339  | 359 | 364  | 410 |  |  |
| LS      | 379  | 393 | 406  | 426 | 445  | 491 |  |  |
| LB      | 148  | 162 | 164  | 184 | 189  | 235 |  |  |
| LBS     | 204  | 218 | 231  | 251 | 270  | 316 |  |  |

20 010 01 14

## WA30..

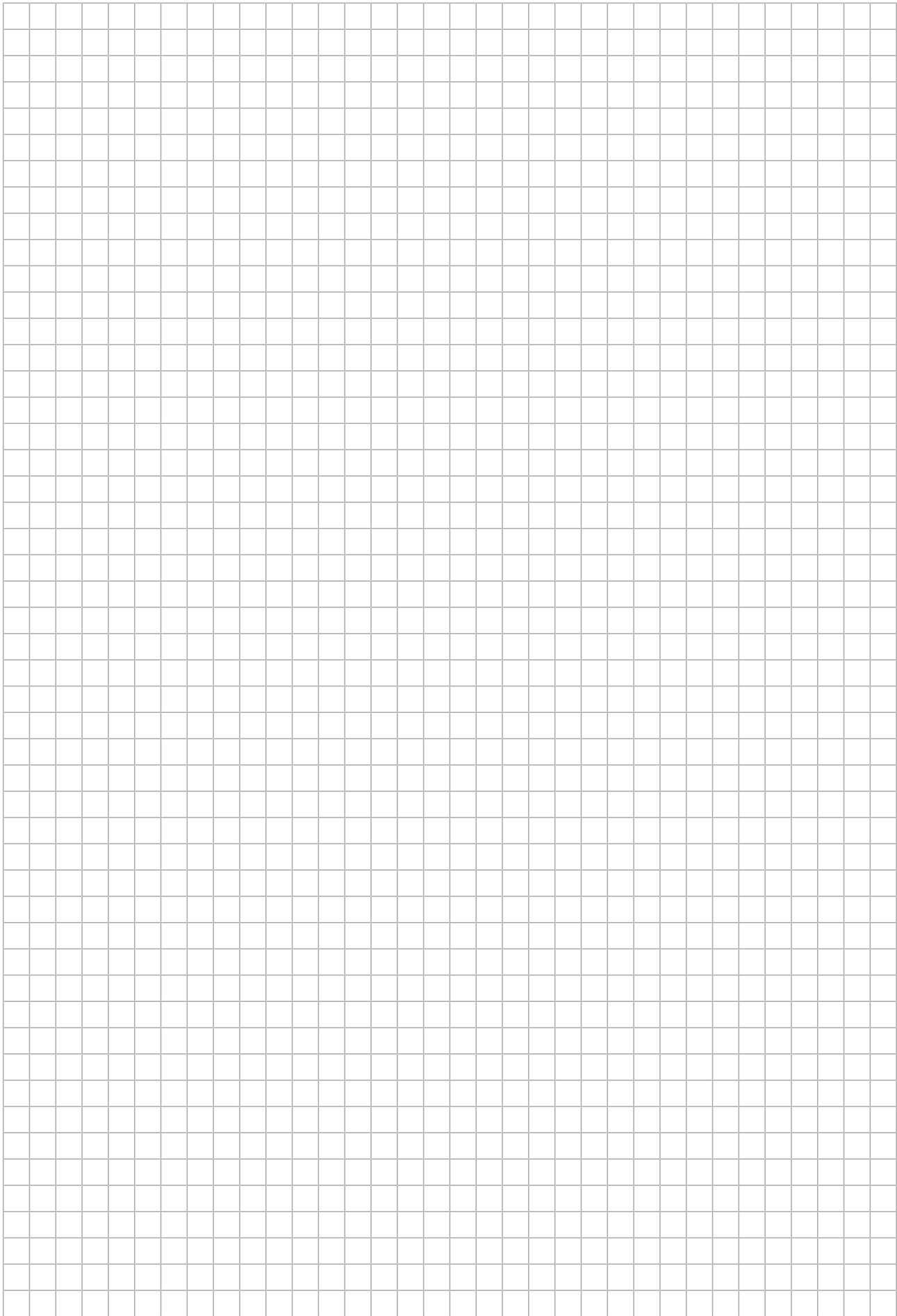


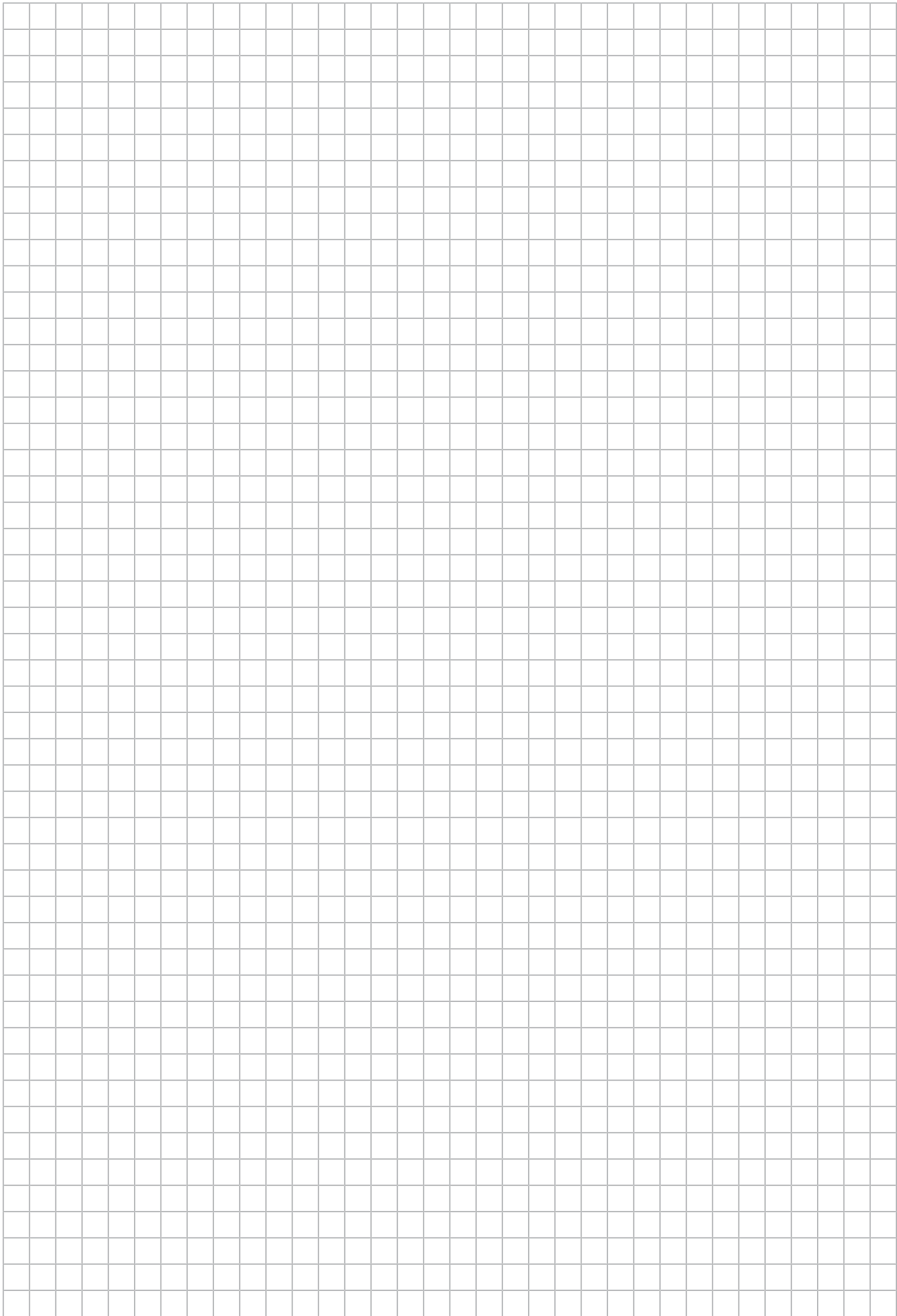
## DRN80..



| (→ 7.3) | DRN  |     |      |     |      |     |  |  |
|---------|------|-----|------|-----|------|-----|--|--|
|         | 63MS | 63M | 71MS | 71M | 80MK | 80M |  |  |
| AC      | 115  | 115 | 139  | 139 | 156  | 156 |  |  |
| AD      | 98   | 98  | 118  | 118 | 128  | 128 |  |  |
| ADS     | 98   | 98  | 129  | 129 | 139  | 139 |  |  |
| L       | 323  | 337 | 339  | 359 | 364  | 410 |  |  |
| LS      | 379  | 393 | 406  | 426 | 445  | 491 |  |  |
| LB      | 148  | 162 | 164  | 184 | 189  | 235 |  |  |
| LBS     | 204  | 218 | 231  | 251 | 270  | 316 |  |  |

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