

TF Shaft Mount Gear Motor

CONTENTS

| Page | |
|----------|-------------------------------------|
| 1 | ▶ SUMMARIZE |
| 2-4 | ▶ PRODUCT STRUCTURE PICTURE |
| 5 | ▶ MODEL ILLUMINATE |
| 6 - 10 | ▶ RELEVANT PARAMETER |
| 11 | ▶ SELECTION EXAMPLE |
| | ◀ GEAR UNIT SELECTION TABLES |
| 12 - 35 | ▶ Possible geometrical combinations |
| 36 - 78 | ▶ TF..Performance parameter |
| 79 - 88 | ▶ TF../TRF..Performance parameter |
| | ◀ OUTLINE DIMENSION SHEET |
| 89 - 132 | ▶ TF.. Outline dimension |
| 133 | ▶ TF../TRF.. Outline dimension |
| 134-135 | ▶ TF..AM(IEC) Outline dimension |
| 136 | ▶ TF..AD Outline dimension |
| | ◀ INSTALLATION |
| 137 | ▶ Mounting positions designation |
| 138-141 | ▶ Mounting positions |
| 141 | ▶ Installation methods |
| | ◀ LUBRICANTS |
| 142 | ▶ Types of lubricants |
| 143 | ▶ Lubricant fill quantity |
| 143-144 | ▶ MAINTENANCE |
| 144 | ▶ STORAGE |
| 144 | ▶ NOTICE FOR ORDER |
| 145 | ▶ MULFUNCTIONS |
| | ADDENDUM |
| 146-147 | ▶ CHARGE CHARACTERISTIC CHART |
| 148 | ▶ SHOW THE SERIES PRODUCTS |

1. SUMMARIZE

TF Series parallel shaft helical gearmotor is a new generation mechanic-electrical integrated product, which designed basing on the modular system. It can be connected respectively with motors such as common motor, brake motor, explosion-proof motor, frequency conversion motor, servo motor, IEC motor and so on. It can be mounted discretionary six orientation in solid space. This kind of product is widely used in drive fields such as textile, foodstuff, beverage, chemical industry, automatic arm ladder, automatic storage equipment, metallurgy, tobacco, environment-protection, logistics and so on.

1.1 PERFORMANCE CHARACTERISTICS

1. Transmission ratio with fine stage covers a wide range;
2. Compact structure takes up small room;
3. low vibration; low noise; low energy dissipation;
4. Deft design; reliable and wearable; wide usage;
5. Modular, multistructure, can be combined in many forms to meet needs of all kinds of transmission conditions.

TF Series parallel shaft helical gearmotor is formed of 2-stage or 3-stage helical gears unit and motor. The helical gear which use the material of high quality alloy steel with the surface hardened takes shape through processing of high-precision equipment. Except the TF..28 housing with aluminum alloy, all are cast iron housing. Housing is exactly processed to ensure the shape and position precision. And it reaches advantageous performance such as: strong bearing capacity, long service-life; small volume; big ratio; light, high efficiency, low noise.

TF Series parallel shaft helical gearmotor has more than ten models. Combined with TRF series, the multi-stage gear reduction can be achieved. Power 0.12-200KW; Ratio 3.77-31434; Torque 130-18000Nm. It can connect (foot, flange) discretionary and use multi-mounting positions according to customers' requirements.

2. PRODUCT PICTURE



TF..MY..



TFF..MY..



**TFA..B MY..
TFV..B MY..**



TFH..B MY..



**TFA..MY..
TFV..MY..**



TFH..MY..



**TFAF..MY..
TFVF..MY..**



TFHF..MY..



**TFAZ..MY..
TFVZ..MY..**



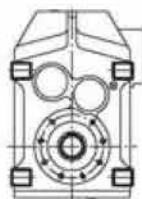
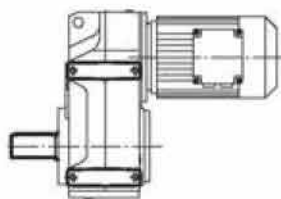
TFHZ..MY..



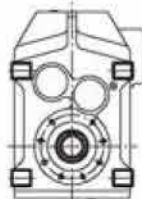
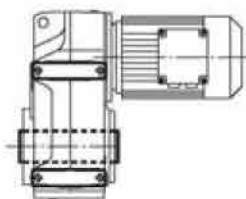
TF..AM(IEC)..



TF..AD..

2.2 designs**TF..MY..**

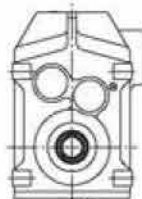
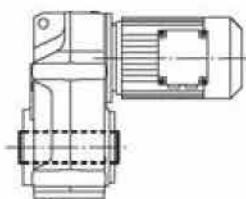
Foot-mounted parallel shaft helical geared motor

**TFA..B MY..**

Foot-mounted parallel shaft helical geared motor with hollow shaft

TFV..B MY..

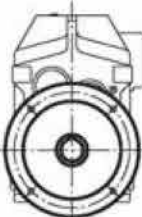
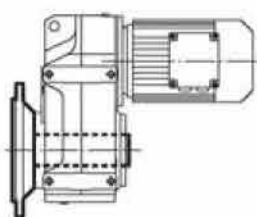
Foot-mounted parallel shaft helical geared motor with splined hollow shaft to DIN 5480

**TFA..MY..**

parallel shaft helical geared motor with hollow shaft

TFV..MY..

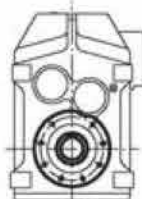
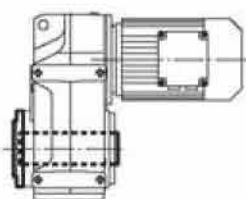
parallel shaft helical geared motor with splined hollow shaft to DIN 5480

**TFAF..MY..**

parallel shaft helical geared motor in B5 flange-mounted version with hollow shaft

TFVF..MY..

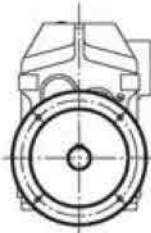
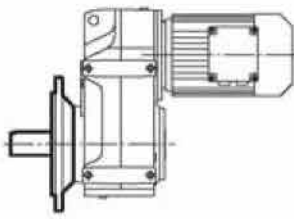
parallel shaft helical geared motor in B5 flange-mounted version with splined hollow shaft to DIN 5480

**TFAZ..MY..**

parallel shaft helical geared motor in B14 flange-mounted version with hollow shaft

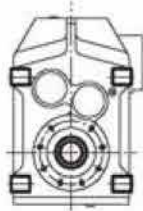
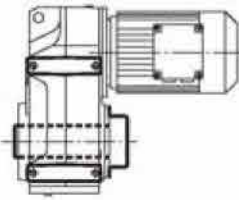
TFVZ..MY..

parallel shaft helical geared motor in B14 flange-mounted version with splined hollow shaft to DIN 5480



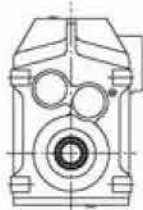
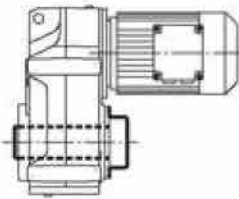
TFF..MY..

parallel shaft helical geared motor in B5 flange-mounted version



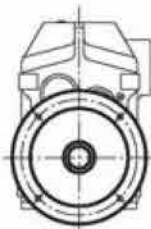
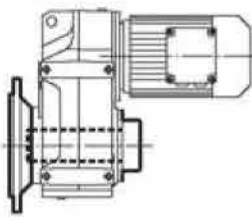
TFH..B MY..

Foot-mounted parallel shaft helical geared motor with hollow shaft and shrink disk



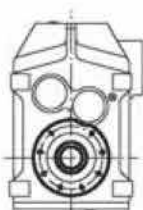
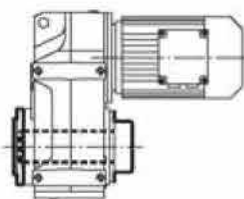
TFH..MY..

parallel shaft helical geared motor with hollow shaft and shrink disk



TFHF..MY..

parallel shaft helical geared motor in B5 flange-mounted version with hollow shaft and shrink disk



TFHZ..MY..

parallel shaft helical geared motor in B14 flange-mounted with hollow shaft and shrink disk

3. MODEL ILLUMINATE

TF A 88 B - MY 180 M 4 / BMG / HF / TF - 21.32 - M6 / 270°

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

| No | Comments |
|----|--|
| 1 | TF: code for gear units series |
| 2 | 1). no code means foot-mounted 2). A: hollow shaft 3). H: hollow shaft with shrink disk 4). V: splined hollow shaft to DIN 5480 5). F: B5 flange-mounted 6). Z: B14 flange-mounted |
| 3 | specification code of gear units 28, 38, |
| 4 | 1). B: foot-mounted 2). /G: torque arm-mounted |
| 5 | 1). MY: motor code 2). AM: IEC input couplings |
| 6 | specification code of motor (high in motor centre) |
| 7 | length code of stator core D, K, L, M, ML, N, S |
| 8 | pole number of motor 2, 4, 6, 8 |
| 9 | 1). no code means no brake 2). BMG: brake |
| 10 | 1). no code means no manual release device 2). HF: manual release device with self-locking function 3). HR: manual release device with outself-locking function |
| 11 | 1). no code means no motor heat-protection device 2). TF: motor heat- protection device |
| 12 | transmission ratio of gear units i |
| 13 | M1: mounting positio, default mounting position M1 not to write out is ok |
| 14 | Position diagram for motor terminal box default position 0°(R) not to write out is ok |

Example: **TF48 - MY71D4 - 79.72**
TFF58 - AM80 - 127.27
TFAF68 - MY90L4 / BMG -32.08



4. RELEVANT PARAMETER

4.1 Power P

$$P_1 = \frac{P_2}{\eta} \text{ [kW]}$$

$$P_{1n} \geq P_1 \cdot f_s \text{ [kW]}$$

| | |
|----------|---------------------------|
| P_1 | Input power |
| P_2 | Output power |
| P_{1n} | Rated power driving motor |
| f_s | Service factor |
| η | Transmission efficiency |

The efficiency of TF Series gear units varies with the number of gear stages, between **94 % (3-stage)**, **96% (2-stage)** and **98 % (1-stage)**.

4.2 Rotation speed n

| | |
|-------|-------------------------|
| n_1 | Gear units input speed |
| n_2 | Gear units output speed |

If driven by the external gearing, 1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life. Higher input rotation speed is permitted, but in this situation, the rated torque M_2 will be reduced.

4.3 Transmission ratio i

$$i = \frac{n_1}{n_2}$$

Usually transmission ratio is decimal fraction with 2 radix point tagged in selection tables.

4.4 Torque M

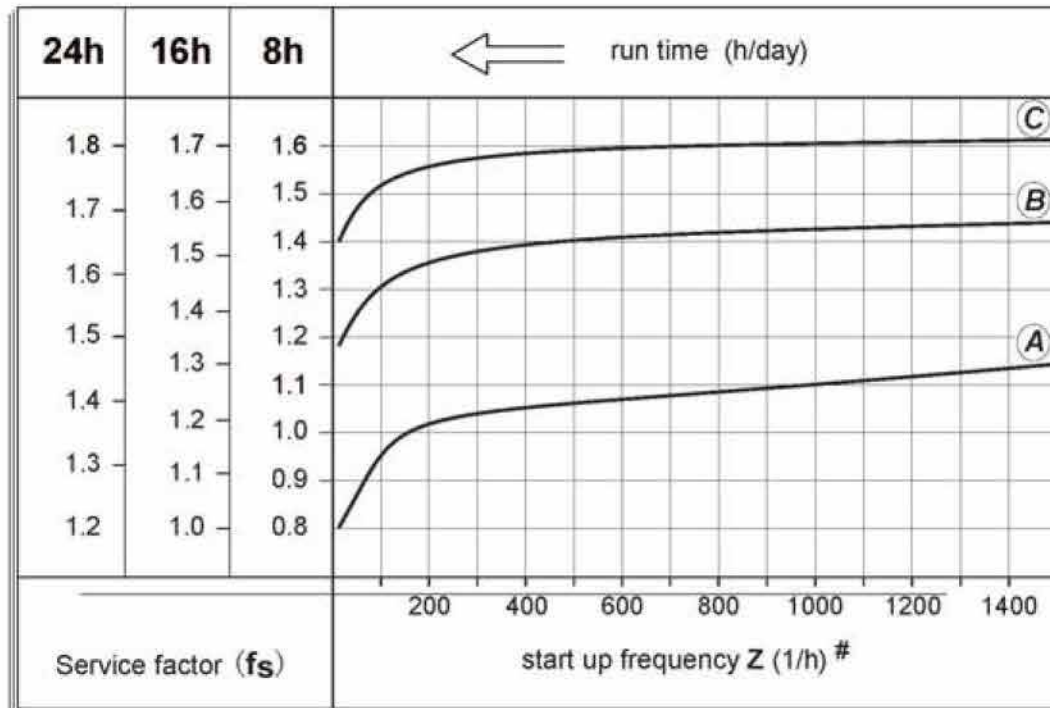
$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

$$M_{2n} \geq M_2 \cdot f_s \text{ [Nm]}$$

| | |
|----------|-------------------------|
| M_2 | Output torque |
| M_{2n} | Selected output torque |
| P_1 | Input power |
| η | Transmission efficiency |
| f_s | Service factor |

4.5 Service factor f_s

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor f_s . The service factor is determined according to the daily operating time and the starting frequency Z . Three load classifications are considered depending on the mass acceleration factor. You can read off the service factor applicable to your application in following Figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.



starting frequency Z: The cycles include all starting and braking procedures as well as change overs from low to high speed.

4.5.1 load classifications

- (A) Uniform, permitted mass acceleration factor $f_a \leq 0.2$
- (B) Moderate shock load, permitted mass acceleration factor $f_a \leq 3$
- (C) Heavy shock load, permitted mass acceleration factor $f_a \leq 10$

Load classifications see the addendum

4.5.2 Mass acceleration factor

The mass acceleration factor is calculated as follows:

$$f_a = \frac{J_c}{J_m}$$

f_a Mass acceleration factor

J_c All external mass moments of inertia (kgm²)

J_m Mass moment of inertia on the motor end (kgm²)

If mass acceleration factors $f_a > 10$, please call our Technical Service.

To keep the service-life of gear units, the use factor f_s selected from the catalogue must be equal or slightly higher than the calculated use factor f_s .

RELEVANT PARAMETER

4.6 Radial loads F_r

When determining the resulting radial loads, the type of transmission elements, mounted on the shaft end must be considered. Various transmission elements are corresponding with following transmission element factors f_z :

| Transmission element | Transmission element factor F_z | Comments |
|-------------------------|-----------------------------------|--------------------------------|
| Gears | 1.00 | ≥ 17 teeth |
| | 1.15 | < 17 teeth |
| Chain sprockets | 1.00 | ≥ 20 teeth |
| | 1.25 | < 20 teeth |
| | 1.40 | < 13 teeth |
| V Narrow V-belt pulleys | 1.75 | Influence of the tensile force |
| Flat belt pulleys | 2.50 | Influence of the tensile force |
| Toothed belt pulleys | 2.50 | Influence of the tensile force |

The overhung loads exerted on the motor or gear shaft is then calculated as follows:

$$F_r = \frac{M \cdot 2000 \cdot f_z}{d_0} \text{ [N]}$$

F_r Resulting radial load [N]

M Torque on the shaft [Nm]

d_0 Mean diameter of the mounted transmission element in [mm]

f_z Transmission element factor

The basis for determining the permitted radial loads is the computation of the rated service life **LH10** of the bearings (according to **ISO281**). For special operating conditions, the permitted radial loads can be determined with regard to the modified service life L_{na} . The permitted radial loads F_{r2} for the output shafts of foot-mounted gear units with a solid shaft are listed in the selection tables. Contact our company in case of other versions.

The permitted radial loads given in the selection tables must be calculated using the following formula in the event of force application not in the center of the shaft end. The smaller of the two values F_{xL} (according to bearing service life) and F_{xW} (according to shaft strength) is the permitted value for the radial load at point x . Note that the calculations apply to $M_{2 \max}$.

$$F_{xL} = F_{r2} \cdot \frac{a}{b+x} \text{ [N]}$$

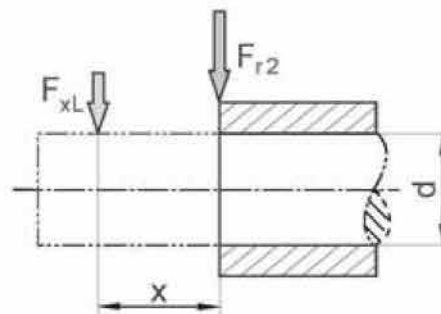
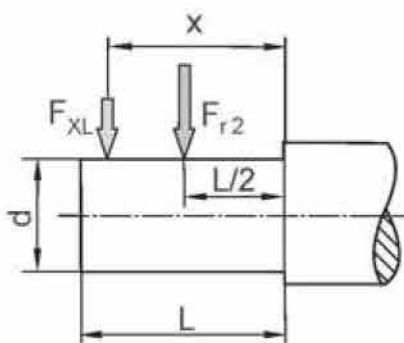
$$F_{xW} = F_{r2} \cdot \frac{c}{f+x} \text{ [N]}$$

F_{r2} Permitted overhung load ($x = L/2$) for foot-mounted gear units according to the selection tables in [N]

x Distance from the shaft shoulder to the force application point in [mm]





a, b, f Gear unit constant for overhung load conversion [mm]

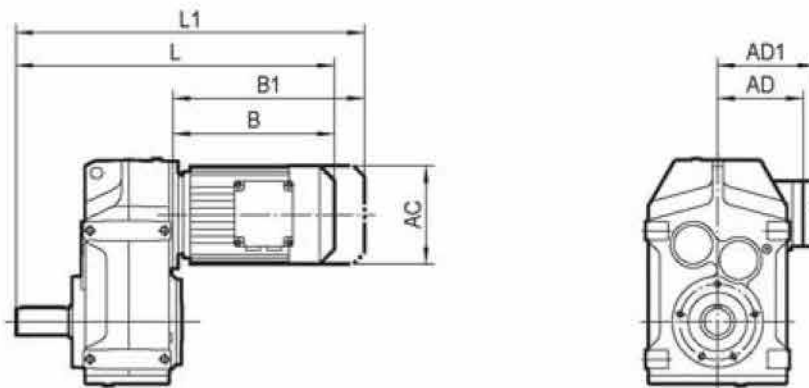
c Gear unit constant for overhung load conversion [Nmm]



| Gear unit type | a [mm] | b [mm] | c [Nmm] | f [mm] | d [mm] | L [mm] |
|----------------|--------|--------|--------------------|--------|--------|--------|
| TF28 | 109.5 | 84.5 | 1.13×10^5 | 0 | 25 | 50 |
| TF38 | 123.5 | 98.5 | 1.07×10^5 | 0 | 25 | 50 |
| TF48 | 153.5 | 123.5 | 1.78×10^5 | 0 | 30 | 60 |
| TF58 | 170.7 | 135.7 | 5.49×10^5 | 32 | 35 | 70 |
| TF68 | 181.3 | 141.3 | 4.12×10^5 | 0 | 40 | 80 |
| TF78 | 215.8 | 165.8 | 7.87×10^5 | 0 | 50 | 100 |
| TF88 | 263 | 203 | 1.19×10^6 | 0 | 60 | 120 |
| TF98 | 350 | 280 | 2.09×10^6 | 0 | 70 | 140 |
| TF108 | 373.5 | 288.5 | 4.23×10^6 | 0 | 90 | 170 |
| TF128 | 442.5 | 337.5 | 9.45×10^6 | 0 | 110 | 210 |
| TF158 | 512 | 407 | 1.05×10^7 | 0 | 120 | 210 |

4.7. Selection tables comments

| | |
|--|---|
|  | Combination with the motor in the header row is possible |
|  | Combination with the motor in the header row is not possible |
| * | Finite gear unit reduction ratio; |
| P_{1n} | Rated power driving motor [kW]; |
| n_2 | Output speed [r/min]; |
| M_{2n} | Output torque [Nm]; |
| M_{2max} | Max. permissible output torque [Nm] |
| F_{r2} | Permissible overhung load output side [N] |
| i | Gear unit ratio; |
| f_s | Service factor; |
|  | Gear unit type; |
|  | Motor type; |
| Page | Dimension sheet page no; |



- L** Total length of gearmotor;
- L1** Total length of gearmotor including brake;
- B** Length of motor;
- B1** Length of brake motor;
- AC** Diameter of motor;
- AD** Center of motor shaft to top part of terminal box;
- AD1** Center of brake motor shaft to top part of terminal box.

5. SELECTION EXAMPLE

5.1 Gear motor

Example: Required power 30kW on driven machine, work for 16h/day, moderate shock load, so $f_s=1.4$, **M5** foot-mounted, $n_2=55.4$ r/min

$$i = \frac{n_1}{n_2} = \frac{1400}{55.4} = 25.27$$

$$P_{1n} \geq P_1 \cdot f_s = \frac{P_2}{\eta} \cdot f_s = \frac{30}{0.94} \times 1.4 = 44.68 \text{ [kW]}$$

Choose type:

TF128 - MY225M4 - 25.30 - M5

5.2 Gear units

Example: Required torque 5000Nrn on driven machine, work 8h/day, uniform load, so $f_s=1.2$, flange-mounted, $n_2 = 4$ r/min, choose TF../TRF..

$$i = \frac{n_1}{n_2} = \frac{1400}{4} = 350$$

$$M_{2n} \geq M_2 \cdot f_s = 5000 \times 1.2 = 6000 \text{ [Nm]}$$

$$P_{1n} \geq P_1 \cdot f_s = \frac{M_2 \cdot n_1}{9550 \cdot \eta \cdot i} \cdot f_s = \frac{5000 \times 1400}{9550 \times 0.94 \times 0.96 \times 350} \times 1.2 = 2.78 \text{ [kW]}$$

Choose type:

TFF108 / TRF78 - 333

6. GEAR UNIT SELECTION TABLES

6.1 Possible geometrical combinations

TF..28

$n_1=1400$ r/min

130Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AD.. | P_1 (AD input power) |
|------------------|---------------------|---------------|--------|------------------------|--------------|--------------|------|---------------------------|
| 3Stage | | | | | | | | |
| 9.9 | 130 | 4500 | 140.74 | | | | AD1 | 0.16 |
| 11 | 130 | 4500 | 129.09 | | | | AD1 | 0.18 |
| 13 | 130 | 4500 | 109.90 | | | | AD1 | 0.20 |
| 15 | 130 | 4500 | 94.76 | | | | AD1 | 0.23 |
| 16 | 130 | 4500 | 88.32 | | | | AD1 | 0.25 |
| 18 | 130 | 4500 | 77.21 | | | | AD1 | 0.28 |
| 19 | 130 | 4500 | 72.37 | | | | AD1 | 0.30 |
| 22 | 130 | 4400 | 63.86 | | | | AD1 | 0.34 |
| 25 | 130 | 4190 | 56.62 | | | | AD1 | 0.38 |
| 28 | 130 | 3980 | 50.19 | | | | AD1 | 0.42 |
| 30 | 130 | 3860 | 46.78 | | | | AD1 | 0.45 |
| 34 | 130 | 3640 | 40.89 | | | | AD1 | 0.51 |
| 37 | 130 | 3530 | 38.33 | | | | AD1 | 0.55 |
| 41 | 130 | 3340 | 33.83 | | | | AD1 | 0.62 |
| 2Stage | | | | | | | | |
| 47 | 130 | 3150 | 29.56 | | | | AD2 | 0.70 |
| 52 | 130 | 3030 | 27.18 | | | | AD2 | 0.76 |
| 60 | 130 | 2820 | 23.25 | | | | AD2 | 0.88 |
| 69 | 130 | 2630 | 20.15 | | | | AD2 | 1.0 |
| 74 | 130 | 2550 | 18.84 | | | | AD2 | 1.1 |
| 86 | 130 | 2370 | 16.28 | | | | AD2 | 1.2 |
| 101 | 130 | 2180 | 13.84 | | | | AD2 | 1.5 |
| 113 | 130 | 2060 | 12.35 | | | | AD2 | 1.6 |
| 133 | 130 | 1900 | 10.55 | | | | AD2 | 1.9 |
| 142 | 130 | 1830 | 9.88 | | | | AD2 | 2.0 |
| 149 | 130 | 1660 | 9.40 | | | | AD2 | 2.1 |
| 172 | 123 | 1590 | 8.13 | | | | AD2 | 2.3 |
| 203 | 114 | 1530 | 6.91 | | | | AD2 | 2.5 |
| 227 | 109 | 1480 | 6.17 | | | | AD2 | 2.7 |
| 266 | 100 | 1440 | 5.27 | | | | AD2 | 2.9 |
| 284 | 96 | 1420 | 4.93 | | | | AD2 | 3.0 |
| 337 | 87 | 1380 | 4.16 | | | | AD2 | 3.2 |

TF..28/TRF18

$n_1=1400$ r/min

130Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|---------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.16 | 130 | 4500 | 8972 | | |
| 0.18 | 130 | 4500 | 7736 | | |
| 0.19 | 130 | 4500 | 7211 | | |
| 0.22 | 130 | 4500 | 6303 | | |
| 0.26 | 130 | 4500 | 5435 | | |
| 0.29 | 130 | 4500 | 4855 | | |
| 0.33 | 130 | 4500 | 4243 | | |
| 0.38 | 130 | 4500 | 3715 | | |
| 0.43 | 130 | 4500 | 3247 | | |

TF..28/TRF18

$n_1 = 1400$ r/min

130Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|--------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.49 | 130 | 4500 | 2878 | | |
| 0.56 | 130 | 4500 | 2515 | | |
| 0.63 | 130 | 4500 | 2217 | | |
| 2Stage / 3Stage | | | | | |
| 0.74 | 130 | 4500 | 1898 | | |
| 0.85 | 130 | 4500 | 1645 | | |
| 0.92 | 130 | 4500 | 1525 | | |
| 1.1 | 130 | 4500 | 1322 | | |
| 1.2 | 130 | 4500 | 1146 | | |
| 1.4 | 130 | 4500 | 1013 | | |
| 1.6 | 130 | 4500 | 890 | | |
| 1.8 | 130 | 4500 | 778 | | |
| 2.1 | 130 | 4500 | 682 | | |
| 2.3 | 130 | 4500 | 602 | | |
| 2.7 | 130 | 4500 | 520 | | |
| 3Stage / 2Stage | | | | | |
| 0.72 | 130 | 4500 | 1948 | | |
| 0.77 | 130 | 4500 | 1826 | | |
| 0.87 | 130 | 4500 | 1610 | | |
| 1.0 | 130 | 4500 | 1399 | | |
| 1.1 | 130 | 4500 | 1230 | | |
| 1.5 | 130 | 4500 | 948 | | |
| 1.7 | 130 | 4500 | 829 | | |
| 1.9 | 130 | 4500 | 731 | | |
| 2.2 | 130 | 4500 | 633 | | |
| 2.5 | 130 | 4500 | 551 | | |
| 2.9 | 130 | 4500 | 489 | | |
| 3.3 | 130 | 4500 | 427 | | |
| 3.7 | 130 | 4500 | 379 | | |
| 4.3 | 130 | 4500 | 326 | | |
| 4.9 | 130 | 4500 | 288 | | |
| 5.6 | 130 | 4500 | 251 | | |
| 6.3 | 130 | 4500 | 221 | | |
| 8.1 | 130 | 4500 | 172 | | |
| 9.2 | 130 | 4500 | 153 | | |
| 11 | 130 | 4500 | 130 | | |
| 2Stage / 2Stage | | | | | |
| 3.1 | 130 | 4500 | 458 | | |
| 3.5 | 130 | 4500 | 397 | | |
| 4.1 | 130 | 4500 | 342 | | |
| 4.6 | 130 | 4500 | 302 | | |
| 5.3 | 130 | 4500 | 266 | | |
| 5.9 | 130 | 4500 | 236 | | |
| 6.6 | 130 | 4500 | 211 | | |
| 7.5 | 130 | 4500 | 186 | | |
| 9.9 | 130 | 4500 | 142 | | |
| 11 | 130 | 4500 | 124 | | |
| 13 | 130 | 4500 | 109 | | |
| 15 | 130 | 4500 | 96 | | |

TF..38

$n_1=1400$ r/min

200Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AD.. | P_1 (AD Input power) |
|------------------|-------------------|---------------|--------|------------------------|--------------|--------------|----------------|------|---------------------------|
| 3Stage | | | | | | | | | |
| 11 | 200 | 4290 | 128.51 | | | | | AD1 | 0.26 |
| 12 | 200 | 4290 | 117.88 | | | | | AD1 | 0.28 |
| 14 | 200 | 4290 | 100.36 | | | | | AD1 | 0.33 |
| 16 | 200 | 4290 | 86.53 | | | | | AD1 | 0.38 |
| 17 | 200 | 4290 | 80.65 | | | | | AD1 | 0.40 |
| 20 | 200 | 4290 | 70.50 | | | | | AD1 | 0.46 |
| 21 | 200 | 4290 | 66.09 | | | | | AD1 | 0.49 |
| 24 | 200 | 4290 | 58.32 | | | | | AD1 | 0.55 |
| 26 | 200 | 4290 | 54.54 | | | | | AD1 | 0.58 |
| 27 | 200 | 4290 | 51.70 | | | | | AD1 | 0.62 |
| 30 | 200 | 4290 | 47.02 | | | | | AD2 | 0.69 |
| 32 | 200 | 4290 | 43.83 | | | | | AD2 | 0.74 |
| 37 | 200 | 4290 | 38.31 | | | | | AD2 | 0.84 |
| 39 | 200 | 4290 | 35.91 | | | | | AD2 | 0.90 |
| 44 | 200 | 4290 | 31.69 | | | | | AD2 | 1.0 |
| 50 | 200 | 4060 | 28.09 | | | | | AD2 | 1.1 |
| 59 | 200 | 3760 | 23.88 | | | | | AD2 | 1.3 |
| 2Stage | | | | | | | | | |
| 59 | 200 | 3740 | 23.63 | | | | | AD2 | 1.3 |
| 68 | 200 | 3500 | 20.57 | | | | | AD2 | 1.5 |
| 73 | 200 | 3390 | 19.27 | | | | | AD2 | 1.6 |
| 82 | 200 | 3180 | 17.03 | | | | | AD2 | 1.8 |
| 89 | 200 | 3070 | 15.81 | | | | | AD2 | 2.0 |
| 98 | 200 | 2910 | 14.33 | | | | | AD2 | 2.2 |
| 109 | 200 | 2750 | 12.87 | | | | | AD2 | 2.4 |
| 126 | 190 | 2620 | 11.08 | | | | | AD2 | 2.6 |
| 134 | 185 | 2580 | 10.42 | | | | | AD2 | 2.7 |
| 156 | 175 | 2460 | 8.97 | | | | | AD2 | 3.0 |
| 175 | 170 | 2360 | 8.01 | | | | | AD2 | 3.2 |
| 188 | 145 | 2350 | 7.44 | | | | | AD2 | 2.5 |
| 208 | 140 | 2270 | 6.74 | | | | | AD2 | 3.2 |
| 231 | 135 | 2190 | 6.05 | | | | | AD2 | 3.4 |
| 269 | 125 | 2120 | 5.21 | | | | | AD2 | 3.7 |
| 286 | 120 | 2100 | 4.90 | | | | | AD2 | 3.7 |
| 332 | 110 | 2030 | 4.22 | | | | | AD2 | 4.0 |
| 371 | 105 | 1970 | 3.77 | | | | | AD2 | 4.3 |

TF..38/TRF18

$n_1=1400$ r/min

200Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.17 | 200 | 4290 | 8193 | | |
| 0.20 | 200 | 4290 | 7064 | | |
| 0.21 | 200 | 4290 | 6585 | | |
| 0.24 | 200 | 4290 | 5756 | | |
| 0.28 | 200 | 4290 | 4963 | | |
| 0.32 | 200 | 4290 | 4434 | | |
| 0.36 | 200 | 4290 | 3875 | | |
| 0.41 | 200 | 4290 | 3392 | | |
| 0.47 | 200 | 4290 | 2965 | | |

TF..38/TRF18

$n_1=1400$ r/min

200Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|-----------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.54 | 200 | 4290 | 2587 | | |
| 0.61 | 200 | 4290 | 2284 | | |
| 0.70 | 200 | 4290 | 1997 | | |
| 0.80 | 200 | 4290 | 1742 | | |
| 0.91 | 200 | 4290 | 1545 | | |
| 2Stage / 3Stage | | | | | |
| 0.73 | 200 | 4290 | 1929 | | |
| 0.83 | 200 | 4290 | 1679 | | |
| 0.90 | 200 | 4290 | 1550 | | |
| 1.0 | 200 | 4290 | 1356 | | |
| 1.2 | 200 | 4290 | 1180 | | |
| 1.3 | 200 | 4290 | 1044 | | |
| 1.5 | 200 | 4290 | 914 | | |
| 1.7 | 200 | 4290 | 808 | | |
| 2.0 | 200 | 4290 | 698 | | |
| 2.3 | 200 | 4290 | 616 | | |
| 2.6 | 200 | 4290 | 544 | | |
| 3.0 | 200 | 4290 | 466 | | |
| 3.4 | 200 | 4290 | 411 | | |
| 3.8 | 200 | 4290 | 364 | | |
| 3Stage / 2Stage | | | | | |
| 1.0 | 200 | 4290 | 1370 | | |
| 1.2 | 200 | 4290 | 1198 | | |
| 1.3 | 200 | 4290 | 1047 | | |
| 1.5 | 200 | 4290 | 915 | | |
| 1.7 | 200 | 4290 | 807 | | |
| 2.0 | 200 | 4290 | 707 | | |
| 2.3 | 200 | 4290 | 617 | | |
| 2.6 | 200 | 4290 | 538 | | |
| 2.9 | 200 | 4290 | 477 | | |
| 3.4 | 200 | 4290 | 412 | | |
| 3.8 | 200 | 4290 | 365 | | |
| 4.3 | 200 | 4290 | 322 | | |
| 5.0 | 200 | 4290 | 278 | | |
| 5.8 | 200 | 4290 | 242 | | |
| 6.3 | 200 | 4290 | 221 | | |
| 7.2 | 200 | 4290 | 195 | | |
| 8.3 | 200 | 4290 | 168 | | |
| 9.5 | 200 | 4290 | 147 | | |
| 11 | 200 | 4290 | 127 | | |
| 12 | 200 | 4290 | 121 | | |
| 13 | 200 | 4290 | 108 | | |
| 15 | 200 | 4290 | 91 | | |
| 2Stage / 2Stage | | | | | |
| 4.3 | 200 | 4290 | 326 | | |
| 4.9 | 200 | 4290 | 285 | | |
| 5.6 | 200 | 4290 | 250 | | |
| 6.4 | 200 | 4290 | 219 | | |
| 7.5 | 200 | 4290 | 186 | | |
| 8.4 | 200 | 4290 | 167 | | |
| 9.7 | 200 | 4290 | 145 | | |

TF..38/TRF18

$n_1=1400$ r/min

200Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------|--------------------|---------------|-----|--------------|------|
| 2Stage / 2Stage | | | | | |
| 11 | 200 | 4290 | 129 | | |
| 12 | 200 | 4290 | 118 | | |
| 14 | 200 | 4290 | 98 | | |
| 16 | 200 | 4290 | 87 | | |

TF..48

$n_1=1400$ r/min

400Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AD.. | P_1 (AD Input power) |
|------------------|--------------------|---------------|---------|------------------------|--------------|--------------|----------------|------|---------------------------|
| 3Stage | | | | | | | | | |
| 7.3 | 400 | 5920 | 190.76 | | | | | AD1 | 0.35 |
| 8.0 | 400 | 5920 | 175.38 | | | | | AD1 | 0.37 |
| 9.3 | 400 | 5920 | 150.06 | | | | | AD1 | 0.43 |
| 11 | 400 | 5920 | 130.07 | | | | | AD1 | 0.50 |
| 12 | 400 | 5920 | 121.57 | | | | | AD1 | 0.53 |
| 13 | 400 | 5920 | 105.09 | | | | | AD1 | 0.61 |
| 16 | 400 | 5920 | 89.29 | | | | | AD1 | 0.71 |
| 18 | 400 | 5920 | 79.72 | | | | | AD1 | 0.80 |
| 21 | 400 | 5920 | 68.09 | | | | | AD1 | 0.94 |
| 21 | 400 | 5920 | 65.36 | | | | | AD2 | 0.98 |
| 25 | 400 | 5920 | 56.49 | | | | | AD2 | 1.1 |
| 29 | 400 | 5920 | 48.00 * | | | | | AD2 | 1.3 |
| 33 | 400 | 5920 | 42.86 | | | | | AD2 | 1.5 |
| 38 | 400 | 5920 | 36.61 | | | | | AD2 | 1.7 |
| 41 | 400 | 5920 | 34.29 | | | | | AD2 | 1.8 |
| 48 | 400 | 5790 | 28.88 | | | | | AD2 | 2.2 |
| 2Stage | | | | | | | | | |
| 45 | 400 | 5920 | 30.86 | | | | | AD2 | 2.0 |
| 48 | 400 | 5830 | 29.32 | | | | | AD2 | 2.1 |
| 54 | 400 | 5470 | 25.72 | | | | | AD2 | 2.4 |
| 64 | 400 | 5030 | 21.82 | | | | | AD2 | 2.8 |
| 71 | 400 | 4770 | 19.70 | | | | | AD2 | 3.1 |
| 81 | 400 | 4450 | 17.33 | | | | | AD2 | 3.5 |
| 86 | 400 | 4320 | 16.36 | | | | | AD2 | 3.7 |
| 101 | 400 | 3950 | 13.93 | | | | | AD2 | 4.4 |
| 111 | 400 | 3740 | 12.66 | | | | | AD2 | 4.8 |
| 128 | 400 | 3440 | 10.97 | | | | | AD2 | 5.3 |
| 156 | 330 | 3250 | 8.96 | | | | | AD2 | 4.3 |
| 178 | 380 | 2630 | 7.88 | | | | | AD2 | 4.5 |
| 188 | 380 | 2530 | 7.44 * | | | | | AD2 | 4.6 |
| 221 | 350 | 2470 | 6.34 | | | | | AD2 | 4.8 |
| 243 | 340 | 2390 | 5.76 | | | | | AD2 | 5.1 |
| 281 | 320 | 2310 | 4.99 | | | | | AD2 | 5.3 |

TF..48/TRF18

$n_1 = 1400$ r/min

400Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|-----------------|-------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.11 | 400 | 5920 | 12251 | | |
| 0.13 | 400 | 5920 | 10619 | | |
| 0.14 | 400 | 5920 | 9846 | | |
| 0.16 | 400 | 5920 | 8534 | | |
| 0.19 | 400 | 5920 | 7460 | | |
| 0.21 | 400 | 5920 | 6536 | | |
| 0.24 | 400 | 5920 | 5746 | | |
| 0.28 | 400 | 5920 | 5022 | | |
| 0.32 | 400 | 5920 | 4401 | | |
| 0.36 | 400 | 5920 | 3883 | | |
| 0.41 | 400 | 5920 | 3443 | | |
| 0.47 | 400 | 5920 | 2976 | | |
| 0.53 | 400 | 5920 | 2629 | | |
| 0.61 | 400 | 5920 | 2304 | | |
| 0.69 | 400 | 5920 | 2033 | | |
| 2Stage / 3Stage | | | | | |
| 0.56 | 400 | 5920 | 2519 | | |
| 0.58 | 400 | 5920 | 2394 | | |
| 0.64 | 400 | 5920 | 2172 | | |
| 0.69 | 400 | 5920 | 2025 | | |
| 0.79 | 400 | 5920 | 1770 | | |
| 0.89 | 400 | 5920 | 1576 | | |
| 1.0 | 400 | 5920 | 1363 | | |
| 1.2 | 400 | 5920 | 1192 | | |
| 1.3 | 400 | 5920 | 1061 | | |
| 1.5 | 400 | 5920 | 931 | | |
| 1.7 | 400 | 5920 | 822 | | |
| 2.0 | 400 | 5920 | 706 | | |
| 2.3 | 400 | 5920 | 619 | | |
| 3Stage / 2Stage | | | | | |
| 0.78 | 400 | 5920 | 1785 | | |
| 0.89 | 400 | 5920 | 1578 | | |
| 1.0 | 400 | 5920 | 1364 | | |
| 1.2 | 400 | 5920 | 1203 | | |
| 1.3 | 400 | 5920 | 1049 | | |
| 1.5 | 400 | 5920 | 918 | | |
| 1.7 | 400 | 5920 | 809 | | |
| 2.0 | 400 | 5920 | 700 | | |
| 2.3 | 400 | 5920 | 622 | | |
| 2.6 | 400 | 5920 | 543 | | |
| 2.9 | 400 | 5920 | 475 | | |
| 3.3 | 400 | 5920 | 419 | | |
| 3.8 | 400 | 5920 | 370 | | |
| 4.3 | 400 | 5920 | 324 | | |
| 4.9 | 400 | 5920 | 288 | | |
| 5.6 | 400 | 5920 | 249 | | |
| 6.4 | 400 | 5920 | 218 | | |
| 7.3 | 400 | 5920 | 193 | | |
| 8.0 | 400 | 5920 | 175 | | |
| 9.5 | 400 | 5920 | 147 | | |
| 11 | 400 | 5920 | 130 | | |

TF..48/TRF18

$n_1=1400$ r/min

400Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|--------------------|---------------|-----|--------------|------|
| 2Stage / 2Stage | | | | | |
| 2.7 | 400 | 5920 | 524 | | |
| 2.9 | 400 | 5920 | 489 | | |
| 3.3 | 400 | 5920 | 427 | | |
| 3.7 | 400 | 5920 | 381 | | |
| 4.2 | 400 | 5920 | 334 | | |
| 4.7 | 400 | 5920 | 295 | | |
| 5.5 | 400 | 5920 | 253 | | |
| 6.5 | 400 | 5920 | 217 | | |
| 7.4 | 400 | 5920 | 190 | | |
| 7.9 | 400 | 5920 | 178 | | |
| 9.4 | 400 | 5920 | 149 | | |
| 11 | 400 | 5920 | 131 | | |

TF..58

$n_1=1400$ r/min

600Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AD.. | P_1 (AD input power) |
|------------------|--------------------|---------------|--------|------------------------|--------------|--------------|----------------|----------------|----------------------------|------|---------------------------|
| 3Stage | | | | | | | | | | | |
| 7.0 | 600 | 9200 | 199.70 | | | | | | | AD2 | 0.49 |
| 7.6 | 600 | 9200 | 183.60 | | | | | | | AD2 | 0.54 |
| 8.9 | 600 | 9200 | 157.09 | | | | | | | AD2 | 0.62 |
| 10 | 600 | 9200 | 136.16 | | | | | | | AD2 | 0.72 |
| 11 | 600 | 9200 | 127.27 | | | | | | | AD2 | 0.76 |
| 13 | 600 | 9200 | 110.01 | | | | | | | AD2 | 0.88 |
| 15 | 600 | 9200 | 93.47 | | | | | | | AD2 | 1.0 |
| 17 | 600 | 9200 | 83.46 | | | | | | | AD2 | 1.1 |
| 19 | 600 | 9200 | 72.98 | | | | | | | AD2 | 1.3 |
| 21 | 600 | 9200 | 68.22 | | | | | | | AD2 | 1.4 |
| 24 | 600 | 9200 | 58.97 | | | | | | | AD2 | 1.6 |
| 28 | 600 | 9200 | 50.10 | | | | | | | AD2 | 1.9 |
| 31 | 600 | 9160 | 44.73 | | | | | | | AD2 | 2.1 |
| 37 | 600 | 8510 | 38.21 | | | | | | | AD2 | 2.4 |
| 39 | 600 | 8250 | 35.79 | | | | | | | AD2 | 2.6 |
| 46 | 590 | 7650 | 30.15 | | | | | | | AD2 | 3.1 |
| 2Stage | | | | | | | | | | | |
| 35 | 290 | 10500 | 40.13 | | | | | | | AD2 | 1.0 |
| 41 | 500 | 8670 | 34.24 | | | | | | | AD2 | 2.0 |
| 47 | 545 | 7890 | 29.94 | | | | | | | AD2 | 2.1 |
| 49 | 535 | 7760 | 28.45 | | | | | | | AD2 | 2.2 |
| 56 | 575 | 7060 | 24.96 | | | | | | | AD2 | 3.5 |
| 66 | 600 | 6350 | 21.17 | | | | | | | AD3 | 4.4 |
| 73 | 600 | 6020 | 19.11 | | | | | | | AD3 | 4.8 |
| 83 | 600 | 5620 | 16.81 | | | | | | | AD3 | 5.4 |
| 88 | 600 | 5450 | 15.88 | | | | | | | AD3 | 5.8 |
| 104 | 600 | 4980 | 13.52 | | | | | | | AD3 | 6.8 |
| 114 | 600 | 4710 | 12.29 | | | | | | | AD3 | 7.5 |
| 132 | 600 | 4320 | 10.64 | | | | | | | AD3 | 8.6 |
| 150 | 420 | 4760 | 9.31 | | | | | | | AD3 | 5.1 |
| 171 | 420 | 4450 | 8.19 | | | | | | | AD3 | 7.5 |
| 181 | 420 | 4310 | 7.73 | | | | | | | AD3 | 7.7 |
| 213 | 420 | 3940 | 6.58 | | | | | | | AD3 | 8.2 |

POSSIBLE GEOMETRICAL COMBINATIONS

TF..58

$n_1=1400$ r/min

600Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AD.. | P_1 (AD input power) |
|------------------|-------------------|-----------------|------|------------------------|--------------|--------------|----------------|----------------|----------------------------|------|---------------------------|
| 2Stage | | | | | | | | | | | |
| 234 | 420 | 3730 | 5.98 | | | | | | | AD3 | 8.5 |
| 270 | 415 | 3460 | 5.18 | | | | | | | AD3 | 9.0 |

TF..58/TRF38

$n_1=1400$ r/min

600Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|-----------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.09 | 600 | 9200 | 14832 | | | | |
| 0.10 | 600 | 9200 | 13604 | | | | |
| 0.11 | 600 | 9200 | 12602 | | | | |
| 0.12 | 600 | 9200 | 11252 | | | | |
| 0.14 | 600 | 9200 | 9986 | | | | |
| 0.16 | 600 | 9200 | 8787 | | | | |
| 0.18 | 600 | 9200 | 7908 | | | | |
| 0.20 | 600 | 9200 | 6913 | | | | |
| 0.23 | 600 | 9200 | 6030 | | | | |
| 0.26 | 600 | 9200 | 5289 | | | | |
| 0.30 | 600 | 9200 | 4654 | | | | |
| 0.34 | 600 | 9200 | 4060 | | | | |
| 0.39 | 600 | 9200 | 3564 | | | | |
| 0.44 | 600 | 9200 | 3161 | | | | |
| 0.51 | 600 | 9200 | 2737 | | | | |
| 0.58 | 600 | 9200 | 2409 | | | | |
| 0.66 | 600 | 9200 | 2131 | | | | |
| 0.76 | 600 | 9200 | 1840 | | | | |
| 0.86 | 600 | 9200 | 1623 | | | | |
| 0.97 | 600 | 9200 | 1439 | | | | |
| 1.1 | 600 | 9200 | 1238 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.49 | 600 | 9200 | 2854 | | | | |
| 0.54 | 600 | 9200 | 2576 | | | | |
| 0.62 | 600 | 9200 | 2266 | | | | |
| 0.70 | 600 | 9200 | 2012 | | | | |
| 0.78 | 600 | 9200 | 1791 | | | | |
| 0.87 | 600 | 9200 | 1617 | | | | |
| 0.98 | 600 | 9200 | 1422 | | | | |
| 1.1 | 600 | 9200 | 1243 | | | | |
| 1.3 | 600 | 9200 | 1066 | | | | |
| 1.5 | 600 | 9200 | 949 | | | | |
| 1.6 | 600 | 9200 | 856 | | | | |
| 1.9 | 600 | 9200 | 749 | | | | |
| 2.1 | 600 | 9200 | 658 | | | | |
| 2.6 | 600 | 9200 | 549 | | | | |
| 2.9 | 600 | 9200 | 483 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 1.3 | 600 | 9200 | 1106 | | | | |
| 1.4 | 600 | 9200 | 967 | | | | |
| 1.6 | 600 | 9200 | 851 | | | | |
| 1.9 | 600 | 9200 | 738 | | | | |
| 2.2 | 600 | 9200 | 646 | | | | |

TF..58TRF38

$n_1=1400$ r/min

600Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|--------------------|---------------|-----|--------------|------|------|-------|
| 3Stage / 2Stage | | | | | | | |
| 2.5 | 600 | 9200 | 558 | | | | |
| 2.8 | 600 | 9200 | 506 | | | | |
| 3.1 | 600 | 9200 | 452 | | | | |
| 3.6 | 600 | 9200 | 386 | | | | |
| 4.1 | 600 | 9200 | 338 | | | | |
| 5.5 | 600 | 9200 | 255 | | | | |
| 7.0 | 600 | 9200 | 201 | | | | |
| 7.7 | 600 | 9200 | 181 | | | | |
| 9.0 | 600 | 9200 | 155 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 3.3 | 600 | 9200 | 426 | | | | |
| 3.7 | 600 | 9200 | 382 | | | | |
| 4.2 | 600 | 9200 | 330 | | | | |
| 4.7 | 600 | 9200 | 298 | | | | |
| 5.3 | 600 | 9200 | 262 | | | | |
| 6.2 | 600 | 9200 | 226 | | | | |
| 7.0 | 600 | 9200 | 200 | | | | |
| 8.2 | 600 | 9200 | 170 | | | | |
| 9.2 | 600 | 9200 | 152 | | | | |
| 10 | 600 | 9200 | 134 | | | | |

TF..68

$n_1=1400$ r/min

820Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AD.. | P_1 (AD input power) |
|------------------|--------------------|---------------|---------|------------------------|--------------|--------------|----------------|----------------|----------------------------|------|---------------------------|
| 3Stage | | | | | | | | | | | |
| 6.1 | 820 | 10300 | 228.99 | | | | | | | AD2 | 0.59 |
| 7.2 | 820 | 10300 | 195.39 | | | | | | | AD2 | 0.68 |
| 8.2 | 820 | 10300 | 170.85 | | | | | | | AD2 | 0.77 |
| 8.6 | 820 | 10300 | 162.31 | | | | | | | AD2 | 0.81 |
| 9.8 | 820 | 10300 | 142.40 | | | | | | | AD2 | 0.93 |
| 12 | 820 | 10300 | 120.79 | | | | | | | AD2 | 1.1 |
| 13 | 820 | 10300 | 109.04 | | | | | | | AD2 | 1.2 |
| 15 | 820 | 10300 | 95.94 | | | | | | | AD2 | 1.4 |
| 15 | 820 | 10300 | 90.59 | | | | | | | AD2 | 1.4 |
| 18 | 820 | 10300 | 79.76 | | | | | | | AD2 | 1.6 |
| 21 | 820 | 10300 | 67.65 | | | | | | | AD2 | 1.9 |
| 23 | 820 | 10300 | 61.07 | | | | | | | AD2 | 2.1 |
| 26 | 820 | 10300 | 53.73 | | | | | | | AD2 | 2.4 |
| 28 | 820 | 10300 | 50.74 | | | | | | | AD2 | 2.5 |
| 32 | 820 | 10300 | 43.20 | | | | | | | AD2 | 3.0 |
| 36 | 780 | 10700 | 39.26 | | | | | | | AD2 | 3.1 |
| 41 | 740 | 11000 | 34.01 | | | | | | | AD2 | 3.4 |
| 2Stage | | | | | | | | | | | |
| 39 | 820 | 10300 | 36.30 | | | | | | | AD2 | 2.5 |
| 44 | 820 | 10300 | 32.08 | | | | | | | AD3 | 3.9 |
| 51 | 820 | 10300 | 27.41 | | | | | | | AD3 | 4.6 |
| 56 | 820 | 10300 | 25.13 | | | | | | | AD3 | 5.0 |
| 63 | 820 | 10300 | 22.05 | | | | | | | AD3 | 5.7 |
| 67 | 820 | 10300 | 20.90 * | | | | | | | AD3 | 6.0 |

POSSIBLE GEOMETRICAL COMBINATIONS

TF..68

$n_1=1400$ r/min

820Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AD.. | P_{\uparrow} (AD Input power) |
|------------------|--------------------|---------------|-------|------------------------|--------------|--------------|----------------|----------------|----------------------------|------|------------------------------------|
| 2Stage | | | | | | | | | | | |
| 77 | 820 | 10300 | 18.29 | | | | | | | AD3 | 6.8 |
| 85 | 820 | 10300 | 16.48 | | | | | | | AD3 | 7.6 |
| 97 | 820 | 10300 | 14.46 | | | | | | | AD3 | 8.7 |
| 110 | 820 | 10300 | 12.76 | | | | | | | AD3 | 9.6 |
| 124 | 820 | 10300 | 11.31 | | | | | | | AD3 | 10.1 |
| 145 | 820 | 10300 | 9.66 | | | | | | | AD3 | 10.6 |
| 154 | 530 | 11400 | 9.08 | | | | | | | AD3 | 7.6 |
| 163 | 570 | 10900 | 8.60 | | | | | | | AD3 | 7.8 |
| 186 | 610 | 10100 | 7.53 | | | | | | | AD3 | 8.3 |
| 206 | 620 | 9660 | 6.78 | | | | | | | AD3 | 8.7 |
| 235 | 610 | 9200 | 5.95 | | | | | | | AD3 | 9.1 |
| 267 | 590 | 8850 | 5.25 | | | | | | | AD3 | 9.6 |
| 300 | 560 | 8590 | 4.66 | | | | | | | AD3 | 10.0 |
| 353 | 500 | 8390 | 3.97 | | | | | | | AD3 | 10.6 |

TF..68/TRF38

$n_1=1400$ r/min

820Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|--------------------|---------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.07 | 820 | 10300 | 19199 | | | | |
| 0.08 | 820 | 10300 | 17610 | | | | |
| 0.09 | 820 | 10300 | 14992 | | | | |
| 0.11 | 820 | 10300 | 12926 | | | | |
| 0.12 | 820 | 10300 | 11480 | | | | |
| 0.14 | 820 | 10300 | 10220 | | | | |
| 0.16 | 820 | 10300 | 8933 | | | | |
| 0.18 | 820 | 10300 | 7940 | | | | |
| 0.20 | 820 | 10300 | 7096 | | | | |
| 0.23 | 820 | 10300 | 6080 | | | | |
| 0.26 | 820 | 10300 | 5341 | | | | |
| 0.30 | 820 | 10300 | 4690 | | | | |
| 0.34 | 820 | 10300 | 4091 | | | | |
| 0.39 | 820 | 10300 | 3574 | | | | |
| 0.45 | 820 | 10300 | 3133 | | | | |
| 0.51 | 820 | 10300 | 2756 | | | | |
| 0.57 | 820 | 10300 | 2439 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.41 | 820 | 10300 | 3377 | | | | |
| 0.48 | 820 | 10300 | 2912 | | | | |
| 0.52 | 820 | 10300 | 2714 | | | | |
| 0.59 | 820 | 10300 | 2372 | | | | |
| 0.66 | 820 | 10300 | 2126 | | | | |
| 0.75 | 820 | 10300 | 1859 | | | | |
| 0.86 | 820 | 10300 | 1631 | | | | |
| 0.97 | 820 | 10300 | 1437 | | | | |
| 1.1 | 820 | 10300 | 1256 | | | | |
| 1.2 | 820 | 10300 | 1126 | | | | |
| 1.4 | 820 | 10300 | 984 | | | | |
| 1.6 | 820 | 10300 | 864 | | | | |
| 1.9 | 820 | 10300 | 722 | | | | |

TF..68/TRF38

$n_1 = 1400$ r/min

820Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|--------------------|---------------|------|--------------|------|------|-------|
| 2Stage / 3Stage | | | | | | | |
| 2.2 | 820 | 10300 | 634 | | | | |
| 2.6 | 820 | 10300 | 539 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 0.66 | 820 | 10300 | 2106 | | | | |
| 0.74 | 820 | 10300 | 1884 | | | | |
| 0.86 | 820 | 10300 | 1635 | | | | |
| 0.98 | 820 | 10300 | 1429 | | | | |
| 1.1 | 820 | 10300 | 1271 | | | | |
| 1.3 | 820 | 10300 | 1102 | | | | |
| 1.4 | 820 | 10300 | 970 | | | | |
| 1.6 | 820 | 10300 | 858 | | | | |
| 1.9 | 820 | 10300 | 755 | | | | |
| 2.2 | 820 | 10300 | 641 | | | | |
| 2.4 | 820 | 10300 | 572 | | | | |
| 2.8 | 820 | 10300 | 509 | | | | |
| 3.2 | 820 | 10300 | 437 | | | | |
| 3.6 | 820 | 10300 | 384 | | | | |
| 4.1 | 820 | 10300 | 338 | | | | |
| 4.6 | 820 | 10300 | 305 | | | | |
| 5.4 | 820 | 10300 | 257 | | | | |
| 6.1 | 820 | 10300 | 231 | | | | |
| 6.8 | 820 | 10300 | 205 | | | | |
| 8.0 | 820 | 10300 | 175 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 2.8 | 820 | 10300 | 500 | | | | |
| 3.1 | 820 | 10300 | 454 | | | | |
| 3.6 | 820 | 10300 | 392 | | | | |
| 4.2 | 820 | 10300 | 333 | | | | |
| 4.7 | 820 | 10300 | 297 | | | | |
| 5.4 | 820 | 10300 | 261 | | | | |
| 5.9 | 820 | 10300 | 238 | | | | |
| 7.0 | 820 | 10300 | 200 | | | | |
| 8.0 | 820 | 10300 | 176 | | | | |

POSSIBLE GEOMETRICAL COMBINATIONS

TF..78

$n_1=1400$ r/min

1500Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | AM / MY63 AM / MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AM / MY132M AM / MY160M | AD.. | P_1 (AD input power) |
|------------------|--------------------|---------------|----------|------------------------|--------------|--------------|----------------|----------------|----------------------------|----------------------------|------|------------------------------|
| 3Stage | | | | | | | | | | | | |
| 5.0 | 1500 | 15700 | 281.71 | | | | | | | | AD2 | 0.86 |
| 5.3 | 1500 | 15700 | 262.93 | | | | | | | | AD2 | 0.91 |
| 6.2 | 1500 | 15700 | 225.79 | | | | | | | | AD2 | 1.1 |
| 7.1 | 1500 | 15700 | 198.31 | | | | | | | | AD2 | 1.2 |
| 7.4 | 1500 | 15700 | 188.40 | | | | | | | | AD2 | 1.3 |
| 8.4 | 1500 | 15700 | 166.47 | | | | | | | | AD2 | 1.4 |
| 9.8 | 1500 | 15700 | 142.27 | | | | | | | | AD2 | 1.7 |
| 11 | 1500 | 15700 | 130.42 | | | | | | | | AD2 | 1.8 |
| 12 | 1500 | 15700 | 114.45 | | | | | | | | AD2 | 2.1 |
| 13 | 1500 | 15700 | 108.46 * | | | | | | | | AD2 | 2.2 |
| 15 | 1500 | 15700 | 94.93 | | | | | | | | AD2 | 2.5 |
| 16 | 1500 | 15700 | 85.52 | | | | | | | | AD2 | 2.7 |
| 19 | 1500 | 15700 | 75.02 | | | | | | | | AD2 | 3.1 |
| 19 | 1500 | 15700 | 72.50 | | | | | | | | AD2 | 3.2 |
| 21 | 1500 | 15700 | 66.46 | | | | | | | | AD2 | 3.5 |
| 24 | 1500 | 15700 | 58.32 | | | | | | | | AD2 | 4.0 |
| 25 | 1500 | 15700 | 55.27 | | | | | | | | AD2 | 4.2 |
| 29 | 1500 | 15700 | 48.37 | | | | | | | | AD2 | 4.8 |
| 32 | 1500 | 15700 | 43.58 | | | | | | | | AD3 | 5.4 |
| 37 | 1500 | 15700 | 38.23 | | | | | | | | AD3 | 6.1 |
| 41 | 1500 | 15700 | 33.74 | | | | | | | | AD3 | 6.9 |
| 47 | 1500 | 15700 | 29.91 | | | | | | | | AD3 | 7.8 |
| 55 | 1450 | 16100 | 25.54 | | | | | | | | AD3 | 8.9 |
| 2Stage | | | | | | | | | | | | |
| 38 | 1110 | 17900 | 36.58 | | | | | | | | AD3 | 4.7 |
| 44 | 1380 | 16500 | 31.51 | | | | | | | | AD3 | 5.4 |
| 49 | 1430 | 16200 | 28.75 | | | | | | | | AD3 | 6.4 |
| 55 | 1500 | 15700 | 25.50 * | | | | | | | | AD4 | 9.1 |
| 65 | 1500 | 15700 | 21.43 | | | | | | | | AD4 | 10.7 |
| 71 | 1500 | 15700 | 19.70 | | | | | | | | AD4 | 11.6 |
| 80 | 1500 | 15700 | 17.49 | | | | | | | | AD4 | 13.1 |
| 90 | 1500 | 15700 | 15.64 * | | | | | | | | AD4 | 14.6 |
| 100 | 1500 | 15700 | 14.06 | | | | | | | | AD4 | 15.4 |
| 115 | 1500 | 14900 | 12.20 | | | | | | | | AD4 | 16.0 |
| 128 | 1500 | 14200 | 10.93 | | | | | | | | AD4 | 16.5 |
| 151 | 1080 | 13800 | 9.30 | | | | | | | | AD4 | 13.3 |
| 169 | 1080 | 13100 | 8.26 | | | | | | | | AD4 | 14.1 |
| 189 | 1080 | 12500 | 7.39 | | | | | | | | AD4 | 14.9 |
| 211 | 1080 | 12000 | 6.64 | | | | | | | | AD4 | 15.4 |
| 243 | 1080 | 11300 | 5.76 | | | | | | | | AD4 | 16.0 |
| 271 | 1080 | 10700 | 5.16 | | | | | | | | AD4 | 16.4 |
| 327 | 1010 | 10200 | 4.28 | | | | | | | | AD4 | 16.8 |

TF..78/TRF38

$n_1 = 1400$ r/min

1500Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|---------------------|---------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.07 | 1500 | 15700 | 19180 | | | | |
| 0.08 | 1500 | 15700 | 17593 | | | | |
| 0.09 | 1500 | 15700 | 16128 | | | | |
| 0.09 | 1500 | 15700 | 14978 | | | | |
| 0.10 | 1500 | 15700 | 13731 | | | | |
| 0.12 | 1500 | 15700 | 12049 | | | | |
| 0.13 | 1500 | 15700 | 11035 | | | | |
| 0.14 | 1500 | 15700 | 9683 | | | | |
| 0.17 | 1500 | 15700 | 8464 | | | | |
| 0.19 | 1500 | 15700 | 7520 | | | | |
| 0.21 | 1500 | 15700 | 6580 | | | | |
| 0.24 | 1500 | 15700 | 5808 | | | | |
| 0.28 | 1500 | 15700 | 5026 | | | | |
| 0.32 | 1500 | 15700 | 4435 | | | | |
| 0.37 | 1500 | 15700 | 3832 | | | | |
| 0.41 | 1500 | 15700 | 3381 | | | | |
| 0.47 | 1500 | 15700 | 2978 | | | | |
| 0.54 | 1500 | 15700 | 2613 | | | | |
| 0.61 | 1500 | 15700 | 2284 | | | | |
| 0.69 | 1500 | 15700 | 2029 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.28 | 1110 | 17900 | 4931 | | | | |
| 0.31 | 1110 | 17900 | 4523 | | | | |
| 0.36 | 1110 | 17900 | 3851 | | | | |
| 0.42 | 1110 | 17900 | 3320 | | | | |
| 0.45 | 1110 | 17900 | 3095 | | | | |
| 0.52 | 1110 | 17900 | 2705 | | | | |
| 0.55 | 1110 | 17900 | 2536 | | | | |
| 0.63 | 1110 | 17900 | 2238 | | | | |
| 0.69 | 1110 | 17900 | 2039 | | | | |
| 0.80 | 1110 | 17900 | 1759 | | | | |
| 0.85 | 1110 | 17900 | 1639 | | | | |
| 0.98 | 1110 | 17900 | 1433 | | | | |
| 1.0 | 1110 | 17900 | 1343 | | | | |
| 1.2 | 1110 | 17900 | 1185 | | | | |
| 1.3 | 1110 | 17900 | 1051 | | | | |
| 1.6 | 1110 | 17900 | 893 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 0.81 | 1500 | 15700 | 1728 | | | | |
| 0.91 | 1500 | 15700 | 1544 | | | | |
| 1.0 | 1500 | 15700 | 1354 | | | | |
| 1.2 | 1500 | 15700 | 1200 | | | | |
| 1.3 | 1500 | 15700 | 1053 | | | | |
| 1.5 | 1500 | 15700 | 910 | | | | |
| 1.7 | 1500 | 15700 | 810 | | | | |
| 2.0 | 1500 | 15700 | 710 | | | | |
| 2.3 | 1500 | 15700 | 615 | | | | |
| 2.6 | 1500 | 15700 | 538 | | | | |
| 2.9 | 1500 | 15700 | 480 | | | | |
| 3.4 | 1500 | 15700 | 413 | | | | |
| 3.8 | 1500 | 15700 | 367 | | | | |
| 4.3 | 1500 | 15700 | 323 | | | | |

POSSIBLE GEOMETRICAL COMBINATIONS

TF..78/TRF38

$n_1=1400$ r/min

1500Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|-----------------|-----|--------------|------|------|-------|
| 3Stage / 2Stage | | | | | | | |
| 5.0 | 1500 | 15700 | 280 | | | | |
| 5.7 | 1500 | 15700 | 247 | | | | |
| 6.3 | 1500 | 15700 | 221 | | | | |
| 7.0 | 1500 | 15700 | 199 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 1.7 | 1110 | 17900 | 815 | | | | |
| 2.0 | 1110 | 17900 | 706 | | | | |
| 2.1 | 1110 | 17900 | 660 | | | | |
| 2.5 | 1110 | 17900 | 571 | | | | |
| 2.9 | 1110 | 17900 | 485 | | | | |
| 3.2 | 1110 | 17900 | 433 | | | | |
| 3.8 | 1110 | 17900 | 370 | | | | |
| 4.0 | 1110 | 17900 | 346 | | | | |
| 4.8 | 1110 | 17900 | 292 | | | | |

TF..88

$n_1=1400$ r/min

3000Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132N | AM / MY132AL AM / MY160M AM / MY160L | AM180 MY180 | AD.. | P_i (AD Input power) |
|------------------|-------------------|-----------------|---------|--------------|--------------|----------------|----------------|----------------------------|--|----------------|------|------------------------------|
| 3Stage | | | | | | | | | | | | |
| 5.2 | 3000 | 19800 | 270.68 | | | | | | | | AD2 | 1.7 |
| 5.5 | 3000 | 19800 | 255.37 | | | | | | | | AD2 | 1.8 |
| 6.1 | 3000 | 19800 | 228.93 | | | | | | | | AD2 | 2.0 |
| 7.1 | 3000 | 19800 | 197.20 | | | | | | | | AD2 | 2.4 |
| 7.8 | 3000 | 19800 | 179.97 | | | | | | | | AD2 | 2.6 |
| 8.8 | 3000 | 19800 | 159.61 | | | | | | | | AD2 | 2.9 |
| 10 | 3000 | 19800 | 134.16 | | | | | | | | AD2 | 3.5 |
| 11 | 3000 | 19800 | 123.29 | | | | | | | | AD2 | 3.8 |
| 13 | 3000 | 19800 | 109.49 | | | | | | | | AD2 | 4.3 |
| 14 | 3000 | 19800 | 97.89 | | | | | | | | AD2 | 4.8 |
| 16 | 3000 | 19800 | 88.01 | | | | | | | | AD2 | 5.3 |
| 18 | 3000 | 19800 | 76.39 | | | | | | | | AD2 | 6.1 |
| 20 | 3000 | 19600 | 68.40 | | | | | | | | AD3 | 6.8 |
| 25 | 3000 | 17700 | 56.75 | | | | | | | | AD3 | 8.2 |
| 28 | 2940 | 16800 | 50.36 | | | | | | | | AD3 | 9.1 |
| 31 | 2820 | 16200 | 45.28 | | | | | | | | AD3 | 9.7 |
| 36 | 2720 | 15400 | 39.30 | | | | | | | | AD3 | 10.7 |
| 40 | 2610 | 14900 | 35.19 | | | | | | | | AD4 | 11.6 |
| 48 | 2510 | 13800 | 29.20 | | | | | | | | AD4 | 13.4 |
| 2Stage | | | | | | | | | | | | |
| 41 | 2610 | 14600 | 33.92 | | | | | | | | AD4 | 11.5 |
| 49 | 2450 | 13900 | 28.78 | | | | | | | | AD4 | 12.7 |
| 53 | 3000 | 11100 | 26.50 | | | | | | | | AD5 | 17.5 |
| 59 | 3000 | 10300 | 23.68 | | | | | | | | AD5 | 19 |
| 66 | 3000 | 9530 | 21.32 * | | | | | | | | AD5 | 21 |
| 73 | 3000 | 8840 | 19.31 | | | | | | | | AD5 | 24 |
| 82 | 3000 | 8040 | 17.12 | | | | | | | | AD5 | 27 |
| 90 | 3000 | 7390 | 15.48 | | | | | | | | AD5 | 30 |
| 107 | 3000 | 6370 | 13.12 * | | | | | | | | AD5 | 35 |

TF..88

$n_1=1400$ r/min

3000Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | F_{r_2} [N] | i | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AM / MY132M, AM / MY160M AM / MY160L | AM180 MY180 | AD.. | P_1 (AD input power) |
|------------------|---------------------|------------------|-------|--------------|--------------|----------------|----------------|----------------------------|--|----------------|------|------------------------------|
| 2Stage | | | | | | | | | | | | |
| 122 | 3000 | 5580 | 11.46 | | | | | | | | AD5 | 40 |
| 146 | 2880 | 5050 | 9.58 | | | | | | | | AD5 | 46 |
| 169 | 1530 | 8890 | 8.29 | | | | | | | | AD5 | 28 |
| 190 | 1530 | 8280 | 7.35 | | | | | | | | AD5 | 32 |
| 211 | 1530 | 7790 | 6.65 | | | | | | | | AD5 | 35 |
| 249 | 1530 | 7020 | 5.63 | | | | | | | | AD5 | 41 |
| 285 | 1530 | 6430 | 4.92 | | | | | | | | AD5 | 47 |
| 340 | 1460 | 5980 | 4.12 | | | | | | | | AD5 | 47 |

TF..88/TRF58

$n_1=1400$ r/min

3000Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | F_{r_2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|---------------------|------------------|-------|--------------|------|------|-------|-------|------------------|
| 3Stage / 3Stage | | | | | | | | | |
| 0.06 | 3000 | 19800 | 23042 | | | | | | |
| 0.07 | 3000 | 19800 | 20462 | | | | | | |
| 0.08 | 3000 | 19800 | 18238 | | | | | | |
| 0.09 | 3000 | 19800 | 15877 | | | | | | |
| 0.10 | 3000 | 19800 | 14099 | | | | | | |
| 0.11 | 3000 | 19800 | 12205 | | | | | | |
| 0.13 | 3000 | 19800 | 10433 | | | | | | |
| 0.15 | 3000 | 19800 | 9381 | | | | | | |
| 0.17 | 3000 | 19800 | 8142 | | | | | | |
| 0.20 | 3000 | 19800 | 7100 | | | | | | |
| 0.22 | 3000 | 19800 | 6273 | | | | | | |
| 0.25 | 3000 | 19800 | 5510 | | | | | | |
| 0.28 | 3000 | 19800 | 4954 | | | | | | |
| 0.33 | 3000 | 19800 | 4245 | | | | | | |
| 0.38 | 3000 | 19800 | 3721 | | | | | | |
| 2Stage / 3Stage | | | | | | | | | |
| 0.28 | 3000 | 19800 | 4952 | | | | | | |
| 0.31 | 3000 | 19800 | 4562 | | | | | | |
| 0.36 | 3000 | 19800 | 3919 | | | | | | |
| 0.40 | 3000 | 19800 | 3503 | | | | | | |
| 0.44 | 3000 | 19800 | 3196 | | | | | | |
| 0.49 | 3000 | 19800 | 2857 | | | | | | |
| 0.55 | 3000 | 19800 | 2524 | | | | | | |
| 0.66 | 3000 | 19800 | 2134 | | | | | | |
| 0.73 | 3000 | 19800 | 1913 | | | | | | |
| 0.82 | 3000 | 19800 | 1717 | | | | | | |
| 0.95 | 3000 | 19800 | 1476 | | | | | | |
| 1.1 | 3000 | 19800 | 1278 | | | | | | |
| 1.2 | 3000 | 19800 | 1142 | | | | | | |
| 1.4 | 3000 | 19800 | 988 | | | | | | |
| 1.6 | 3000 | 19800 | 883 | | | | | | |
| 1.9 | 3000 | 19800 | 748 | | | | | | |
| 3Stage / 2Stage | | | | | | | | | |
| 0.43 | 3000 | 19800 | 3244 | | | | | | |
| 0.49 | 3000 | 19800 | 2881 | | | | | | |

POSSIBLE GEOMETRICAL COMBINATIONS

TF..88/TRF58

$n_1=1400$ r/min

3000Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|-------------------|-----------------|------|--------------|------|------|-------|-------|------------------|
| 3Stage / 2Stage | | | | | | | | | |
| 0.54 | 3000 | 19800 | 2576 | | | | | | |
| 0.64 | 3000 | 19800 | 2199 | | | | | | |
| 0.73 | 3000 | 19800 | 1930 | | | | | | |
| 0.82 | 3000 | 19800 | 1709 | | | | | | |
| 0.94 | 3000 | 19800 | 1493 | | | | | | |
| 1.1 | 3000 | 19800 | 1300 | | | | | | |
| 1.2 | 3000 | 19800 | 1148 | | | | | | |
| 1.4 | 3000 | 19800 | 1010 | | | | | | |
| 1.6 | 3000 | 19800 | 887 | | | | | | |
| 1.8 | 3000 | 19800 | 780 | | | | | | |
| 2.1 | 3000 | 19800 | 674 | | | | | | |
| 2.3 | 3000 | 19800 | 609 | | | | | | |
| 2.7 | 3000 | 19800 | 515 | | | | | | |
| 3.1 | 3000 | 19800 | 452 | | | | | | |
| 4.1 | 3000 | 19800 | 345 | | | | | | |
| 4.7 | 3000 | 19800 | 300 | | | | | | |
| 5.6 | 3000 | 19800 | 249 | | | | | | |
| 2Stage / 2Stage | | | | | | | | | |
| 2.1 | 3000 | 19800 | 662 | | | | | | |
| 2.4 | 3000 | 19800 | 592 | | | | | | |
| 2.7 | 3000 | 19800 | 519 | | | | | | |
| 3.0 | 3000 | 19800 | 468 | | | | | | |
| 3.5 | 3000 | 19800 | 398 | | | | | | |
| 4.0 | 3000 | 19800 | 350 | | | | | | |
| 4.4 | 3000 | 19800 | 315 | | | | | | |
| 5.0 | 3000 | 19800 | 281 | | | | | | |
| 5.8 | 3000 | 19800 | 240 | | | | | | |
| 6.6 | 3000 | 19800 | 211 | | | | | | |
| 7.3 | 3000 | 19800 | 193 | | | | | | |

TF..98

$n_1=1400$ r/min

4300Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AM / MY132L AM / MY160M AM / MY160L | AM180 MY180 | AM200 MY200 | AD.. | P_1 (AD Input power) |
|------------------|-------------------|-----------------|--------|--------------|----------------|----------------|----------------------------|---|----------------|----------------|------|---------------------------|
| 3Stage | | | | | | | | | | | | |
| 5.1 | 4300 | 29900 | 276.77 | | | | | | | | AD3 | 2.5 |
| 5.5 | 4300 | 29900 | 253.41 | | | | | | | | AD3 | 2.7 |
| 6.3 | 4300 | 29900 | 223.88 | | | | | | | | AD3 | 3.0 |
| 7.4 | 4300 | 29900 | 189.92 | | | | | | | | AD3 | 3.6 |
| 8.0 | 4300 | 29900 | 174.87 | | | | | | | | AD3 | 3.9 |
| 9.0 | 4300 | 29900 | 156.30 | | | | | | | | AD3 | 4.3 |
| 9.9 | 4300 | 29900 | 140.71 | | | | | | | | AD3 | 4.8 |
| 11 | 4300 | 29900 | 127.42 | | | | | | | | AD3 | 5.3 |
| 12 | 4300 | 29900 | 112.99 | | | | | | | | AD3 | 5.9 |
| 14 | 4300 | 29900 | 102.16 | | | | | | | | AD3 | 6.6 |
| 14 | 4300 | 29900 | 97.58 | | | | | | | | AD3 | 6.9 |
| 16 | 4300 | 29900 | 89.85 | | | | | | | | AD3 | 7.5 |
| 16 | 4300 | 29900 | 86.59 | | | | | | | | AD3 | 7.7 |

TF..98

$n_1=1400$ r/min

4300Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | Fr_2 [N] | i | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AM / MY132M AM / MY160M AM / MY160L | AM180 MY180 | AM200 MY200 | AD.. | P_1 (AD Input power) |
|------------------|---------------------|---------------|---------|--------------|----------------|----------------|----------------------------|---|----------------|----------------|------|------------------------------|
| 3Stage | | | | | | | | | | | | |
| 17 | 4300 | 29900 | 80.31 | | | | | | | | AD3 | 8.3 |
| 19 | 4300 | 29900 | 75.63 | | | | | | | | AD3 | 8.9 |
| 19 | 4300 | 29900 | 72.29 | | | | | | | | AD3 | 9.3 |
| 21 | 4300 | 29000 | 65.47 | | | | | | | | AD4 | 10.2 |
| 24 | 4300 | 27200 | 58.06 | | | | | | | | AD4 | 11.5 |
| 27 | 4300 | 25800 | 52.49 | | | | | | | | AD4 | 12.8 |
| 31 | 4300 | 23600 | 44.49 | | | | | | | | AD4 | 15.1 |
| 36 | 4300 | 21900 | 38.86 | | | | | | | | AD4 | 17.3 |
| 43 | 4300 | 19800 | 32.50 | | | | | | | | AD4 | 21 |
| 2Stage | | | | | | | | | | | | |
| 32 | 3070 | 27600 | 43.28 | | | | | | | | AD4 | 10.8 |
| 38 | 3070 | 25500 | 36.64 | | | | | | | | AD4 | 12.8 |
| 41 | 4300 | 20300 | 33.91 | | | | | | | | AD5 | 19 |
| 46 | 4300 | 19000 | 30.39 | | | | | | | | AD5 | 22 |
| 51 | 4300 | 17900 | 27.44 * | | | | | | | | AD5 | 24 |
| 56 | 4300 | 16800 | 24.92 | | | | | | | | AD5 | 26 |
| 63 | 4300 | 15600 | 22.11 | | | | | | | | AD5 | 30 |
| 70 | 4300 | 14600 | 20.07 | | | | | | | | AD5 | 33 |
| 81 | 4300 | 13200 | 17.25 * | | | | | | | | AD5 | 38 |
| 93 | 4300 | 11900 | 15.06 | | | | | | | | AD5 | 44 |
| 110 | 4300 | 10500 | 12.77 | | | | | | | | AD6 | 51 |
| 125 | 4100 | 10000 | 11.16 | | | | | | | | AD6 | 56 |
| 155 | 2360 | 13400 | 9.06 | | | | | | | | AD6 | 40 |
| 170 | 2360 | 12600 | 8.22 | | | | | | | | AD6 | 44 |
| 198 | 2360 | 11500 | 7.07 | | | | | | | | AD6 | 51 |
| 227 | 2250 | 11100 | 6.17 | | | | | | | | AD6 | 56 |
| 268 | 2150 | 10400 | 5.23 | | | | | | | | AD6 | 56 |
| 306 | 2050 | 9950 | 4.57 | | | | | | | | AD6 | 56 |
| 362 | 1800 | 9970 | 3.87 | | | | | | | | AD6 | 56 |

TF..98/TRF58

$n_1=1400$ r/min

4300Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|---------------------|---------------|-------|--------------|------|------|-------|-------|------------------|
| 3Stage / 3Stage | | | | | | | | | |
| 0.05 | 4300 | 29900 | 29211 | | | | | | |
| 0.05 | 4300 | 29900 | 26911 | | | | | | |
| 0.06 | 4300 | 29900 | 23814 | | | | | | |
| 0.07 | 4300 | 29900 | 20813 | | | | | | |
| 0.08 | 4300 | 29900 | 18119 | | | | | | |
| 0.09 | 4300 | 29900 | 15472 | | | | | | |
| 0.10 | 4300 | 29900 | 14022 | | | | | | |
| 0.11 | 4300 | 29900 | 12324 | | | | | | |
| 0.13 | 4300 | 29900 | 10838 | | | | | | |
| 0.15 | 4300 | 29900 | 9576 | | | | | | |
| 0.17 | 4300 | 29900 | 8318 | | | | | | |
| 0.19 | 4300 | 29900 | 7328 | | | | | | |
| 0.22 | 4300 | 29900 | 6469 | | | | | | |
| 0.25 | 4300 | 29900 | 5615 | | | | | | |
| 0.28 | 4300 | 29900 | 4961 | | | | | | |
| 0.32 | 4300 | 29900 | 4333 | | | | | | |

POSSIBLE GEOMETRICAL COMBINATIONS

TF..98/TRF58

$n_1=1400$ r/min

4300Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|-------------------|-----------------|------|--------------|------|------|-------|-------|------------------|
| 2Stage / 3Stage | | | | | | | | | |
| 0.22 | 4300 | 29900 | 6338 | | | | | | |
| 0.25 | 4300 | 29900 | 5680 | | | | | | |
| 0.28 | 4300 | 29900 | 5016 | | | | | | |
| 0.32 | 4300 | 29900 | 4367 | | | | | | |
| 0.36 | 4300 | 29900 | 3914 | | | | | | |
| 0.42 | 4300 | 29900 | 3357 | | | | | | |
| 0.47 | 4300 | 29900 | 3009 | | | | | | |
| 0.57 | 4300 | 29900 | 2448 | | | | | | |
| 0.64 | 4300 | 29900 | 2199 | | | | | | |
| 0.71 | 4300 | 29900 | 1971 | | | | | | |
| 0.80 | 4300 | 29900 | 1741 | | | | | | |
| 0.95 | 4300 | 29900 | 1468 | | | | | | |
| 1.1 | 4300 | 29900 | 1316 | | | | | | |
| 1.2 | 4300 | 29900 | 1189 | | | | | | |
| 1.4 | 4300 | 29900 | 1023 | | | | | | |
| 3Stage / 2Stage | | | | | | | | | |
| 0.36 | 4300 | 29900 | 3906 | | | | | | |
| 0.42 | 4300 | 29900 | 3352 | | | | | | |
| 0.48 | 4300 | 29900 | 2907 | | | | | | |
| 0.55 | 4300 | 29900 | 2553 | | | | | | |
| 0.62 | 4300 | 29900 | 2245 | | | | | | |
| 0.71 | 4300 | 29900 | 1970 | | | | | | |
| 0.81 | 4300 | 29900 | 1722 | | | | | | |
| 0.92 | 4300 | 29900 | 1527 | | | | | | |
| 1.1 | 4300 | 29900 | 1327 | | | | | | |
| 1.2 | 4300 | 29900 | 1171 | | | | | | |
| 1.4 | 4300 | 29900 | 1022 | | | | | | |
| 1.6 | 4300 | 29900 | 898 | | | | | | |
| 1.8 | 4300 | 29900 | 784 | | | | | | |
| 2.0 | 4300 | 29900 | 690 | | | | | | |
| 2.3 | 4300 | 29900 | 605 | | | | | | |
| 2.6 | 4300 | 29900 | 529 | | | | | | |
| 3.0 | 4300 | 29900 | 467 | | | | | | |
| 3.4 | 4300 | 29900 | 406 | | | | | | |
| 3.9 | 4300 | 29900 | 363 | | | | | | |
| 4.9 | 4300 | 29900 | 285 | | | | | | |
| 5.7 | 4300 | 29900 | 245 | | | | | | |
| 6.7 | 4300 | 29900 | 208 | | | | | | |
| 7.2 | 4300 | 29900 | 195 | | | | | | |
| 2Stage / 2Stage | | | | | | | | | |
| 1.6 | 4300 | 29900 | 892 | | | | | | |
| 1.8 | 4300 | 29900 | 760 | | | | | | |
| 2.1 | 4300 | 29900 | 667 | | | | | | |
| 2.5 | 4300 | 29900 | 569 | | | | | | |
| 2.7 | 4300 | 29900 | 510 | | | | | | |
| 3.0 | 4300 | 29900 | 473 | | | | | | |
| 3.5 | 4300 | 29900 | 403 | | | | | | |
| 3.9 | 4300 | 29900 | 361 | | | | | | |
| 4.4 | 4300 | 29900 | 317 | | | | | | |
| 5.1 | 4300 | 29900 | 275 | | | | | | |
| 5.8 | 4300 | 29900 | 242 | | | | | | |

TF..108

$n_1=1400$ r/min

7840Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M | AM / MY132ML AM / MY160M AM / MY160L | AM180 MY180 | AM / MY200 AM / MY226S AM / MY226M | AD.. | P_1 (AD input power) |
|------------------|-------------------|---------------|----------|----------------|----------------|----------------------------|--|----------------|--|------|------------------------------|
| 3Stage | | | | | | | | | | | |
| 5.5 | 7680 | 49800 | 254.40 * | | | | | | | AD3 | 4.7 |
| 6.5 | 7680 | 49800 | 215.37 | | | | | | | AD3 | 5.6 |
| 7.0 | 7680 | 49800 | 199.31 | | | | | | | AD3 | 6.0 |
| 7.8 | 7680 | 49800 | 178.64 | | | | | | | AD3 | 6.7 |
| 8.7 | 7680 | 49800 | 161.28 * | | | | | | | AD3 | 7.4 |
| 9.6 | 7680 | 49800 | 146.49 | | | | | | | AD3 | 8.2 |
| 11 | 7680 | 49800 | 129.97 | | | | | | | AD3 | 9.2 |
| 12 | 7680 | 49800 | 117.94 | | | | | | | AD3 | 10.2 |
| 14 | 7680 | 49800 | 101.38 * | | | | | | | AD4 | 11.8 |
| 15 | 7680 | 49800 | 92.47 * | | | | | | | AD4 | 13.0 |
| 16 | 7680 | 49800 | 88.49 | | | | | | | AD4 | 13.5 |
| 17 | 7680 | 49800 | 83.99 | | | | | | | AD4 | 14.3 |
| 19 | 7680 | 49800 | 74.52 | | | | | | | AD4 | 16.1 |
| 21 | 7680 | 49800 | 67.62 | | | | | | | AD4 | 17.7 |
| 24 | 7680 | 47800 | 58.12 * | | | | | | | AD4 | 20 |
| 28 | 7680 | 45100 | 50.73 | | | | | | | AD4 | 23 |
| 33 | 7680 | 42000 | 43.03 | | | | | | | AD5 | 28 |
| 37 | 7680 | 39500 | 37.61 | | | | | | | AD5 | 32 |
| 44 | 7680 | 36500 | 31.80 | | | | | | | AD5 | 38 |
| 2Stage | | | | | | | | | | | |
| 41 | 7400 | 38300 | 33.79 * | | | | | | | AD6 | 33 |
| 51 | 7840 | 33300 | 27.57 | | | | | | | AD6 | 43 |
| 56 | 7840 | 31500 | 25.14 | | | | | | | AD6 | 48 |
| 64 | 7840 | 28800 | 21.76 * | | | | | | | AD6 | 55 |
| 73 | 7840 | 26500 | 19.20 * | | | | | | | AD6 | 56 |
| 84 | 7840 | 23900 | 16.58 | | | | | | | AD6 | 56 |
| 95 | 7680 | 22400 | 14.67 | | | | | | | AD6 | 56 |
| 114 | 7000 | 22600 | 12.33 | | | | | | | AD6 | 56 |
| 141 | 6500 | 21500 | 9.96 | | | | | | | AD6 | 61 |
| 144 | 4910 | 23500 | 9.69 | | | | | | | AD6 | 56 |
| 167 | 4800 | 22000 | 8.37 | | | | | | | AD6 | 56 |
| 189 | 4600 | 21300 | 7.40 | | | | | | | AD6 | 56 |
| 225 | 4600 | 19000 | 6.22 | | | | | | | AD6 | 56 |
| 278 | 4600 | 16400 | 5.03 | | | | | | | AD6 | 56 |

TF..108/TRF78

$n_1=1400$ r/min

7840Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|----------------------|-------------------|---------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage 3Stage | | | | | | | | | | |
| 0.06 | 7680 | 49800 | 25375 | | | | | | | |
| 0.06 | 7680 | 49800 | 21652 | | | | | | | |
| 0.07 | 7680 | 49800 | 18933 | | | | | | | |
| 0.08 | 7680 | 49800 | 16888 | | | | | | | |
| 0.09 | 7680 | 49800 | 14767 | | | | | | | |
| 0.12 | 7680 | 49800 | 11348 | | | | | | | |
| 0.14 | 7680 | 49800 | 10039 | | | | | | | |
| 0.16 | 7680 | 49800 | 8548 | | | | | | | |
| 0.18 | 7680 | 49800 | 7674 | | | | | | | |
| 0.21 | 7680 | 49800 | 6767 | | | | | | | |

TF..108/TRF78 $n_1=1400$ r/min

7840Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|-------------------|-----------------|------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage / 3Stage | | | | | | | | | | |
| 0.24 | 7680 | 49800 | 5954 | | | | | | | |
| 0.27 | 7680 | 49800 | 5223 | | | | | | | |
| 0.31 | 7680 | 49800 | 4567 | | | | | | | |
| 0.35 | 7680 | 49800 | 3948 | | | | | | | |
| 0.40 | 7680 | 49800 | 3521 | | | | | | | |
| 2Stage / 3Stage | | | | | | | | | | |
| 0.26 | 7840 | 49400 | 5383 | | | | | | | |
| 0.30 | 7840 | 49400 | 4593 | | | | | | | |
| 0.35 | 7840 | 49400 | 4016 | | | | | | | |
| 0.37 | 7840 | 49400 | 3815 | | | | | | | |
| 0.42 | 7840 | 49400 | 3347 | | | | | | | |
| 0.49 | 7840 | 49400 | 2839 | | | | | | | |
| 0.55 | 7840 | 49400 | 2563 | | | | | | | |
| 0.62 | 7840 | 49400 | 2255 | | | | | | | |
| 0.66 | 7840 | 49400 | 2129 | | | | | | | |
| 0.77 | 7840 | 49400 | 1813 | | | | | | | |
| 0.88 | 7840 | 49400 | 1590 | | | | | | | |
| 0.97 | 7840 | 49400 | 1436 | | | | | | | |
| 1.1 | 7840 | 49400 | 1263 | | | | | | | |
| 1.2 | 7840 | 49400 | 1193 | | | | | | | |
| 1.4 | 7840 | 49400 | 1015 | | | | | | | |
| 1.5 | 7840 | 49400 | 923 | | | | | | | |
| 1.8 | 7840 | 49400 | 800 | | | | | | | |
| 2.0 | 7840 | 49400 | 696 | | | | | | | |
| 3Stage / 2Stage | | | | | | | | | | |
| 0.46 | 7680 | 49800 | 3037 | | | | | | | |
| 0.51 | 7680 | 49800 | 2756 | | | | | | | |
| 0.59 | 7680 | 49800 | 2369 | | | | | | | |
| 0.68 | 7680 | 49800 | 2068 | | | | | | | |
| 0.77 | 7680 | 49800 | 1826 | | | | | | | |
| 0.88 | 7680 | 49800 | 1597 | | | | | | | |
| 1.0 | 7680 | 49800 | 1401 | | | | | | | |
| 1.1 | 7680 | 49800 | 1243 | | | | | | | |
| 1.3 | 7680 | 49800 | 1087 | | | | | | | |
| 1.5 | 7680 | 49800 | 950 | | | | | | | |
| 1.7 | 7680 | 49800 | 834 | | | | | | | |
| 1.9 | 7680 | 49800 | 736 | | | | | | | |
| 2.2 | 7680 | 49800 | 640 | | | | | | | |
| 2.5 | 7680 | 49800 | 560 | | | | | | | |
| 2.9 | 7680 | 49800 | 489 | | | | | | | |
| 3.2 | 7680 | 49800 | 436 | | | | | | | |
| 3.8 | 7680 | 49800 | 370 | | | | | | | |
| 4.2 | 7680 | 49800 | 333 | | | | | | | |
| 4.8 | 7680 | 49800 | 291 | | | | | | | |
| 5.5 | 7680 | 49800 | 255 | | | | | | | |
| 6.2 | 7680 | 49800 | 225 | | | | | | | |
| 7.4 | 7680 | 49800 | 190 | | | | | | | |
| 2Stage / 2Stage | | | | | | | | | | |
| 2.2 | 7840 | 49400 | 644 | | | | | | | |
| 2.4 | 7840 | 49400 | 591 | | | | | | | |
| 2.7 | 7840 | 49400 | 518 | | | | | | | |

TF..108/TRF78 $n_1=1400$ r/min

7840Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|--------------------|---------------|-----|--------------|------|------|-------|-------|------------------|-------------------|
| 2Stage / 2Stage | | | | | | | | | | |
| 2.9 | 7840 | 49400 | 491 | | | | | | | |
| 3.3 | 7840 | 49400 | 430 | | | | | | | |
| 3.6 | 7840 | 49400 | 387 | | | | | | | |
| 4.1 | 7840 | 49400 | 340 | | | | | | | |
| 4.7 | 7840 | 49400 | 300 | | | | | | | |
| 5.3 | 7840 | 49400 | 266 | | | | | | | |

TF..128 $n_1=1400$ r/min

12000Nm

| n_2 [r/min] | M_{2max} [Nm] | Fr_2 [N] | i | AM132M MY132M | AM / MY132ML AM / MY160M AM / MY160L | AM180 MY180 | AM / MY200 AM / MY226S AM / MY226M | AM / MY260M AM / MY280 | AM / MY316M AM / MY316S | AD.. | P_1 (AD Input power) |
|------------------|--------------------|---------------|----------|------------------|--|----------------|--|---------------------------|----------------------------|------|------------------------------|
| 3Stage | | | | | | | | | | | |
| 8.2 | 12000 | 90000 | 170.83 | | | | | | | AD4 | 11 |
| 9.1 | 12000 | 90000 | 153.67 * | | | | | | | AD4 | 12.2 |
| 11 | 12000 | 90000 | 125.37 | | | | | | | AD4 | 14.9 |
| 12 | 12000 | 88000 | 114.34 | | | | | | | AD4 | 16.4 |
| 14 | 12000 | 83000 | 98.95 | | | | | | | AD4 | 19 |
| 16 | 12000 | 79000 | 87.31 * | | | | | | | AD4 | 21 |
| 19 | 12000 | 74300 | 75.41 * | | | | | | | AD4 | 25 |
| 20 | 12000 | 72100 | 70.07 | | | | | | | AD5 | 27 |
| 22 | 12000 | 69400 | 63.91 | | | | | | | AD5 | 29 |
| 25 | 12000 | 65200 | 55.31 | | | | | | | AD5 | 33 |
| 29 | 12000 | 61300 | 48.80 | | | | | | | AD5 | 38 |
| 33 | 12000 | 56800 | 42.15 | | | | | | | AD5 | 44 |
| 38 | 12000 | 53200 | 37.28 | | | | | | | AD6 | 50 |
| 45 | 12000 | 48300 | 31.33 | | | | | | | AD7 | 59 |
| 55 | 12000 | 42400 | 25.30 | | | | | | | AD7 | 73 |
| 2Stage | | | | | | | | | | | |
| 52 | 8500 | 55300 | 26.86 | | | | | | | AD6 | 48 |
| 57 | 8500 | 53300 | 24.57 | | | | | | | AD6 | 53 |
| 65 | 12000 | 38000 | 21.38 | | | | | | | AD8 | 86 |
| 74 | 11000 | 38800 | 18.87 | | | | | | | AD8 | 87 |
| 86 | 11000 | 35400 | 16.36 | | | | | | | AD8 | 103 |
| 96 | 11000 | 32600 | 14.55 | | | | | | | AD8 | 115 |
| 112 | 10000 | 33300 | 12.54 | | | | | | | AD8 | 122 |
| 137 | 9500 | 30900 | 10.19 | | | | | | | AD8 | 135 |
| 158 | 7000 | 36400 | 8.86 | | | | | | | AD8 | 121 |
| 178 | 6000 | 37000 | 7.88 | | | | | | | AD8 | 116 |
| 206 | 7000 | 32200 | 6.80 | | | | | | | AD8 | 136 |
| 254 | 6000 | 31700 | 5.52 | | | | | | | AD8 | 136 |
| 299 | 6000 | 29500 | 4.68 | | | | | | | AD8 | 135 |

TF..128/TRF78 $n_1=1400$ r/min

12000Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132SML MY160M |
|------------------|-------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|--------------------|
| 3Stage / 3Stage | | | | | | | | | | |
| 0.06 | 12000 | 90000 | 24478 | | | | | | | |
| 0.06 | 12000 | 90000 | 22323 | | | | | | | |
| 0.07 | 12000 | 90000 | 19048 | | | | | | | |
| 0.08 | 12000 | 90000 | 16656 | | | | | | | |
| 0.10 | 12000 | 90000 | 14722 | | | | | | | |
| 0.11 | 12000 | 90000 | 12912 | | | | | | | |
| 0.12 | 12000 | 90000 | 11656 | | | | | | | |
| 0.14 | 12000 | 90000 | 10191 | | | | | | | |
| 0.16 | 12000 | 90000 | 8831 | | | | | | | |
| 0.18 | 12000 | 90000 | 7643 | | | | | | | |
| 0.21 | 12000 | 90000 | 6715 | | | | | | | |
| 0.24 | 12000 | 90000 | 5925 | | | | | | | |
| 0.27 | 12000 | 90000 | 5153 | | | | | | | |
| 0.31 | 12000 | 90000 | 4533 | | | | | | | |
| 0.36 | 12000 | 90000 | 3926 | | | | | | | |
| 0.41 | 12000 | 90000 | 3454 | | | | | | | |
| 0.46 | 12000 | 90000 | 3031 | | | | | | | |
| 3Stage / 2Stage | | | | | | | | | | |
| 0.52 | 12000 | 90000 | 2672 | | | | | | | |
| 0.59 | 12000 | 90000 | 2357 | | | | | | | |
| 0.69 | 12000 | 90000 | 2038 | | | | | | | |
| 0.78 | 12000 | 90000 | 1784 | | | | | | | |
| 0.87 | 12000 | 90000 | 1606 | | | | | | | |
| 1.0 | 12000 | 90000 | 1390 | | | | | | | |
| 1.1 | 12000 | 90000 | 1220 | | | | | | | |
| 1.3 | 12000 | 90000 | 1077 | | | | | | | |
| 1.5 | 12000 | 90000 | 930 | | | | | | | |
| 1.7 | 12000 | 90000 | 820 | | | | | | | |
| 1.9 | 12000 | 90000 | 727 | | | | | | | |
| 2.2 | 12000 | 90000 | 648 | | | | | | | |
| 2.6 | 12000 | 90000 | 549 | | | | | | | |
| 2.8 | 12000 | 90000 | 495 | | | | | | | |
| 3.3 | 12000 | 90000 | 428 | | | | | | | |
| 3.7 | 12000 | 90000 | 376 | | | | | | | |

TF..128/TRF88 $n_1=1400$ r/min

12000Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M MY160L | MY180 |
|------------------|-------------------|-----------------|-----|------|-------|-------|------------------|-----------------------------|-------|
| 3Stage / 2Stage | | | | | | | | | |
| 2.9 | 12000 | 90000 | 483 | | | | | | |
| 3.3 | 12000 | 90000 | 418 | | | | | | |
| 3.7 | 12000 | 90000 | 374 | | | | | | |
| 4.5 | 12000 | 90000 | 312 | | | | | | |
| 4.8 | 12000 | 90000 | 293 | | | | | | |
| 5.4 | 12000 | 90000 | 259 | | | | | | |
| 6.3 | 12000 | 90000 | 223 | | | | | | |
| 7.1 | 12000 | 90000 | 198 | | | | | | |
| 8.4 | 12000 | 90000 | 166 | | | | | | |

TF..158

$n_1=1400$ r/min

18000Nm

| n_2 [r/min] | $M_{2,max}$ [Nm] | F_{r_2} [N] | i | AM / MY132ML AM / MY160M AM / MY160L | AM180 MY180 | AM / MY200 AM / MY225S AM / MY225M | AM / MY260M AM / MY290 | AM / MY316M AM / MY316S | AM / MY316M_A AM / MY316M_B | AD.. | P_1 (AD Input power) |
|------------------|---------------------|------------------|----------|--|----------------|--|---------------------------|----------------------------|--------------------------------|------|---------------------------|
| 3Stage | | | | | | | | | | | |
| 5.2 | 18000 | 100300 | 267.43 | | | | | | | AD5 | 10.6 |
| 6.4 | 18000 | 100300 | 217.62 * | | | | | | | AD5 | 13.0 |
| 7.9 | 18000 | 100300 | 178.20 * | | | | | | | AD5 | 15.8 |
| 8.6 | 18000 | 100300 | 162.96 | | | | | | | AD5 | 17.2 |
| 9.9 | 18000 | 100300 | 141.80 * | | | | | | | AD5 | 20 |
| 11 | 18000 | 100300 | 125.14 | | | | | | | AD5 | 22 |
| 13 | 18000 | 100300 | 108.49 | | | | | | | AD5 | 26 |
| 15 | 18000 | 100300 | 96.53 * | | | | | | | AD5 | 29 |
| 16 | 18000 | 95800 | 85.80 * | | | | | | | AD5 | 32 |
| 18 | 18000 | 92300 | 78.46 | | | | | | | AD5 | 35 |
| 21 | 18000 | 87000 | 68.28 * | | | | | | | AD5 | 41 |
| 23 | 18000 | 82500 | 60.25 | | | | | | | AD5 | 46 |
| 27 | 18000 | 77500 | 52.24 | | | | | | | AD6 | 53 |
| 30 | 18000 | 73600 | 46.48 * | | | | | | | AD7 | 60 |
| 35 | 18000 | 68900 | 40.06 | | | | | | | AD7 | 69 |
| 43 | 18000 | 62500 | 32.55 | | | | | | | AD7 | 85 |
| 51 | 18000 | 57800 | 27.60 | | | | | | | AD8 | 101 |
| 2Stage | | | | | | | | | | | |
| 26 | 8000 | 98400 | 53.55 | | | | | | | AD5 | 23 |
| 32 | 10000 | 87800 | 43.94 * | | | | | | | AD6 | 35 |
| 39 | 11000 | 79300 | 35.75 * | | | | | | | AD6 | 47 |
| 49 | 17000 | 60800 | 28.60 * | | | | | | | AD8 | 91 |
| 55 | 15000 | 61500 | 25.43 | | | | | | | AD8 | 90 |
| 63 | 18000 | 51800 | 22.16 | | | | | | | AD8 | 124 |
| 71 | 17000 | 50900 | 19.77 | | | | | | | AD8 | 131 |
| 83 | 18000 | 44900 | 16.85 | | | | | | | AD8 | 161 |
| 100 | 17000 | 42500 | 13.96 | | | | | | | AD8 | 184 |
| 117 | 16000 | 40900 | 11.92 | | | | | | | AD8 | 203 |



POSSIBLE GEOMETRICAL COMBINATIONS


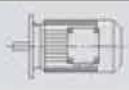
TF..158/TRF98 $n_1=1400$ r/min



18000Nm


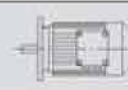
| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M MY160L | MY180 | MY200 |
|------------------------|-------------------|---------------|-------|------|------|-------|-------|------------------|-----------------------------|-------|-------|
| 3Stage / 3Stage | | | | | | | | | | | |
| 0.04 | 18000 | 100300 | 31434 | | | | | | | | |
| 0.05 | 18000 | 100300 | 26173 | | | | | | | | |
| 0.06 | 18000 | 100300 | 23464 | | | | | | | | |
| 0.07 | 18000 | 100300 | 20212 | | | | | | | | |
| 0.08 | 18000 | 100300 | 17984 | | | | | | | | |
| 0.09 | 18000 | 100300 | 16358 | | | | | | | | |
| 0.10 | 18000 | 100300 | 13751 | | | | | | | | |
| 0.11 | 18000 | 100300 | 12235 | | | | | | | | |
| 0.14 | 18000 | 100300 | 10033 | | | | | | | | |
| 0.16 | 18000 | 100300 | 9021 | | | | | | | | |
| 0.17 | 18000 | 100300 | 8026 | | | | | | | | |
| 0.20 | 18000 | 100300 | 7075 | | | | | | | | |
| 0.22 | 18000 | 100300 | 6295 | | | | | | | | |
| 0.26 | 18000 | 100300 | 5404 | | | | | | | | |
| 0.29 | 18000 | 100300 | 4831 | | | | | | | | |
| 0.34 | 18000 | 100300 | 4130 | | | | | | | | |
| 0.39 | 18000 | 100300 | 3607 | | | | | | | | |
| 0.44 | 18000 | 100300 | 3210 | | | | | | | | |
| 0.50 | 18000 | 100300 | 2780 | | | | | | | | |
| 0.97 | 18000 | 100300 | 1441 | | | | | | | | |
| 3Stage / 2Stage | | | | | | | | | | | |
| 0.58 | 18000 | 100300 | 2427 | | | | | | | | |
| 0.64 | 18000 | 100300 | 2185 | | | | | | | | |
| 0.72 | 18000 | 100300 | 1944 | | | | | | | | |
| 0.84 | 18000 | 100300 | 1674 | | | | | | | | |
| 1.1 | 18000 | 100300 | 1308 | | | | | | | | |
| 1.2 | 18000 | 100300 | 1169 | | | | | | | | |
| 1.5 | 18000 | 100300 | 953 | | | | | | | | |
| 1.7 | 18000 | 100300 | 845 | | | | | | | | |
| 1.8 | 18000 | 100300 | 764 | | | | | | | | |
| 2.1 | 18000 | 100300 | 680 | | | | | | | | |
| 2.4 | 18000 | 100300 | 576 | | | | | | | | |
| 2.8 | 18000 | 100300 | 503 | | | | | | | | |
| 3.1 | 18000 | 100300 | 446 | | | | | | | | |
| 4.0 | 18000 | 100300 | 353 | | | | | | | | |
| 4.6 | 18000 | 100300 | 302 | | | | | | | | |
| 5.1 | 18000 | 100300 | 273 | | | | | | | | |
| 6.0 | 18000 | 100300 | 232 | | | | | | | | |
| 6.9 | 18000 | 100300 | 202 | | | | | | | | |
| 7.1 | 18000 | 100300 | 197 | | | | | | | | |


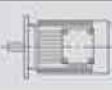
6.2 TF..MY.. Performance parameter


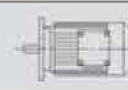
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|----------------|--|---|------|
| 0.12 | 0.06 | 13900 | 22323 | 86700 | 0.85 | TFA 128 / TRF78 | MY 63S4 | 133 |
| | 0.07 | 11900 | 19048 | 90000 | 1.00 | TFAF 128 / TRF78 | MY 63S4 | 133 |
| | 0.08 | 10400 | 16656 | 90000 | 1.15 | TF 128 / TRF78 | MY 63S4 | 133 |
| | 0.09 | 9180 | 14722 | 90000 | 1.30 | TFF 128 / TRF78 | MY 63S4 | 133 |
| | 0.11 | 8000 | 12912 | 90000 | 1.50 | | | |
| | 0.12 | 7050 | 11656 | 90000 | 1.70 | | | |
| | 0.14 | 6310 | 10191 | 90000 | 1.90 | | | |
| | 0.09 | 9210 | 14767 | 45500 | 0.85 | TFA 108 / TRF78 | MY 63S4 | 133 |
| | 0.12 | 7080 | 11348 | 51400 | 1.10 | TFAF 108 / TRF78 | MY 63S4 | 133 |
| | 0.14 | 5750 | 10039 | 54600 | 1.35 | TF 108 / TRF78 | MY 63S4 | 133 |
| | 0.16 | 4680 | 8548 | 57000 | 1.65 | TFF 108 / TRF78 | MY 63S4 | 133 |
| | 0.18 | 4750 | 7674 | 56800 | 1.60 | | | |
| | 0.20 | 4090 | 6767 | 58200 | 1.90 | | | |
| | 0.23 | 3470 | 5954 | 59500 | 2.2 | | | |
| | 0.26 | 2990 | 5223 | 60400 | 2.6 | | | |
| | 0.30 | 2850 | 4567 | 60700 | 2.7 | | | |
| | 0.39 | 2130 | 3521 | 62000 | 3.6 | | | |
| | 0.21 | 4150 | 6469 | 30400 | 1.05 | TFA 98 / TRF58 | MY 63S4 | 133 |
| | 0.25 | 3820 | 5615 | 31300 | 1.15 | TFAF 98 / TRF58 | MY 63S4 | 133 |
| | 0.28 | 3320 | 4961 | 32500 | 1.30 | TF 98 / TRF58 | MY 63S4 | 133 |
| | 0.32 | 2900 | 4333 | 33500 | 1.50 | TFF 98 / TRF58 | MY 63S4 | 133 |
| | 0.35 | 2690 | 3906 | 34000 | 1.60 | TFA 98 / TRF58 | MY 63S4 | 133 |
| | 0.41 | 2320 | 3352 | 34800 | 1.85 | TFAF 98 / TRF58 | MY 63S4 | 133 |
| | 0.47 | 1920 | 2907 | 35500 | 2.2 | TF 98 / TRF58 | MY 63S4 | 133 |
| | 0.54 | 1760 | 2553 | 35800 | 2.4 | TFF 98 / TRF58 | MY 63S4 | 133 |
| | 0.33 | 2770 | 4245 | 23800 | 1.10 | TFA 88 / TRF58 | MY 63S4 | 133 |
| | 0.37 | 2220 | 3721 | 25800 | 1.35 | TFAF 88 / TRF58 | MY 63S4 | 133 |
| | | | | | | TF 88 / TRF58 | MY 63S4 | 133 |
| | | | | | | TFF 88 / TRF58 | MY 63S4 | 133 |
| | 0.43 | 2250 | 3244 | 25700 | 1.35 | TFA 88 / TRF58 | MY 63S4 | 133 |
| | 0.48 | 1990 | 2881 | 26500 | 1.50 | TFAF 88 / TRF58 | MY 63S4 | 133 |
| | 0.54 | 1780 | 2576 | 27100 | 1.70 | TF 88 / TRF58 | MY 63S4 | 133 |
| | 0.63 | 1520 | 2199 | 27800 | 2.0 | TFF 88 / TRF58 | MY 63S4 | 133 |
| | 0.72 | 1310 | 1930 | 28300 | 2.3 | | | |
| | 0.81 | 1180 | 1709 | 28600 | 2.6 | | | |
| | 0.92 | 1030 | 1493 | 28900 | 2.9 | | | |
| | 1.1 | 820 | 1300 | 29300 | 3.7 | | | |
| | 1.2 | 745 | 1148 | 29500 | 4.0 | | | |
| | 0.53 | 1820 | 2613 | 13000 | 0.80 | TFA 78 / TRF38 | MY 63S4 | 133 |
| | 0.60 | 1570 | 2284 | 15200 | 0.95 | TFAF 78 / TRF38 | MY 63S4 | 133 |
| | 0.68 | 1390 | 2029 | 16400 | 1.10 | TF 78 / TRF38 | MY 63S4 | 133 |
| | | | | | | TFF 78 / TRF38 | MY 63S4 | 133 |
| | 0.80 | 1180 | 1728 | 17500 | 1.25 | TFA 78 / TRF38 | MY 63S4 | 133 |
| | 0.89 | 1090 | 1544 | 17900 | 1.40 | TFAF 78 / TRF38 | MY 63S4 | 133 |
| | 1.0 | 960 | 1354 | 18500 | 1.55 | TF 78 / TRF38 | MY 63S4 | 133 |
| 1.2 | 850 | 1200 | 18800 | 1.75 | TFF 78 / TRF38 | MY 63S4 | 133 | |
| 1.3 | 745 | 1053 | 19100 | 2.0 | | | | |
| 1.5 | 635 | 910 | 19400 | 2.4 | | | | |
| 1.7 | 530 | 810 | 19600 | 2.8 | | | | |
| 1.9 | 465 | 710 | 19800 | 3.2 | | | | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|---|------|
| 0.12 | 0.97 | 960 | 1429 | 7070 | 0.85 | TFA 68 / TRF38 | MY 63S4 | 133 |
| | 1.1 | 870 | 1271 | 9850 | 0.95 | TFAF 68 / TRF38 | MY 63S4 | 133 |
| | 1.2 | 725 | 1102 | 11100 | 1.15 | TF 68 / TRF38 | MY 63S4 | 133 |
| | 1.4 | 640 | 970 | 11700 | 1.30 | TFF 68 / TRF38 | MY 63S4 | 133 |
| | 1.6 | 560 | 858 | 12100 | 1.45 | | | |
| | 1.8 | 495 | 755 | 12400 | 1.65 | | | |
| | 2.1 | 420 | 641 | 12700 | 1.95 | | | |
| | 2.4 | 390 | 572 | 12800 | 2.1 | | | |
| | 2.7 | 330 | 509 | 13000 | 2.5 | | | |
| | 3.2 | 290 | 437 | 13000 | 2.9 | | | |
| | 1.6 | 615 | 851 | 9100 | 1.00 | TFA 58 / TRF38 | MY 63S4 | 133 |
| | 1.9 | 525 | 738 | 9750 | 1.15 | TFAF 58 / TRF38 | MY 63S4 | 133 |
| | 2.1 | 455 | 646 | 10200 | 1.30 | TF 58 / TRF38 | MY 63S4 | 133 |
| | 2.5 | 390 | 558 | 10600 | 1.55 | TFF 58 / TRF38 | MY 63S4 | 133 |
| | 2.7 | 345 | 506 | 10900 | 1.75 | | | |
| | 3.1 | 300 | 452 | 11100 | 2.0 | | | |
| | 3.2 | 310 | 426 | 11100 | 2.0 | TFA 58 / TRF38 | MY 63S4 | 133 |
| | 3.6 | 275 | 382 | 11300 | 2.2 | TFAF 58 / TRF38 | MY 63S4 | 133 |
| | 4.2 | 235 | 330 | 11500 | 2.6 | TF 58 / TRF38 | MY 63S4 | 133 |
| | 4.6 | 210 | 298 | 11500 | 2.9 | TFF 58 / TRF38 | MY 63S4 | 133 |
| | 5.3 | 185 | 262 | 11500 | 3.2 | | | |
| | 2.5 | 385 | 543 | 6100 | 1.05 | TFA 48 / TRF18 | MY 63S4 | 133 |
| | 2.9 | 335 | 475 | 6740 | 1.20 | TFAF 48 / TRF18 | MY 63S4 | 133 |
| | 3.3 | 290 | 419 | 7150 | 1.40 | TF 48 / TRF18 | MY 63S4 | 133 |
| | | | | | | TFF 48 / TRF18 | MY 63S4 | 133 |
| | 2.6 | 380 | 524 | 6190 | 1.05 | TFA 48 / TRF18 | MY 63S4 | 133 |
| | 2.8 | 355 | 489 | 6530 | 1.15 | TFAF 48 / TRF18 | MY 63S4 | 133 |
| | 3.2 | 305 | 427 | 7020 | 1.30 | TF 48 / TRF18 | MY 63S4 | 133 |
| | 3.6 | 270 | 381 | 7310 | 1.50 | TFF 48 / TRF18 | MY 63S4 | 133 |
| | 4.1 | 235 | 334 | 7550 | 1.70 | | | |
| | 4.7 | 205 | 295 | 7740 | 1.95 | | | |
| | 5.5 | 172 | 253 | 7910 | 2.3 | | | |
| | 4.3 | 220 | 322 | 3990 | 0.90 | TFA 38 / TRF18 | MY 63S4 | 133 |
| | 5.0 | 192 | 278 | 4410 | 1.05 | TFAF 38 / TRF18 | MY 63S4 | 133 |
| | 5.7 | 162 | 242 | 4750 | 1.25 | TF 38 / TRF18 | MY 63S4 | 133 |
| | 6.2 | 156 | 221 | 4820 | 1.30 | TFF 38 / TRF18 | MY 63S4 | 133 |
| | 4.2 | 235 | 326 | 3710 | 0.85 | TFA 38 / TRF18 | MY 63S4 | 133 |
| | 4.9 | 205 | 285 | 4250 | 1.00 | TFAF 38 / TRF18 | MY 63S4 | 133 |
| | 5.5 | 177 | 250 | 4590 | 1.15 | TF 38 / TRF18 | MY 63S4 | 133 |
| | 6.3 | 156 | 219 | 4820 | 1.30 | TFF 38 / TRF18 | MY 63S4 | 133 |
| | 7.4 | 132 | 186 | 5040 | 1.50 | | | |
| | 8.3 | 118 | 167 | 5140 | 1.70 | | | |
| | 6.2 | 155 | 221 | 4500 | 0.85 | TFA 28 / TRF18 | MY 63S4 | 133 |
| | 8.0 | 119 | 172 | 4500 | 1.10 | TFAF 28 / TRF18 | MY 63S4 | 133 |
| | 9.1 | 104 | 153 | 4500 | 1.25 | TF 28 / TRF18 | MY 63S4 | 133 |
| | 11 | 87 | 130 | 4500 | 1.50 | TFF 28 / TRF18 | MY 63S4 | 133 |
| | 6.5 | 150 | 211 | 4500 | 0.85 | TFA 28 / TRF18 | MY 63S4 | 133 |
| | 7.4 | 131 | 186 | 4500 | 1.00 | TFAF 28 / TRF18 | MY 63S4 | 133 |
| | 9.7 | 102 | 142 | 4500 | 1.25 | TF 28 / TRF18 | MY 63S4 | 133 |
| | 11 | 88 | 124 | 4500 | 1.45 | TFF 28 / TRF18 | MY 63S4 | 133 |
| | 13 | 77 | 109 | 4500 | 1.70 | | | |
| | 14 | 67 | 96 | 4500 | 1.95 | | | |
| | 3.9 | 290 | 228.99 | 13000 | 2.8 | TFA 68 | MY 63M6 | 107 |
| | 4.6 | 250 | 195.39 | 13000 | 3.3 | TFAF 68 | MY 63M6 | 106 |
| | 5.3 | 220 | 170.85 | 13000 | 3.8 | TF 68 | MY 63M6 | 105 |
| | 5.5 | 205 | 162.31 | 13000 | 4.0 | TFF 68 | MY 63M6 | 106 |
| | 6.3 | 181 | 142.40 | 13000 | 4.5 | | | |


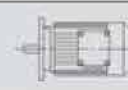
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|------|
| 0.12 | 4.5 | 255 | 199.70 | 11400 | 2.4 | TFA 58 | MY 63M6 | 103 |
| | 4.9 | 235 | 183.60 | 11500 | 2.6 | TFAF 58 | MY 63M6 | 102 |
| | 5.7 | 200 | 157.09 | 11500 | 3.0 | TF 58 | MY 63M6 | 101 |
| | 6.6 | 173 | 136.16 | 11500 | 3.5 | TFF 58 | MY 63M6 | 102 |
| | 7.1 | 162 | 127.27 | 11500 | 3.7 | | | |
| | 6.9 | 166 | 199.70 | 11500 | 3.6 | TFA 58 | MY 63S4 | 103 |
| | 7.5 | 153 | 183.60 | 11500 | 3.9 | TFAF 58 | MY 63S4 | 102 |
| | 8.8 | 130 | 157.09 | 11500 | 4.6 | TF 58 | MY 63S4 | 101 |
| | 10 | 113 | 136.16 | 11500 | 5.3 | TFF 58 | MY 63S4 | 102 |
| | 4.7 | 245 | 190.76 | 7510 | 1.65 | TFA 48 | MY 63M6 | 99 |
| | 5.1 | 225 | 175.38 | 7640 | 1.80 | TFAF 48 | MY 63M6 | 98 |
| | 6.0 | 191 | 150.06 | 7820 | 2.1 | TF 48 | MY 63M6 | 97 |
| | 6.9 | 166 | 130.07 | 7940 | 2.4 | TFF 48 | MY 63M6 | 98 |
| | 7.4 | 155 | 121.57 | 7990 | 2.6 | | | |
| | 8.6 | 134 | 105.09 | 8070 | 3.0 | | | |
| | 10 | 114 | 89.29 | 8130 | 3.5 | | | |
| | 11 | 102 | 79.72 | 8160 | 3.9 | | | |
| | 7.2 | 158 | 190.76 | 7970 | 2.5 | TFA 48 | MY 63S4 | 99 |
| | 7.9 | 146 | 175.38 | 8020 | 2.8 | TFAF 48 | MY 63S4 | 98 |
| | 9.2 | 125 | 150.06 | 8100 | 3.2 | TF 48 | MY 63S4 | 97 |
| | 11 | 108 | 130.07 | 8150 | 3.7 | TFF 48 | MY 63S4 | 98 |
| | 7.0 | 164 | 128.51 | 4740 | 1.20 | TFA 38 | MY 63M6 | 95 |
| | 7.6 | 150 | 117.88 | 4880 | 1.35 | TFAF 38 | MY 63M6 | 94 |
| | 9.0 | 128 | 100.36 | 5070 | 1.55 | TF 38 | MY 63M6 | 93 |
| | 10 | 110 | 86.53 | 5190 | 1.80 | TFF 38 | MY 63M6 | 94 |
| | 11 | 103 | 80.65 | 5240 | 1.95 | | | |
| | 11 | 107 | 128.51 | 5220 | 1.85 | TFA 38 | MY 63S4 | 95 |
| | 12 | 98 | 117.88 | 5270 | 2.0 | TFAF 38 | MY 63S4 | 94 |
| | 14 | 83 | 100.36 | 5340 | 2.4 | TF 38 | MY 63S4 | 93 |
| | 16 | 72 | 86.53 | 5400 | 2.8 | TFF 38 | MY 63S4 | 94 |
| | 17 | 67 | 80.65 | 5410 | 3.0 | | | |
| | 8.2 | 140 | 109.90 | 4500 | 0.95 | TFA 28 | MY 63M6 | 91 |
| | 9.5 | 121 | 94.76 | 4500 | 1.10 | TFAF 28 | MY 63M6 | 90 |
| | 10 | 113 | 88.32 | 4500 | 1.15 | TF 28 | MY 63M6 | 89 |
| | 12 | 98 | 77.21 | 4500 | 1.30 | TFF 28 | MY 63M6 | 90 |
| | 9.8 | 117 | 140.74 | 4500 | 1.10 | TFA 28 | MY 63S4 | 91 |
| | 11 | 107 | 129.09 | 4500 | 1.20 | TFAF 28 | MY 63S4 | 90 |
| | 13 | 91 | 109.90 | 4500 | 1.40 | TF 28 | MY 63S4 | 89 |
| | 15 | 79 | 94.76 | 4500 | 1.65 | TFF 28 | MY 63S4 | 90 |
| | 16 | 73 | 88.32 | 4500 | 1.75 | | | |
| | 18 | 64 | 77.21 | 4500 | 2.0 | | | |
| | 19 | 60 | 72.37 | 4500 | 2.2 | | | |
| | 22 | 53 | 63.86 | 4500 | 2.5 | | | |
| | 24 | 47 | 56.62 | 4500 | 2.8 | | | |
| | 28 | 42 | 50.19 | 4500 | 3.1 | | | |
| | 30 | 39 | 46.78 | 4500 | 3.4 | | | |
| | 34 | 34 | 40.89 | 4500 | 3.8 | | | |
| | 36 | 32 | 38.33 | 4430 | 4.1 | | | |
| | 41 | 28 | 33.83 | 4270 | 4.6 | | | |
| | 47 | 25 | 29.56 | 4100 | 5.3 | TFA 28 | MY 63S4 | 91 |
| 51 | 23 | 27.18 | 4000 | 5.8 | TFAF 28 | MY 63S4 | 90 | |
| 59 | 19 | 23.25 | 3820 | 6.7 | TF 28 | MY 63S4 | 89 | |
| 68 | 17 | 20.15 | 3650 | 7.8 | TFF 28 | MY 63S4 | 90 | |
| 73 | 16 | 18.84 | 3580 | 8.3 | | | | |
| 85 | 14 | 16.28 | 3420 | 9.6 | | | | |
| 100 | 12 | 13.84 | 3250 | 11 | | | | |


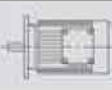
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|-----------------|--|---|------|
| 0.12 | 112 | 10 | 12.35 | 3140 | 13 | TFA 28 | MY 63S4 | 91 |
| | 131 | 8.8 | 10.55 | 2990 | 15 | TFAF 28 | MY 63S4 | 90 |
| | 140 | 8.2 | 9.88 | 2930 | 16 | TF 28 | MY 63S4 | 89 |
| | 147 | 7.8 | 9.40 | 2870 | 17 | TFF 28 | MY 63S4 | 90 |
| | 170 | 6.7 | 8.13 | 2740 | 18 | | | |
| | 200 | 5.7 | 6.91 | 2600 | 20 | | | |
| | 224 | 5.1 | 6.17 | 2510 | 21 | | | |
| | 262 | 4.4 | 5.27 | 2390 | 23 | | | |
| | 280 | 4.1 | 4.93 | 2340 | 23 | | | |
| | 332 | 3.5 | 4.16 | 2210 | 25 | | | |
| 0.18 | 0.10 | 13700 | 12912 | 87200 | 0.90 | TFA 128 / TRF78 | MY 63M4 | 133 |
| | 0.11 | 12200 | 11656 | 90000 | 1.00 | TFAF 128 / TRF78 | MY 63M4 | 133 |
| | 0.13 | 10800 | 10191 | 90000 | 1.10 | TF 128 / TRF78 | MY 63M4 | 133 |
| | 0.15 | 8950 | 8831 | 90000 | 1.35 | TFF 128 / TRF78 | MY 63M4 | 133 |
| | 0.17 | 7740 | 7643 | 90000 | 1.55 | | | |
| | 0.20 | 7130 | 6715 | 90000 | 1.70 | | | |
| | 0.15 | 8450 | 8548 | 47700 | 0.90 | TFA 108 / TRF78 | MY 63M4 | 133 |
| | 0.17 | 8130 | 7674 | 48600 | 0.95 | TFAF 108 / TRF78 | MY 63M4 | 133 |
| | 0.20 | 7070 | 6767 | 51400 | 1.10 | TF 108 / TRF78 | MY 63M4 | 133 |
| | 0.22 | 6090 | 5954 | 53800 | 1.25 | TFF 108 / TRF78 | MY 63M4 | 133 |
| | 0.25 | 5290 | 5223 | 55700 | 1.45 | | | |
| | 0.29 | 4850 | 4567 | 56600 | 1.60 | | | |
| | 0.37 | 3680 | 3521 | 59100 | 2.1 | | | |
| | 0.43 | 3260 | 3037 | 59900 | 2.4 | TFA 108 / TRF78 | MY 63M4 | 133 |
| | 0.48 | 2960 | 2756 | 60500 | 2.6 | TFAF 108 / TRF78 | MY 63M4 | 133 |
| | 0.56 | 2540 | 2369 | 61200 | 3.0 | TF 108 / TRF78 | MY 63M4 | 133 |
| | 0.64 | 2220 | 2068 | 61800 | 3.5 | TFF 108 / TRF78 | MY 63M4 | 133 |
| | 0.30 | 4810 | 4333 | 22800 | 0.90 | TFA 98 / TRF58 | MY 63M4 | 133 |
| | | | | | | TFAF 98 / TRF58 | MY 63M4 | 133 |
| | | | | | | TF 98 / TRF58 | MY 63M4 | 133 |
| | | | | | | TFF 98 / TRF58 | MY 63M4 | 133 |
| | 0.34 | 4430 | 3906 | 29500 | 0.95 | TFA 98 / TRF58 | MY 63M4 | 133 |
| | 0.39 | 3810 | 3352 | 31300 | 1.15 | TFAF 98 / TRF58 | MY 63M4 | 133 |
| | 0.45 | 3210 | 2907 | 32800 | 1.35 | TF 98 / TRF58 | MY 63M4 | 133 |
| | 0.52 | 2900 | 2553 | 33600 | 1.50 | TFF 98 / TRF58 | MY 63M4 | 133 |
| | 0.59 | 2550 | 2245 | 34300 | 1.70 | | | |
| | 0.67 | 2210 | 1970 | 35000 | 1.95 | | | |
| | 0.77 | 1960 | 1722 | 35500 | 2.2 | | | |
| | 0.86 | 1740 | 1527 | 35900 | 2.5 | | | |
| | 0.99 | 1430 | 1327 | 36400 | 3.0 | | | |
| | 1.1 | 1330 | 1171 | 36500 | 3.2 | | | |
| | 0.51 | 2930 | 2576 | 22300 | 1.00 | TFA 88 / TRF58 | MY 63M4 | 133 |
| | 0.60 | 2490 | 2199 | 24800 | 1.20 | TFAF 88 / TRF58 | MY 63M4 | 133 |
| | 0.68 | 2170 | 1930 | 25900 | 1.40 | TF 88 / TRF58 | MY 63M4 | 133 |
| | 0.77 | 1940 | 1709 | 26600 | 1.55 | TFF 88 / TRF58 | MY 63M4 | 133 |
| | 0.88 | 1700 | 1493 | 27300 | 1.75 | | | |
| | 1.0 | 1400 | 1300 | 28100 | 2.1 | | | |
| | 1.2 | 1260 | 1148 | 28400 | 2.4 | | | |
| | 1.3 | 1090 | 1010 | 28800 | 2.8 | | | |
| | 1.5 | 970 | 887 | 29000 | 3.1 | | | |
| 1.7 | 840 | 780 | 29300 | 3.6 | | | | |
| 0.86 | 1780 | 1544 | 13500 | 0.85 | TFA 78 / TRF38 | MY 63M4 | 133 | |
| 0.98 | 1560 | 1354 | 15300 | 0.95 | TFAF 78 / TRF38 | MY 63M4 | 133 | |
| 1.1 | 1380 | 1200 | 16500 | 1.10 | TF 78 / TRF38 | MY 63M4 | 133 | |
| 1.2 | 1210 | 1053 | 17400 | 1.25 | TFF 78 / TRF38 | MY 63M4 | 133 | |
| 1.4 | 1040 | 910 | 18200 | 1.45 | | | | |


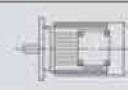
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|----------------|--|---|------|
| 0.18 | 1.6 | 890 | 810 | 18700 | 1.70 | TFA 78 / TRF38 | MY 63M4 | 133 |
| | 1.9 | 780 | 710 | 19000 | 1.90 | TFAF 78 / TRF38 | MY 63M4 | 133 |
| | 2.1 | 695 | 615 | 19300 | 2.20 | TF 78 / TRF38 | MY 63M4 | 133 |
| | | | | | | TFF 78 / TRF38 | MY 63M4 | 133 |
| | 1.5 | 940 | 858 | 8660 | 0.85 | TFA 68 / TRF38 | MY 63M4 | 133 |
| | 1.8 | 830 | 755 | 10200 | 1.00 | TFAF 68 / TRF38 | MY 63M4 | 133 |
| | 2.1 | 705 | 641 | 11200 | 1.15 | TF 68 / TRF38 | MY 63M4 | 133 |
| | 2.3 | 645 | 572 | 11600 | 1.25 | TFF 68 / TRF38 | MY 63M4 | 133 |
| | 2.6 | 560 | 509 | 12100 | 1.45 | | | |
| | 3.0 | 480 | 437 | 12500 | 1.70 | | | |
| | 3.4 | 435 | 384 | 12700 | 1.90 | | | |
| | 2.6 | 580 | 500 | 12000 | 1.40 | TFA 68 / TRF38 | MY 63M4 | 133 |
| | 2.9 | 530 | 454 | 12300 | 1.55 | TFAF 68 / TRF38 | MY 63M4 | 133 |
| | 3.4 | 455 | 392 | 12600 | 1.80 | TF 68 / TRF38 | MY 63M4 | 133 |
| | 4.0 | 380 | 333 | 12900 | 2.2 | TFF 68 / TRF38 | MY 63M4 | 133 |
| | 4.4 | 335 | 297 | 13000 | 2.4 | | | |
| | 5.1 | 295 | 261 | 13000 | 2.8 | | | |
| | 5.5 | 265 | 238 | 13000 | 3.1 | | | |
| | 6.6 | 220 | 200 | 13000 | 3.7 | | | |
| | 2.4 | 640 | 558 | 7570 | 0.95 | TFA 58 / TRF38 | MY 63M4 | 133 |
| | 2.6 | 570 | 506 | 9420 | 1.05 | TFAF 58 / TRF38 | MY 63M4 | 133 |
| | 2.9 | 500 | 452 | 9930 | 1.20 | TF 58 / TRF38 | MY 63M4 | 133 |
| | 3.4 | 425 | 386 | 10400 | 1.40 | TFF 58 / TRF38 | MY 63M4 | 133 |
| | 3.9 | 370 | 338 | 10700 | 1.60 | | | |
| | 3.1 | 500 | 426 | 9910 | 1.20 | TFA 58 / TRF38 | MY 63M4 | 133 |
| | 3.5 | 445 | 382 | 10300 | 1.35 | TFAF 58 / TRF38 | MY 63M4 | 133 |
| | 4.0 | 380 | 330 | 10700 | 1.55 | TF 58 / TRF38 | MY 63M4 | 133 |
| | 4.4 | 345 | 298 | 10900 | 1.75 | TFF 58 / TRF38 | MY 63M4 | 133 |
| | 5.0 | 305 | 262 | 11100 | 2.0 | | | |
| | 5.8 | 255 | 226 | 11400 | 2.3 | | | |
| | 6.6 | 225 | 200 | 11500 | 2.7 | | | |
| | 3.6 | 410 | 370 | 5210 | 0.95 | TFA 48 / TRF18 | MY 63M4 | 133 |
| | 4.1 | 375 | 324 | 6250 | 1.05 | TFAF 48 / TRF18 | MY 63M4 | 133 |
| | 4.6 | 325 | 288 | 6810 | 1.20 | TF 48 / TRF18 | MY 63M4 | 133 |
| | 5.3 | 280 | 249 | 7250 | 1.45 | TFF 48 / TRF18 | MY 63M4 | 133 |
| | 4.0 | 385 | 334 | 6100 | 1.05 | TFA 48 / TRF18 | MY 63M4 | 133 |
| | 4.5 | 340 | 295 | 6680 | 1.20 | TFAF 48 / TRF18 | MY 63M4 | 133 |
| | 5.2 | 285 | 253 | 7190 | 1.40 | TF 48 / TRF18 | MY 63M4 | 133 |
| | 6.1 | 255 | 217 | 7430 | 1.55 | TFF 48 / TRF18 | MY 63M4 | 133 |
| | 7.0 | 220 | 190 | 7650 | 1.80 | | | |
| | 7.4 | 205 | 178 | 7740 | 1.95 | | | |
| | 7.1 | 215 | 186 | 4060 | 0.95 | TFA 38 / TRF18 | MY 63M4 | 133 |
| | 7.9 | 194 | 167 | 4380 | 1.05 | TFAF 38 / TRF18 | MY 63M4 | 133 |
| | 9.1 | 171 | 145 | 4660 | 1.15 | TF 38 / TRF18 | MY 63M4 | 133 |
| | 10 | 151 | 129 | 4870 | 1.30 | TFF 38 / TRF18 | MY 63M4 | 133 |
| | 9.3 | 166 | 142 | 4500 | 0.80 | TFA 28 / TRF18 | MY 63M4 | 133 |
| | 11 | 144 | 124 | 4500 | 0.90 | TFAF 28 / TRF18 | MY 63M4 | 133 |
| | 12 | 126 | 109 | 4500 | 1.05 | TF 28 / TRF18 | MY 63M4 | 133 |
| 14 | 110 | 96 | 4500 | 1.20 | TFF 28 / TRF18 | MY 63M4 | 133 | |
| 3.1 | 555 | 281.71 | 19600 | 2.7 | TFA 78 | MY 63L6 | 111 | |
| 3.3 | 520 | 262.93 | 19700 | 2.9 | TFAF 78 | MY 63L6 | 110 | |
| 3.9 | 445 | 225.79 | 19800 | 3.4 | TF 78 | MY 63L6 | 109 | |
| | | | | | TFF 78 | MY 63L6 | 110 | |
| 3.8 | 450 | 228.99 | 12600 | 1.80 | TFA 68 | MY 63L6 | 107 | |
| 4.5 | 385 | 195.39 | 12900 | 2.1 | TFAF 68 | MY 63L6 | 106 | |
| 5.1 | 340 | 170.85 | 13000 | 2.4 | TF 68 | MY 63L6 | 105 | |
| | | | | | TFF 68 | MY 63L6 | 106 | |


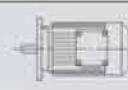
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | fs |  |  | Page |
|------------------|------------------|------------------|--------|---------------|---------|--|---|------|
| 0.18 | 5.8 | 300 | 228.99 | 13000 | 2.8 | TFA 68 | MY 63M4 | 107 |
| | 6.8 | 255 | 195.39 | 13000 | 3.2 | TFAF 68 | MY 63M4 | 106 |
| | 7.7 | 225 | 170.85 | 13000 | 3.7 | TF 68 | MY 63M4 | 105 |
| | | | | | | TFF 68 | MY 63M4 | 106 |
| | 4.4 | 395 | 199.70 | 10600 | 1.50 | TFA 58 | MY 63L6 | 103 |
| | 4.7 | 365 | 183.60 | 10800 | 1.65 | TFAF 58 | MY 63L6 | 102 |
| | 5.5 | 310 | 157.09 | 11100 | 1.95 | TF 58 | MY 63L6 | 101 |
| | 6.4 | 270 | 136.16 | 11300 | 2.2 | TFF 58 | MY 63L6 | 102 |
| | 6.8 | 250 | 127.27 | 11400 | 2.4 | | | |
| | 7.9 | 215 | 110.01 | 11500 | 2.8 | | | |
| | 6.6 | 260 | 199.70 | 11300 | 2.3 | TFA 58 | MY 63M4 | 103 |
| | 7.2 | 240 | 183.60 | 11500 | 2.5 | TFAF 58 | MY 63M4 | 102 |
| | 8.4 | 205 | 157.09 | 11500 | 2.9 | TF 58 | MY 63M4 | 101 |
| | 9.7 | 177 | 136.16 | 11500 | 3.4 | TFF 58 | MY 63M4 | 102 |
| | 10 | 166 | 127.27 | 11500 | 3.6 | | | |
| | 4.6 | 375 | 190.76 | 6240 | 1.05 | TFA 48 | MY 63L6 | 99 |
| | 5.0 | 345 | 175.38 | 6600 | 1.15 | TFAF 48 | MY 63L6 | 98 |
| | 5.8 | 295 | 150.06 | 7090 | 1.35 | TF 48 | MY 63L6 | 97 |
| | 6.7 | 255 | 130.07 | 7410 | 1.55 | TFF 48 | MY 63L6 | 98 |
| | 7.2 | 240 | 121.57 | 7530 | 1.65 | | | |
| | 6.9 | 250 | 190.76 | 7470 | 1.60 | TFA 48 | MY 63M4 | 99 |
| | 7.5 | 230 | 175.38 | 7610 | 1.75 | TFAF 48 | MY 63M4 | 98 |
| | 8.8 | 195 | 150.06 | 7800 | 2.1 | TF 48 | MY 63M4 | 97 |
| | 10 | 169 | 130.07 | 7920 | 2.4 | TFF 48 | MY 63M4 | 98 |
| | 11 | 158 | 121.57 | 7970 | 2.5 | | | |
| | 7.4 | 235 | 117.88 | 3750 | 0.85 | TFA 38 | MY 63L6 | 95 |
| | 8.7 | 198 | 100.36 | 4320 | 1.00 | TFAF 38 | MY 63L6 | 94 |
| | 10 | 171 | 86.53 | 4660 | 1.15 | TF 38 | MY 63L6 | 93 |
| | 11 | 159 | 80.65 | 4790 | 1.25 | TFF 38 | MY 63L6 | 94 |
| | 12 | 139 | 70.50 | 4970 | 1.45 | | | |
| | 10 | 167 | 128.51 | 4700 | 1.20 | TFA 38 | MY 63M4 | 95 |
| | 11 | 154 | 117.88 | 4850 | 1.30 | TFAF 38 | MY 63M4 | 94 |
| | 13 | 131 | 100.36 | 5050 | 1.55 | TF 38 | MY 63M4 | 93 |
| | 15 | 113 | 86.53 | 5180 | 1.75 | TFF 38 | MY 63M4 | 94 |
| | 16 | 105 | 80.65 | 5230 | 1.90 | | | |
| | 19 | 92 | 70.50 | 5300 | 2.2 | | | |
| | 20 | 86 | 66.09 | 5330 | 2.3 | | | |
| | 23 | 76 | 58.32 | 5380 | 2.6 | | | |
| | 12 | 143 | 109.9 | 4500 | 0.90 | TFA 28 | MY 63M4 | 91 |
| | 14 | 123 | 94.76 | 4500 | 1.05 | TFAF 28 | MY 63M4 | 90 |
| | 15 | 115 | 88.32 | 4500 | 1.15 | TF 28 | MY 63M4 | 89 |
| | 17 | 101 | 77.21 | 4500 | 1.30 | TFF 28 | MY 63M4 | 90 |
| | 18 | 94 | 72.37 | 4500 | 1.40 | | | |
| | 21 | 83 | 63.86 | 4500 | 1.55 | | | |
| | 23 | 74 | 56.62 | 4500 | 1.75 | | | |
| | 26 | 65 | 50.19 | 4500 | 2.0 | | | |
| | 28 | 61 | 46.78 | 4500 | 2.1 | | | |
| | 32 | 53 | 40.89 | 4410 | 2.4 | | | |
| | 34 | 50 | 38.33 | 4340 | 2.6 | | | |
| | 39 | 44 | 33.83 | 4200 | 3.0 | | | |
| 45 | 39 | 29.56 | 4040 | 3.4 | TFA 28 | MY 63M4 | 91 | |
| 49 | 35 | 27.18 | 3950 | 3.7 | TFAF 28 | MY 63M4 | 90 | |
| 57 | 30 | 23.25 | 3780 | 4.3 | TF 28 | MY 63M4 | 89 | |
| 65 | 26 | 20.15 | 3630 | 5.0 | TFF 28 | MY 63M4 | 90 | |
| 70 | 25 | 18.84 | 3560 | 5.3 | | | | |
| 81 | 21 | 16.28 | 3410 | 6.1 | | | | |


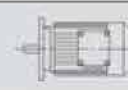
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|-------|--|---|---------|
| 0.18 | 95 | 18 | 13.84 | 3240 | 7.2 | TFA 28 | MY 63M4 | 91 |
| | 107 | 16 | 12.35 | 3140 | 8.1 | TFAF 28 | MY 63M4 | 90 |
| | 125 | 14 | 10.55 | 2990 | 9.5 | TF 28 | MY 63M4 | 89 |
| | 134 | 13 | 9.88 | 2930 | 10 | TFF 28 | MY 63M4 | 90 |
| | 140 | 12 | 9.4 | 2870 | 11 | | | |
| | 162 | 11 | 8.13 | 2750 | 12 | | | |
| | 191 | 9 | 6.91 | 2610 | 13 | | | |
| | 214 | 8 | 6.17 | 2520 | 14 | | | |
| | 251 | 6.9 | 5.27 | 2400 | 15 | | | |
| | 268 | 6.4 | 4.93 | 2350 | 15 | | | |
| | 318 | 5.4 | 4.16 | 2230 | 16 | | | |
| | 335 | 5.1 | 8.13 | 2190 | 24 | TFA 28 | MY 63S2 | 91 |
| | 394 | 4.4 | 6.91 | 2080 | 26 | TFAF 28 | MY 63S2 | 90 |
| | 441 | 3.9 | 6.17 | 2010 | 28 | TF 28 | MY 63S2 | 89 |
| | 516 | 3.3 | 5.27 | 1910 | 30 | TFF 28 | MY 63S2 | 90 |
| | 551 | 3.1 | 4.93 | 1870 | 31 | | | |
| | 655 | 2.6 | 4.16 | 1770 | 34 | | | |
| | 0.25 | 0.15 | 13300 | 8831 | 87900 | 0.90 | TFA 128 / TRF78 | MY 63L4 |
| 0.17 | | 11500 | 7643 | 90000 | 1.05 | TFAF 128 / TRF78 | MY 63L4 | 133 |
| 0.19 | | 10500 | 6715 | 90000 | 1.15 | TF 128 / TRF78 | MY 63L4 | 133 |
| 0.22 | | 9240 | 5925 | 90000 | 1.30 | TFF 128 / TRF78 | MY 63L4 | 133 |
| 0.25 | | 7950 | 5153 | 90000 | 1.50 | | | |
| 0.29 | | 6890 | 4533 | 90000 | 1.75 | | | |
| 0.22 | | 9050 | 5954 | 46000 | 0.85 | TFA 108 / TRF78 | MY 63L4 | 133 |
| 0.25 | | 7890 | 5223 | 49300 | 0.95 | TFAF 108 / TRF78 | MY 63L4 | 133 |
| 0.28 | | 7120 | 4567 | 51300 | 1.10 | TF 108 / TRF78 | MY 63L4 | 133 |
| 0.37 | | 5430 | 3521 | 55300 | 1.40 | TFF 108 / TRF78 | MY 63L4 | 133 |
| 0.43 | | 4790 | 3037 | 56800 | 1.60 | TFA 108 / TRF78 | MY 63L4 | 133 |
| 0.47 | | 4340 | 2756 | 57700 | 1.75 | TFAF 108 / TRF78 | MY 63L4 | 133 |
| 0.55 | | 3730 | 2369 | 59000 | 2.1 | TF 108 / TRF78 | MY 63L4 | 133 |
| 0.63 | | 3260 | 2068 | 59900 | 2.4 | TFF 108 / TRF78 | MY 63L4 | 133 |
| 0.81 | | 2490 | 1597 | 61300 | 3.1 | | | |
| 0.93 | | 2160 | 1401 | 61900 | 3.6 | | | |
| 0.45 | | 4680 | 2907 | 27500 | 0.90 | TFA 98 / TRF58 | MY 63L4 | 133 |
| 0.51 | | 4180 | 2553 | 30300 | 1.05 | TFAF 98 / TRF58 | MY 63L4 | 133 |
| 0.58 | | 3680 | 2245 | 31600 | 1.15 | TF 98 / TRF58 | MY 63L4 | 133 |
| 0.66 | | 3200 | 1970 | 32800 | 1.35 | TFF 98 / TRF58 | MY 63L4 | 133 |
| 0.75 | | 2820 | 1722 | 33700 | 1.50 | | | |
| 0.85 | | 2500 | 1527 | 34400 | 1.70 | | | |
| 0.98 | | 2100 | 1327 | 35200 | 2.1 | | | |
| 1.1 | | 1920 | 1171 | 35500 | 2.2 | | | |
| 1.3 | | 1680 | 1022 | 36000 | 2.6 | | | |
| 0.67 | | 3140 | 1930 | 13500 | 0.95 | TFA 88 / TRF58 | MY 63L4 | 133 |
| 0.76 | | 2800 | 1709 | 23700 | 1.05 | TFAF 88 / TRF58 | MY 63L4 | 133 |
| 0.87 | | 2450 | 1493 | 25000 | 1.25 | TF 88 / TRF58 | MY 63L4 | 133 |
| 1.0 | | 2050 | 1300 | 26300 | 1.45 | TFF 88 / TRF58 | MY 63L4 | 133 |
| 1.1 | | 1830 | 1148 | 26900 | 1.65 | | | |
| 1.3 | | 1600 | 1010 | 27600 | 1.90 | | | |
| 1.5 | | 1420 | 887 | 28000 | 2.1 | | | |
| 1.7 | | 1230 | 780 | 28500 | 2.4 | | | |
| 1.9 | | 1050 | 674 | 28900 | 2.9 | | | |
| 1.2 | | 1740 | 1053 | 13900 | 0.85 | TFA 78 / TRF38 | MY 63L4 | 133 |
| 1.4 | | 1500 | 910 | 15700 | 1.00 | TFAF 78 / TRF38 | MY 63L4 | 133 |
| 1.6 | | 1300 | 810 | 16900 | 1.15 | TF 78 / TRF38 | MY 63L4 | 133 |
| 1.8 | | 1140 | 710 | 17700 | 1.30 | TFF 78 / TRF38 | MY 63L4 | 133 |


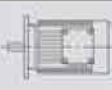
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|---------|-----|
| 0.25 | 2.1 | 1000 | 615 | 18300 | 1.50 | TFA 78 / TRF38 | MY 63L4 | 133 | |
| | 2.4 | 880 | 538 | 18700 | 1.70 | TFAF 78 / TRF38 | MY 63L4 | 133 | |
| | 2.7 | 780 | 480 | 19000 | 1.95 | TF 78 / TRF38 | MY 63L4 | 133 | |
| | 3.1 | 660 | 413 | 19400 | 2.3 | TFF 78 / TRF38 | MY 63L4 | 133 | |
| | 2.3 | 930 | 572 | 9150 | 0.90 | TFA 68 / TRF38 | MY 63L4 | 133 | |
| | 2.6 | 810 | 509 | 10400 | 1.00 | TFAF 68 / TRF38 | MY 63L4 | 133 | |
| | 3.0 | 700 | 437 | 11200 | 1.15 | TF 68 / TRF38 | MY 63L4 | 133 | |
| | | | | | | | TFF 68 / TRF38 | MY 63L4 | 133 |
| | 2.6 | 830 | 500 | 10200 | 1.00 | TFA 68 / TRF38 | MY 63L4 | 133 | |
| | 2.9 | 760 | 454 | 10800 | 1.10 | TFAF 68 / TRF38 | MY 63L4 | 133 | |
| | 3.3 | 655 | 392 | 11600 | 1.25 | TF 68 / TRF38 | MY 63L4 | 133 | |
| | 3.9 | 550 | 333 | 12200 | 1.50 | TFF 68 / TRF38 | MY 63L4 | 133 | |
| | 4.4 | 490 | 297 | 12500 | 1.70 | | | | |
| | 5.0 | 430 | 261 | 12700 | 1.90 | | | | |
| | 5.5 | 385 | 238 | 12900 | 2.1 | | | | |
| | 3.4 | 620 | 386 | 8830 | 0.95 | TFA 58 / TRF38 | MY 63L4 | 133 | |
| | 3.9 | 540 | 338 | 9640 | 1.10 | TFAF 58 / TRF38 | MY 63L4 | 133 | |
| | 5.1 | 410 | 255 | 10500 | 1.45 | TF 58 / TRF38 | MY 63L4 | 133 | |
| | | | | | | | TFF 58 / TRF38 | MY 63L4 | 133 |
| | 3.4 | 640 | 382 | 7390 | 0.95 | TFA 58 / TRF38 | MY 63L4 | 133 | |
| | 3.9 | 550 | 330 | 9570 | 1.10 | TFAF 58 / TRF38 | MY 63L4 | 133 | |
| | 4.4 | 495 | 298 | 9950 | 1.20 | TF 58 / TRF38 | MY 63L4 | 133 | |
| | 5.0 | 435 | 262 | 10300 | 1.35 | TFF 58 / TRF38 | MY 63L4 | 133 | |
| | 5.8 | 370 | 226 | 10700 | 1.60 | | | | |
| | 6.5 | 325 | 200 | 11000 | 1.85 | | | | |
| | 7.7 | 275 | 170 | 11300 | 2.2 | | | | |
| | 5.2 | 405 | 249 | 5880 | 1.00 | TFA 48 / TRF18 | MY 63L4 | 133 | |
| | 6.0 | 360 | 218 | 6470 | 1.10 | TFAF 48 / TRF18 | MY 63L4 | 133 | |
| | 6.7 | 315 | 193 | 6920 | 1.25 | TF 48 / TRF18 | MY 63L4 | 133 | |
| | 7.5 | 285 | 175 | 7180 | 1.40 | TFF 48 / TRF18 | MY 63L4 | 133 | |
| | 5.1 | 415 | 253 | 4980 | 0.95 | TFA 48 / TRF18 | MY 63L4 | 133 | |
| | 6.0 | 365 | 217 | 6380 | 1.10 | TFAF 48 / TRF18 | MY 63L4 | 133 | |
| | 6.9 | 320 | 190 | 6900 | 1.25 | TF 48 / TRF18 | MY 63L4 | 133 | |
| | 7.3 | 295 | 178 | 7090 | 1.35 | TFF 48 / TRF18 | MY 63L4 | 133 | |
| | 8.7 | 250 | 149 | 7480 | 1.60 | | | | |
| | 9.9 | 215 | 131 | 7670 | 1.85 | | | | |
| | 8.9 | 245 | 145 | 3420 | 0.80 | TFA 38 / TRF18 | MY 63L4 | 133 | |
| | 10 | 215 | 129 | 4040 | 0.90 | TFAF 38 / TRF18 | MY 63L4 | 133 | |
| | 11 | 198 | 118 | 4320 | 1.00 | TF 38 / TRF18 | MY 63L4 | 133 | |
| | 13 | 164 | 98 | 4740 | 1.20 | TFF 38 / TRF18 | MY 63L4 | 133 | |
| | 15 | 144 | 87 | 4940 | 1.40 | | | | |
| | 3.1 | 765 | 281.71 | 19100 | 1.95 | TFA 78 | MY 71D6 | 111 | |
| | 3.4 | 715 | 262.93 | 19200 | 2.1 | TFAF 78 | MY 71D6 | 110 | |
| | 3.9 | 615 | 225.79 | 19500 | 2.5 | TF 78 | MY 71D6 | 109 | |
| | 4.4 | 540 | 198.31 | 19600 | 2.8 | TFF 78 | MY 71D6 | 110 | |
| | 4.7 | 510 | 188.40 | 19700 | 2.9 | | | | |
| | 3.8 | 620 | 228.99 | 11800 | 1.30 | TFA 68 | MY 71D6 | 107 | |
| | 4.5 | 530 | 195.39 | 12300 | 1.55 | TFAF 68 | MY 71D6 | 106 | |
| 5.2 | 465 | 170.85 | 12600 | 1.75 | TF 68 | MY 71D6 | 105 | | |
| 5.4 | 440 | 162.31 | 12700 | 1.85 | TFF 68 | MY 71D6 | 106 | | |
| 6.2 | 385 | 142.40 | 12900 | 2.1 | | | | | |
| 5.7 | 420 | 228.99 | 12700 | 1.95 | TFA 68 | MY 63L4 | 107 | | |
| 6.7 | 360 | 195.39 | 13000 | 2.3 | TFAF 68 | MY 63L4 | 106 | | |
| 7.6 | 315 | 170.85 | 13000 | 2.6 | TF 68 | MY 63L4 | 105 | | |
| 8.0 | 300 | 162.31 | 13000 | 2.8 | TFF 68 | MY 63L4 | 106 | | |
| 9.1 | 260 | 142.40 | 13000 | 3.1 | | | | | |


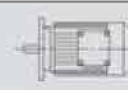
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{R2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|------|
| 0.25 | 4.4 | 540 | 199.70 | 9630 | 1.10 | TFA 58 | MY 71D6 | 103 |
| | 4.8 | 500 | 183.60 | 9940 | 1.20 | TFAF 58 | MY 71D6 | 102 |
| | 5.6 | 425 | 157.09 | 10400 | 1.40 | TF 58 | MY 71D6 | 101 |
| | 6.5 | 370 | 136.16 | 10800 | 1.60 | TFF 58 | MY 71D6 | 102 |
| | 6.9 | 345 | 127.27 | 10900 | 1.75 | | | |
| | 8.0 | 300 | 110.01 | 11100 | 2.0 | | | |
| | 6.5 | 365 | 199.70 | 10800 | 1.65 | TFA 58 | MY 63L4 | 103 |
| | 7.1 | 335 | 183.60 | 10900 | 1.80 | TFAF 58 | MY 63L4 | 102 |
| | 8.3 | 290 | 157.09 | 11200 | 2.1 | TF 58 | MY 63L4 | 101 |
| | 9.6 | 250 | 136.16 | 11400 | 2.4 | TFF 58 | MY 63L4 | 102 |
| | 10 | 235 | 127.27 | 11500 | 2.6 | | | |
| | 12 | 200 | 110.01 | 11500 | 3.0 | | | |
| | 5.9 | 405 | 150.06 | 5750 | 1.00 | TFA 48 | MY 71D6 | 99 |
| | 6.8 | 355 | 130.07 | 6530 | 1.15 | TFAF 48 | MY 71D6 | 98 |
| | 7.2 | 330 | 121.57 | 6770 | 1.20 | TF 48 | MY 71D6 | 97 |
| | 8.4 | 285 | 105.09 | 7190 | 1.40 | TFF 48 | MY 71D6 | 98 |
| | 6.8 | 350 | 190.76 | 6550 | 1.15 | TFA 48 | MY 63L4 | 99 |
| | 7.4 | 320 | 175.38 | 6850 | 1.25 | TFAF 48 | MY 63L4 | 98 |
| | 8.7 | 275 | 150.06 | 7270 | 1.45 | TF 48 | MY 63L4 | 97 |
| | 10 | 240 | 130.07 | 7540 | 1.65 | TFF 48 | MY 63L4 | 98 |
| | 11 | 225 | 121.57 | 7640 | 1.80 | | | |
| | 12 | 193 | 105.09 | 7810 | 2.1 | | | |
| | 15 | 164 | 89.29 | 7950 | 2.4 | | | |
| | 10 | 235 | 128.51 | 3690 | 0.85 | TFA 38 | MY 63L4 | 95 |
| | 11 | 215 | 117.88 | 4040 | 0.90 | TFAF 38 | MY 63L4 | 94 |
| | 13 | 184 | 100.36 | 4500 | 1.10 | TF 38 | MY 63L4 | 93 |
| | 15 | 159 | 86.53 | 4790 | 1.25 | TFF 38 | MY 63L4 | 94 |
| | 16 | 148 | 80.65 | 4900 | 1.35 | | | |
| | 18 | 130 | 70.50 | 5060 | 1.55 | | | |
| | 20 | 121 | 66.09 | 5120 | 1.65 | | | |
| | 22 | 107 | 58.32 | 5210 | 1.85 | | | |
| | 24 | 100 | 54.54 | 5260 | 2.0 | | | |
| | 25 | 95 | 51.70 | 5280 | 2.1 | | | |
| | 28 | 86 | 47.02 | 5330 | 2.3 | | | |
| | 30 | 81 | 43.83 | 5360 | 2.5 | | | |
| | 34 | 70 | 38.31 | 5400 | 2.8 | | | |
| | 36 | 66 | 35.91 | 5420 | 3.0 | | | |
| | 41 | 58 | 31.69 | 5450 | 3.4 | | | |
| | 17 | 142 | 77.21 | 4500 | 0.90 | TFA 28 | MY 63L4 | 91 |
| | 18 | 133 | 72.37 | 4500 | 1.00 | TFAF 28 | MY 63L4 | 90 |
| | 20 | 117 | 63.86 | 4500 | 1.10 | TF 28 | MY 63L4 | 89 |
| | 23 | 104 | 56.62 | 4500 | 1.25 | TFF 28 | MY 63L4 | 90 |
| | 26 | 92 | 50.19 | 4440 | 1.40 | | | |
| | 28 | 86 | 46.78 | 4370 | 1.50 | | | |
| | 32 | 75 | 40.89 | 4240 | 1.75 | | | |
| 34 | 70 | 38.33 | 4180 | 1.85 | | | | |
| 38 | 62 | 33.83 | 4060 | 2.1 | | | | |
| 44 | 54 | 29.56 | 3930 | 2.4 | TFA 28 | MY 63L4 | 91 | |
| 48 | 50 | 27.18 | 3840 | 2.6 | TFAF 28 | MY 63L4 | 90 | |
| 56 | 43 | 23.25 | 3690 | 3.0 | TF 28 | MY 63L4 | 89 | |
| 65 | 37 | 20.15 | 3550 | 3.5 | TFF 28 | MY 63L4 | 90 | |
| 69 | 35 | 18.84 | 3490 | 3.8 | | | | |
| 80 | 30 | 16.28 | 3350 | 4.4 | | | | |
| 94 | 25 | 13.84 | 3200 | 5.1 | | | | |
| 105 | 23 | 12.35 | 3090 | 5.7 | | | | |
| 123 | 19 | 10.55 | 2950 | 6.7 | | | | |


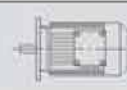
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | fs |  |  | Page | |
|------------------|------------------|------------------|-------|---------------|-------|--|---|---------|-----|
| 0.25 | 132 | 18 | 9.88 | 2900 | 7.2 | TFA 28 | MY 63L4 | 91 | |
| | 138 | 17 | 9.40 | 2840 | 7.5 | TFAF 28 | MY 63L4 | 90 | |
| | 160 | 15 | 8.13 | 2720 | 8.3 | TF 28 | MY 63L4 | 89 | |
| | 188 | 13 | 6.91 | 2590 | 9.0 | TFF 28 | MY 63L4 | 90 | |
| | 211 | 11 | 6.17 | 2500 | 9.7 | | | | |
| | 247 | 9.7 | 5.27 | 2380 | 10 | | | | |
| | 264 | 9.1 | 4.93 | 2340 | 11 | | | | |
| | 313 | 7.6 | 4.16 | 2220 | 11 | | | | |
| | 327 | 7.3 | 8.13 | 2190 | 17 | TFA 28 | MY 63M2 | 91 | |
| | 385 | 6.2 | 6.91 | 2080 | 18 | TFAF 28 | MY 63M2 | 90 | |
| | 431 | 5.5 | 6.17 | 2000 | 20 | TF 28 | MY 63M2 | 89 | |
| | 505 | 4.7 | 5.27 | 1910 | 21 | TFF 28 | MY 63M2 | 90 | |
| | 539 | 4.4 | 4.93 | 1870 | 22 | | | | |
| | 640 | 3.7 | 4.16 | 1770 | 24 | | | | |
| | 0.37 | 0.21 | 15000 | 6715 | 84600 | 0.80 | TFA 128 / TRF78 | MY 71D4 | 133 |
| | | 0.23 | 13200 | 5925 | 88100 | 0.90 | TFAF 128 / TRF78 | MY 71D4 | 133 |
| 0.27 | | 11400 | 5153 | 90000 | 1.05 | TF 128 / TRF78 | MY 71D4 | 133 | |
| 0.30 | | 9930 | 4533 | 90000 | 1.20 | TFF 128 / TRF78 | MY 71D4 | 133 | |
| 0.35 | | 8690 | 3926 | 90000 | 1.40 | | | | |
| 0.40 | | 7570 | 3454 | 90000 | 1.60 | | | | |
| 0.46 | | 6610 | 3031 | 90000 | 1.80 | | | | |
| 0.45 | | 6850 | 3037 | 52000 | 1.10 | TFA 108 / TRF78 | MY 71D4 | 133 | |
| 0.50 | | 6220 | 2756 | 53500 | 1.25 | TFAF 108 / TRF78 | MY 71D4 | 133 | |
| 0.58 | | 5350 | 2369 | 55500 | 1.45 | TF 108 / TRF78 | MY 71D4 | 133 | |
| 0.67 | | 4670 | 2068 | 57000 | 1.65 | TFF 108 / TRF78 | MY 71D4 | 133 | |
| 0.86 | | 3580 | 1597 | 59300 | 2.2 | | | | |
| 0.70 | | 4540 | 1970 | 29200 | 0.95 | TFA 98 / TRF58 | MY 71D4 | 133 | |
| 0.80 | | 4000 | 1722 | 30800 | 1.10 | TFAF 98 / TRF58 | MY 71D4 | 133 | |
| 0.90 | | 3550 | 1527 | 32000 | 1.20 | TF 98 / TRF58 | MY 71D4 | 133 | |
| 1.0 | | 3000 | 1327 | 33300 | 1.45 | TFF 98 / TRF58 | MY 71D4 | 133 | |
| 1.2 | | 2720 | 1171 | 33900 | 1.60 | | | | |
| 1.4 | | 2370 | 1022 | 34700 | 1.80 | | | | |
| 1.5 | | 2000 | 898 | 35400 | 2.1 | | | | |
| 1.1 | | 2940 | 1300 | 22000 | 1.00 | TFA 88 / TRF58 | MY 71D4 | 133 | |
| 1.2 | | 2620 | 1148 | 24400 | 1.15 | TFAF 88 / TRF58 | MY 71D4 | 133 | |
| 1.4 | | 2280 | 1010 | 25600 | 1.30 | TF 88 / TRF58 | MY 71D4 | 133 | |
| 1.6 | | 2020 | 887 | 26400 | 1.50 | TFF 88 / TRF58 | MY 71D4 | 133 | |
| 1.8 | | 1760 | 780 | 27100 | 1.70 | | | | |
| 2.0 | | 1500 | 674 | 27800 | 2.0 | | | | |
| 2.3 | | 1380 | 609 | 28100 | 2.2 | | | | |
| 2.7 | | 1160 | 515 | 28600 | 2.6 | | | | |
| 3.1 | | 1020 | 452 | 28900 | 2.9 | | | | |
| 1.7 | | 1850 | 810 | 11300 | 0.80 | TFA 78 / TRF38 | MY 71D4 | 133 | |
| 1.9 | | 1620 | 710 | 14900 | 0.95 | TFAF 78 / TRF38 | MY 71D4 | 133 | |
| 2.2 | | 1420 | 615 | 16200 | 1.05 | TF 78 / TRF38 | MY 71D4 | 133 | |
| 2.6 | | 1240 | 538 | 17200 | 1.20 | TFF 78 / TRF38 | MY 71D4 | 133 | |
| 2.9 | | 1110 | 480 | 17900 | 1.35 | | | | |
| 3.4 | | 940 | 413 | 18500 | 1.60 | | | | |
| 3.8 | | 840 | 367 | 18900 | 1.80 | | | | |
| 4.3 | | 750 | 323 | 19100 | 2.0 | | | | |
| 3.6 | | 890 | 384 | 9670 | 0.95 | TFA 68 / TRF38 | MY 71D4 | 133 | |
| 4.1 | | 785 | 338 | 10600 | 1.05 | TFAF 68 / TRF38 | MY 71D4 | 133 | |
| 4.5 | | 705 | 305 | 11200 | 1.15 | TF 68 / TRF38 | MY 71D4 | 133 | |
| 5.4 | | 590 | 257 | 11900 | 1.40 | TFF 68 / TRF38 | MY 71D4 | 133 | |
| 6.0 | | 525 | 231 | 12300 | 1.55 | | | | |


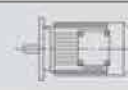
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|------|
| 0.37 | 5.4 | 585 | 255 | 9330 | 1.05 | TFA 58 / TRF38 | MY 71D4 | 133 |
| | 6.9 | 455 | 201 | 10200 | 1.30 | TFAF 58 / TRF38 | MY 71D4 | 133 |
| | 7.6 | 415 | 181 | 10500 | 1.45 | TF 58 / TRF38 | MY 71D4 | 133 |
| | | | | | | TFF 58 / TRF38 | MY 71D4 | 133 |
| | 5.3 | 620 | 262 | 9070 | 0.95 | TFA 58 / TRF38 | MY 71D4 | 133 |
| | 6.1 | 525 | 226 | 9740 | 1.15 | TFAF 58 / TRF38 | MY 71D4 | 133 |
| | 6.9 | 465 | 200 | 10200 | 1.30 | TF 58 / TRF38 | MY 71D4 | 133 |
| | 8.1 | 395 | 170 | 10600 | 1.50 | TFF 58 / TRF38 | MY 71D4 | 133 |
| | 9.1 | 350 | 152 | 10900 | 1.70 | | | |
| | 10 | 310 | 134 | 11100 | 1.95 | | | |
| | 7.9 | 405 | 175 | 5860 | 1.00 | TFA 48 / TRF18 | MY 71D4 | 133 |
| | 9.4 | 340 | 147 | 6660 | 1.15 | TFAF 48 / TRF18 | MY 71D4 | 133 |
| | 11 | 300 | 130 | 7050 | 1.35 | TF 48 / TRF18 | MY 71D4 | 133 |
| | | | | | | TFF 48 / TRF18 | MY 71D4 | 133 |
| | 2.5 | 1410 | 270.68 | 28100 | 2.1 | TFA 88 | MY 90S8 | 115 |
| | 2.7 | 1330 | 255.37 | 28200 | 2.3 | TFAF 88 | MY 90S8 | 114 |
| | 3.0 | 1190 | 228.93 | 28600 | 2.5 | TF 88 | MY 90S8 | 113 |
| | 3.5 | 1020 | 197.20 | 28900 | 2.9 | TFF 88 | MY 90S8 | 114 |
| | 3.3 | 1060 | 270.68 | 28800 | 2.8 | TFA 88 | MY 80K6 | 115 |
| | 3.5 | 1000 | 255.37 | 29000 | 3.0 | TFAF 88 | MY 80K6 | 114 |
| | 3.9 | 900 | 228.93 | 29200 | 3.3 | TF 88 | MY 80K6 | 113 |
| | | | | | | TFF 88 | MY 80K6 | 114 |
| | 4.0 | 890 | 225.79 | 18700 | 1.70 | TFA 78 | MY 80K6 | 111 |
| | 4.5 | 780 | 198.31 | 19100 | 1.95 | TFAF 78 | MY 80K6 | 110 |
| | 4.8 | 740 | 188.40 | 19200 | 2.0 | TF 78 | MY 80K6 | 109 |
| | 5.4 | 655 | 166.47 | 19400 | 2.3 | TFF 78 | MY 80K6 | 110 |
| | 6.3 | 560 | 142.27 | 19600 | 2.7 | | | |
| | 4.9 | 720 | 281.71 | 19200 | 2.1 | TFA 78 | MY 71D4 | 111 |
| | 5.2 | 675 | 262.93 | 19300 | 2.2 | TFAF 78 | MY 71D4 | 110 |
| | 6.1 | 580 | 225.79 | 19500 | 2.6 | TF 78 | MY 71D4 | 109 |
| | 7.0 | 510 | 198.31 | 19700 | 3.0 | TFF 78 | MY 71D4 | 110 |
| | 4.6 | 765 | 195.39 | 10800 | 1.05 | TFA 68 | MY 80K6 | 107 |
| | 5.3 | 670 | 170.85 | 11500 | 1.20 | TFAF 68 | MY 80K6 | 106 |
| | 5.5 | 635 | 162.31 | 11700 | 1.30 | TF 68 | MY 80K6 | 105 |
| | 6.3 | 560 | 142.40 | 12100 | 1.45 | TFF 68 | MY 80K6 | 106 |
| | 7.5 | 475 | 120.79 | 12500 | 1.75 | | | |
| | 6.0 | 585 | 228.99 | 12000 | 1.40 | TFA 68 | MY 71D4 | 107 |
| | 7.1 | 500 | 195.39 | 12400 | 1.65 | TFAF 68 | MY 71D4 | 106 |
| | 8.1 | 435 | 170.85 | 12700 | 1.85 | TF 68 | MY 71D4 | 105 |
| | 8.5 | 415 | 162.31 | 12800 | 1.95 | TFF 68 | MY 71D4 | 106 |
| | 9.7 | 365 | 142.40 | 12900 | 2.3 | | | |
| | 11 | 310 | 120.79 | 13000 | 2.7 | | | |
| | 5.7 | 615 | 157.09 | 9070 | 0.95 | TFA 58 | MY 80K6 | 103 |
| | 6.6 | 535 | 136.16 | 9680 | 1.10 | TFAF 58 | MY 80K6 | 102 |
| 7.1 | 500 | 127.27 | 9930 | 1.20 | TF 58 | MY 80K6 | 101 | |
| 8.2 | 430 | 110.01 | 10400 | 1.40 | TFF 58 | MY 80K6 | 102 | |
| 6.9 | 510 | 199.70 | 9850 | 1.15 | TFA 58 | MY 71D4 | 103 | |
| 7.5 | 470 | 183.60 | 10100 | 1.30 | TFAF 58 | MY 71D4 | 102 | |
| 8.8 | 400 | 157.09 | 10600 | 1.50 | TF 58 | MY 71D4 | 101 | |
| 10 | 350 | 136.16 | 10900 | 1.70 | TFF 58 | MY 71D4 | 102 | |
| 11 | 325 | 127.27 | 11000 | 1.85 | | | | |
| 13 | 280 | 110.01 | 11200 | 2.1 | | | | |
| 15 | 240 | 93.47 | 11500 | 2.5 | | | | |
| 17 | 215 | 83.46 | 11500 | 2.8 | | | | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|------|
| 0.37 | 9.2 | 365 | 150.06 | 6140 | 1.05 | TFA 48 | MY 71D4 | 99 |
| | 11 | 335 | 130.07 | 6740 | 1.20 | TFAF 48 | MY 71D4 | 98 |
| | 13 | 270 | 105.09 | 7320 | 1.50 | TF 48 | MY 71D4 | 97 |
| | 15 | 230 | 89.29 | 7600 | 1.75 | TFF 48 | MY 71D4 | 98 |
| | 17 | 205 | 79.72 | 7750 | 1.95 | | | |
| | 20 | 174 | 68.09 | 7900 | 2.3 | | | |
| | 21 | 167 | 65.36 | 7930 | 2.4 | | | |
| | 16 | 220 | 86.53 | 3960 | 0.90 | TFA 38 | MY 71D4 | 95 |
| | 17 | 205 | 80.65 | 4200 | 0.95 | TFAF 38 | MY 71D4 | 94 |
| | 20 | 181 | 70.50 | 4550 | 1.10 | TF 38 | MY 71D4 | 93 |
| | 21 | 169 | 66.09 | 4680 | 1.20 | TFF 38 | MY 71D4 | 94 |
| | 24 | 149 | 58.32 | 4890 | 1.35 | | | |
| | 25 | 140 | 54.54 | 4970 | 1.45 | | | |
| | 27 | 132 | 51.70 | 5030 | 1.50 | | | |
| | 29 | 120 | 47.02 | 5120 | 1.65 | | | |
| | 31 | 112 | 43.83 | 5180 | 1.80 | | | |
| | 36 | 98 | 38.31 | 5270 | 2.0 | | | |
| | 38 | 92 | 35.91 | 5300 | 2.2 | | | |
| | 44 | 81 | 31.69 | 5300 | 2.5 | | | |
| | 49 | 72 | 28.09 | 5140 | 2.8 | | | |
| | 58 | 61 | 23.88 | 4930 | 3.3 | | | |
| | 24 | 145 | 56.62 | 4080 | 0.90 | TFA 28 | MY 71D4 | 91 |
| | 28 | 129 | 50.19 | 4010 | 1.00 | TFAF 28 | MY 71D4 | 90 |
| | 30 | 120 | 46.78 | 3970 | 1.10 | TF 28 | MY 71D4 | 89 |
| | 34 | 105 | 40.89 | 3880 | 1.25 | TFF 28 | MY 71D4 | 90 |
| | 36 | 98 | 38.33 | 3840 | 1.35 | | | |
| | 41 | 87 | 33.83 | 3750 | 1.50 | | | |
| | 47 | 76 | 29.56 | 3650 | 1.70 | TFA 28 | MY 71D4 | 91 |
| | 51 | 70 | 27.18 | 3580 | 1.85 | TFAF 28 | MY 71D4 | 90 |
| | 59 | 60 | 23.25 | 3460 | 2.2 | TF 28 | MY 71D4 | 89 |
| | 68 | 52 | 20.15 | 3340 | 2.5 | TFF 28 | MY 71D4 | 90 |
| | 73 | 48 | 18.84 | 3290 | 2.7 | | | |
| | 85 | 42 | 16.28 | 3170 | 3.1 | | | |
| | 100 | 35 | 13.84 | 3040 | 3.7 | | | |
| | 112 | 32 | 12.35 | 2950 | 4.1 | | | |
| | 131 | 27 | 10.55 | 2820 | 4.8 | | | |
| | 140 | 25 | 9.88 | 2770 | 5.1 | | | |
| | 147 | 24 | 9.40 | 2710 | 5.4 | | | |
| | 170 | 21 | 8.13 | 2600 | 5.9 | | | |
| | 200 | 18 | 6.91 | 2490 | 6.4 | | | |
| | 224 | 16 | 6.17 | 2410 | 6.9 | | | |
| | 262 | 14 | 5.27 | 2300 | 7.4 | | | |
| 280 | 13 | 4.93 | 2250 | 7.6 | | | | |
| 332 | 11 | 4.16 | 2140 | 8.2 | | | | |
| 326 | 11 | 8.13 | 2150 | 11 | TFA 28 | MY 63L2 | 91 | |
| 384 | 9.2 | 6.91 | 2050 | 12 | TFAF 28 | MY 63L2 | 90 | |
| 430 | 8.2 | 6.17 | 1980 | 13 | TF 28 | MY 63L2 | 89 | |
| 503 | 7.0 | 5.27 | 1890 | 14 | TFF 28 | MY 63L2 | 90 | |
| 537 | 6.6 | 4.93 | 1850 | 15 | | | | |
| 638 | 5.5 | 4.16 | 1750 | 16 | | | | |
| 0.55 | 0.22 | 20500 | 6295 | 91800 | 0.90 | TFA 158 / TRF98 | MY 80K4 | 133 |
| | 0.25 | 17200 | 5404 | 102700 | 1.05 | TFAF 158 / TRF98 | MY 80K4 | 133 |
| | 0.49 | 8820 | 2780 | 118800 | 2.0 | TF 158 / TRF98 | MY 80K4 | 133 |
| | | | | | | TFF 158 / TRF98 | MY 80K4 | 133 |


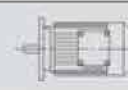
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|-------|-----------------|----------------|--|---|---------|-----|
| 0.55 | 0.56 | 7800 | 2427 | 120000 | 2.3 | TFA 158 / TRF98 | MY 80K4 | 133 | |
| | 0.81 | 5530 | 1674 | 120000 | 3.3 | TFAF 158 / TRF98 | MY 80K4 | 133 | |
| | 1.0 | 4270 | 1308 | 120000 | 4.2 | TF 158 / TRF98 | MY 80K4 | 133 | |
| | 1.2 | 3750 | 1169 | 120000 | 4.8 | TFF 158 / TRF98 | MY 80K4 | 133 | |
| | 0.35 | 13400 | 3926 | 87700 | 0.90 | TFA 128 / TRF78 | MY 80K4 | 133 | |
| | 0.39 | 11800 | 3454 | 90000 | 1.00 | TFAF 128 / TRF78 | MY 80K4 | 133 | |
| | 0.45 | 10300 | 3031 | 90000 | 1.15 | TF 128 / TRF78 | MY 80K4 | 133 | |
| | | | | | | | TFF 128 / TRF78 | MY 80K4 | 133 |
| | 0.57 | 8250 | 2369 | 48300 | 0.95 | TFA 108 / TRF78 | MY 80K4 | 133 | |
| | 0.66 | 7200 | 2068 | 51100 | 1.05 | TFAF 108 / TRF78 | MY 80K4 | 133 | |
| | 0.74 | 6190 | 1826 | 53600 | 1.25 | TF 108 / TRF78 | MY 80K4 | 133 | |
| | 0.85 | 5540 | 1597 | 55100 | 1.40 | TFF 108 / TRF78 | MY 80K4 | 133 | |
| | 0.97 | 4830 | 1401 | 56700 | 1.60 | | | | |
| | 1.1 | 4220 | 1243 | 58000 | 1.80 | | | | |
| | 1.2 | 3770 | 1087 | 58900 | 2.0 | | | | |
| | 1.4 | 3220 | 950 | 60000 | 2.4 | | | | |
| | 1.6 | 2800 | 834 | 60800 | 2.7 | | | | |
| | 2.1 | 2180 | 640 | 61900 | 3.5 | | | | |
| | 1.0 | 4630 | 1327 | 28900 | 0.95 | TFA 98 / TRF58 | MY 80K4 | 133 | |
| | 1.2 | 4150 | 1171 | 30300 | 1.05 | TFAF 98 / TRF58 | MY 80K4 | 133 | |
| | 1.3 | 3630 | 1022 | 31800 | 1.20 | TF 98 / TRF58 | MY 80K4 | 133 | |
| | 1.5 | 3110 | 898 | 33100 | 1.40 | TFF 98 / TRF58 | MY 80K4 | 133 | |
| | 1.7 | 2750 | 784 | 33900 | 1.55 | | | | |
| | 2.0 | 2380 | 690 | 34600 | 1.80 | | | | |
| | 2.2 | 2100 | 605 | 35200 | 2.1 | | | | |
| | 2.6 | 1830 | 529 | 35700 | 2.4 | | | | |
| | 2.9 | 1610 | 467 | 36100 | 2.7 | | | | |
| | 3.4 | 1390 | 406 | 36500 | 3.1 | | | | |
| | 3.7 | 1240 | 363 | 36700 | 3.5 | | | | |
| | 1.5 | 3110 | 887 | 15200 | 0.95 | TFA 88 / TRF58 | MY 80K4 | 133 | |
| | 1.7 | 2720 | 780 | 24000 | 1.10 | TFAF 88 / TRF58 | MY 80K4 | 133 | |
| | 2.0 | 2330 | 674 | 25400 | 1.30 | TF 88 / TRF58 | MY 80K4 | 133 | |
| | 2.2 | 2120 | 609 | 26100 | 1.40 | TFF 88 / TRF58 | MY 80K4 | 133 | |
| | 2.6 | 1790 | 515 | 27000 | 1.70 | | | | |
| | 3.0 | 1580 | 452 | 27600 | 1.90 | | | | |
| | 3.9 | 1180 | 345 | 28600 | 2.5 | | | | |
| | 2.8 | 1690 | 480 | 14300 | 0.90 | TFA 78 / TRF38 | MY 80K4 | 133 | |
| | 3.3 | 1450 | 413 | 16100 | 1.05 | TFAF 78 / TRF38 | MY 80K4 | 133 | |
| | 3.7 | 1290 | 367 | 17000 | 1.15 | TF 78 / TRF38 | MY 80K4 | 133 | |
| | 4.2 | 1150 | 323 | 17700 | 1.30 | TFF 78 / TRF38 | MY 80K4 | 133 | |
| | 5.3 | 910 | 257 | 9470 | 0.90 | TFA 68 / TRF38 | MY 80K4 | 133 | |
| | 5.9 | 810 | 231 | 10400 | 1.00 | TFAF 68 / TRF38 | MY 80K4 | 133 | |
| 6.6 | 720 | 205 | 11100 | 1.15 | TF 68 / TRF38 | MY 80K4 | 133 | | |
| 7.8 | 615 | 175 | 11800 | 1.35 | TFF 68 / TRF38 | MY 80K4 | 133 | | |
| 2.5 | 2140 | 276.77 | 35100 | 2.0 | TFA 98 | MY 90L8 | 119 | | |
| 2.7 | 1960 | 253.41 | 35500 | 2.2 | TFAF 98 | MY 90L8 | 118 | | |
| 3.0 | 1730 | 223.88 | 35900 | 2.5 | TF 98 | MY 90L8 | 117 | | |
| | | | | | TFF 98 | MY 90L8 | 118 | | |
| 2.5 | 2090 | 270.68 | 26200 | 1.45 | TFA 88 | MY 90L8 | 115 | | |
| 2.7 | 1970 | 255.37 | 26500 | 1.50 | TFAF 88 | MY 90L8 | 114 | | |
| 3.0 | 1770 | 228.93 | 27100 | 1.70 | TF 88 | MY 90L8 | 113 | | |
| 3.5 | 1520 | 197.20 | 27800 | 1.95 | TFF 88 | MY 90L8 | 114 | | |
| 3.3 | 1580 | 270.68 | 27600 | 1.90 | TFA 88 | MY 80N6 | 115 | | |
| 3.5 | 1490 | 255.37 | 27800 | 2.0 | TFAF 88 | MY 80N6 | 114 | | |
| 3.9 | 1340 | 228.93 | 28200 | 2.3 | TF 88 | MY 80N6 | 113 | | |
| 4.6 | 1150 | 197.20 | 28700 | 2.6 | TFF 88 | MY 80N6 | 114 | | |
| 5.0 | 1050 | 179.97 | 28900 | 2.9 | | | | | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | fs |  |  | Page |
|------------------|------------------|------------------|---------|---------------|---------|--|---|------|
| 0.55 | 4.0 | 1320 | 225.79 | 16800 | 1.15 | TFA 78 | MY 80N6 | 111 |
| | 4.5 | 1160 | 198.31 | 17600 | 1.30 | TFAF 78 | MY 80N6 | 110 |
| | 4.8 | 1100 | 188.40 | 17900 | 1.35 | TF 78 | MY 80N6 | 109 |
| | 5.4 | 970 | 166.47 | 18400 | 1.55 | TFF 78 | MY 80N6 | 110 |
| | 6.3 | 830 | 142.27 | 18900 | 1.80 | | | |
| | 6.9 | 760 | 130.42 | 19100 | 1.95 | | | |
| | 6.0 | 870 | 225.79 | 18800 | 1.70 | TFA 78 | MY 80K4 | 111 |
| | 6.9 | 765 | 198.31 | 19100 | 1.95 | TFAF 78 | MY 80K4 | 110 |
| | 7.2 | 730 | 188.40 | 19200 | 2.1 | TF 78 | MY 80K4 | 109 |
| | 8.2 | 645 | 166.47 | 19400 | 2.3 | TFF 78 | MY 80K4 | 110 |
| | 9.6 | 550 | 142.27 | 19600 | 2.7 | | | |
| | 10 | 505 | 130.42 | 19700 | 3.0 | | | |
| | 12 | 440 | 114.45 | 19800 | 3.4 | | | |
| | 13 | 420 | 108.46* | 19800 | 3.6 | | | |
| | 14 | 365 | 94.93 | 19900 | 4.1 | | | |
| | 7.0 | 755 | 195.39 | 10900 | 1.10 | TFA 68 | MY 80K4 | 107 |
| | 8.0 | 660 | 170.85 | 11500 | 1.25 | TFAF 68 | MY 80K4 | 106 |
| | 8.4 | 625 | 162.31 | 11700 | 1.30 | TF 68 | MY 80K4 | 105 |
| | 9.6 | 550 | 142.40 | 12200 | 1.50 | TFF 68 | MY 80K4 | 106 |
| | 11 | 465 | 120.79 | 12600 | 1.75 | | | |
| | 12 | 420 | 109.04 | 12700 | 1.95 | | | |
| | 14 | 370 | 95.94 | 12900 | 2.2 | | | |
| | 15 | 350 | 90.59 | 13000 | 2.3 | | | |
| | 17 | 310 | 79.76 | 13000 | 2.7 | | | |
| | 8.7 | 605 | 157.09 | 9150 | 1.00 | TFA 58 | MY 80K4 | 103 |
| | 10 | 525 | 136.16 | 9750 | 1.15 | TFAF 58 | MY 80K4 | 102 |
| | 11 | 490 | 127.27 | 9980 | 1.20 | TF 58 | MY 80K4 | 101 |
| | 12 | 425 | 110.01 | 10400 | 1.40 | TFF 58 | MY 80K4 | 102 |
| | 15 | 360 | 93.47 | 10800 | 1.65 | | | |
| | 16 | 320 | 83.46 | 11000 | 1.85 | | | |
| | 19 | 280 | 72.98 | 11200 | 2.1 | | | |
| | 20 | 265 | 68.22 | 11300 | 2.3 | | | |
| | 23 | 230 | 58.97 | 11500 | 2.6 | | | |
| | 13 | 405 | 105.09 | 5840 | 1.00 | TFA 48 | MY 80K4 | 99 |
| | 15 | 345 | 89.29 | 6620 | 1.15 | TFAF 48 | MY 80K4 | 98 |
| | 17 | 310 | 79.72 | 6990 | 1.30 | TF 48 | MY 80K4 | 97 |
| | 20 | 265 | 68.09 | 7370 | 1.50 | TFF 48 | MY 80K4 | 98 |
| | 21 | 250 | 65.36 | 7440 | 1.60 | | | |
| | 24 | 220 | 56.49 | 7670 | 1.85 | | | |
| | 28 | 185 | 48.00* | 7850 | 2.2 | | | |
| | 32 | 166 | 42.86 | 7940 | 2.4 | | | |
| | 23 | 225 | 58.32 | 3890 | 0.90 | TFA 38 | MY 80K4 | 95 |
| | 25 | 210 | 54.54 | 4140 | 0.95 | TFAF 38 | MY 80K4 | 94 |
| | 26 | 200 | 51.70 | 4300 | 1.00 | TF 38 | MY 80K4 | 93 |
| | 29 | 182 | 47.02 | 4540 | 1.10 | TFF 38 | MY 80K4 | 94 |
| 31 | 169 | 43.83 | 4680 | 1.20 | | | | |
| 36 | 148 | 38.31 | 4900 | 1.35 | | | | |
| 38 | 139 | 35.91 | 4980 | 1.45 | | | | |
| 43 | 122 | 31.69 | 4990 | 1.65 | | | | |
| 48 | 109 | 28.09 | 4870 | 1.85 | | | | |
| 57 | 92 | 23.88 | 4700 | 2.2 | | | | |
| 58 | 91 | 23.63 | 4690 | 2.2 | TFA 38 | MY 80K4 | 95 | |
| 66 | 79 | 20.57 | 4540 | 2.5 | TFAF 38 | MY 80K4 | 94 | |
| 71 | 74 | 19.27 | 4470 | 2.7 | TF 38 | MY 80K4 | 93 | |
| 80 | 66 | 17.03 | 4340 | 3.0 | TFF 38 | MY 80K4 | 94 | |
| 95 | 55 | 14.33 | 4150 | 3.6 | | | | |


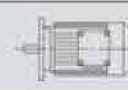
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | | | | | |
|------------------|------------------|------------------|-------|-----------------|-----------------|--|---|---------|-------|------|--|--|--|
| 0.55 | 35 | 150 | 77.21 | 3420 | 0.85 | TFA 28 | MY 71D2 | 91 | | | | | |
| | 37 | 141 | 72.37 | 3410 | 0.90 | TFAF 28 | MY 71D2 | 90 | | | | | |
| | 42 | 124 | 63.86 | 3360 | 1.05 | TF 28 | MY 71D2 | 89 | | | | | |
| | 48 | 110 | 56.62 | 3310 | 1.20 | TFF 28 | MY 71D2 | 90 | | | | | |
| | 54 | 98 | 50.19 | 3250 | 1.35 | | | | | | | | |
| | 58 | 90 | 23.25 | 3210 | 1.45 | TFA 28 | MY 80K4 | 91 | | | | | |
| | 67 | 78 | 20.15 | 3130 | 1.65 | TFAF 28 | MY 80K4 | 90 | | | | | |
| | 72 | 73 | 18.84 | 3090 | 1.80 | TF 28 | MY 80K4 | 89 | | | | | |
| | 84 | 63 | 16.28 | 3000 | 2.1 | TFF 28 | MY 80K4 | 90 | | | | | |
| | 98 | 53 | 13.84 | 2900 | 2.4 | | | | | | | | |
| | 110 | 48 | 12.35 | 2820 | 2.7 | | | | | | | | |
| | 129 | 41 | 10.55 | 2720 | 3.2 | | | | | | | | |
| | 138 | 38 | 9.88 | 2670 | 3.4 | | | | | | | | |
| | 145 | 36 | 9.40 | 2610 | 3.6 | | | | | | | | |
| | 167 | 31 | 8.13 | 2510 | 3.9 | | | | | | | | |
| | 197 | 27 | 6.91 | 2410 | 4.3 | | | | | | | | |
| | 221 | 24 | 6.17 | 2340 | 4.6 | | | | | | | | |
| | 258 | 20 | 5.27 | 2240 | 4.9 | | | | | | | | |
| | 276 | 19 | 4.93 | 2200 | 5.0 | | | | | | | | |
| | 327 | 16 | 4.16 | 2100 | 5.4 | | | | | | | | |
| | 332 | 16 | 8.13 | 2090 | 7.8 | TFA 28 | MY 71D2 | 91 | | | | | |
| | 391 | 13 | 6.91 | 2000 | 8.5 | TFAF 28 | MY 71D2 | 90 | | | | | |
| | 438 | 12 | 6.17 | 1930 | 9.1 | TF 28 | MY 71D2 | 89 | | | | | |
| | 513 | 10 | 5.27 | 1840 | 9.8 | TFF 28 | MY 71D2 | 90 | | | | | |
| | 547 | 9.6 | 4.93 | 1810 | 10 | | | | | | | | |
| | 650 | 8.1 | 4.16 | 1720 | 11 | | | | | | | | |
| | 0.75 | 0.50 | 12200 | 2780 | 113700 | 1.45 | TFA 158 / TRF98 | MY 80N4 | 133 | | | | |
| | | | | | | | TFAF 158 / TRF98 | MY 80N4 | 133 | | | | |
| TF 158 / TRF98 | | | | | | | MY 80N4 | 133 | | | | | |
| TFF 158 / TRF98 | | | | | | | MY 80N4 | 133 | | | | | |
| 0.57 | | 10800 | 2427 | 116000 | 1.65 | TFA 158 / TRF98 | MY 80N4 | 133 | | | | | |
| | | | | | | TFAF 158 / TRF98 | MY 80N4 | 133 | | | | | |
| | | | | | | TF 158 / TRF98 | MY 80N4 | 133 | | | | | |
| | | | | | | TFF 158 / TRF98 | MY 80N4 | 133 | | | | | |
| 0.82 | | 7630 | 1674 | 120000 | 2.4 | TFA 158 / TRF98 | MY 80N4 | 133 | | | | | |
| | | | | | | TFAF 158 / TRF98 | MY 80N4 | 133 | | | | | |
| 1.1 | | 5910 | 1308 | 120000 | 3.1 | TF 158 / TRF98 | MY 80N4 | 133 | | | | | |
| 1.2 | | 5210 | 1169 | 120000 | 3.5 | TFF 158 / TRF98 | MY 80N4 | 133 | | | | | |
| 0.46 | | 14000 | 3031 | 86500 | 0.85 | TFA 128 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TFAF 128 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TF 128 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TFF 128 / TRF78 | MY 80N4 | 133 | | | | | |
| 0.52 | | 12600 | 2672 | 89200 | 0.95 | TFA 128 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TFAF 128 / TRF78 | MY 80N4 | 133 | | | | | |
| 0.59 | | 11100 | 2357 | 90000 | 1.10 | TF 128 / TRF78 | MY 80N4 | 133 | | | | | |
| 0.68 | | 9540 | 2038 | 90000 | 1.25 | TFF 128 / TRF78 | MY 80N4 | 133 | | | | | |
| 0.77 | | 8310 | 1784 | 90000 | 1.45 | | | | | | | | |
| 0.86 | | 7450 | 1606 | 90000 | 1.60 | | | | | | | | |
| 0.76 | | 8470 | 1826 | 47600 | 0.90 | TFA 108 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TFAF 108 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TF 108 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | TFF 108 / TRF78 | MY 80N4 | 133 | | | | | |
| | | | | | | 0.86 | 7530 | 1597 | 50200 | 1.00 | | | |
| | | | | | | 0.98 | 6580 | 1401 | 52600 | 1.15 | | | |
| | | | | | | 1.1 | 5770 | 1243 | 54600 | 1.35 | | | |
| | | | | | | 1.3 | 5130 | 1087 | 56000 | 1.50 | | | |
| | | | | | | 1.4 | 4410 | 950 | 57600 | 1.75 | | | |
| | | | | | | 1.7 | 3840 | 834 | 58700 | 2.0 | | | |
| 2.2 | 2980 | 640 | 60400 | 2.6 | | | | | | | | | |
| | | | | | | | | | | | | | |
| 3.2 | 2030 | 436 | 62100 | 3.8 | | | | | | | | | |
| 1.4 | 4900 | 1022 | 18500 | 0.90 | TFA 98 / TRF58 | MY 80N4 | 133 | | | | | | |
| | | | | | TFAF 98 / TRF58 | MY 80N4 | 133 | | | | | | |
| | | | | | TF 98 / TRF58 | MY 80N4 | 133 | | | | | | |
| | | | | | TFF 98 / TRF58 | MY 80N4 | 133 | | | | | | |
| 1.5 | 4230 | 898 | 30100 | 1.00 | | | | | | | | | |
| 1.8 | 3730 | 784 | 31500 | 1.15 | | | | | | | | | |
| 2.0 | 3250 | 690 | 32700 | 1.30 | | | | | | | | | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|---------|-----------------|---------|--|---|---------|-----|
| 0.75 | 2.3 | 2860 | 605 | 33600 | 1.50 | TFA 98 / TRF58 | MY 80N4 | 133 | |
| | 2.6 | 2490 | 529 | 34400 | 1.75 | TFAF 98 / TRF58 | MY 80N4 | 133 | |
| | 3.0 | 2200 | 467 | 35000 | 1.95 | TF 98 / TRF58 | MY 80N4 | 133 | |
| | 3.4 | 1890 | 406 | 35600 | 2.3 | TFF 98 / TRF58 | MY 80N4 | 133 | |
| | 3.8 | 1700 | 363 | 35900 | 2.5 | | | | |
| | 2.0 | 3170 | 674 | 11300 | 0.95 | TFA 88 / TRF58 | MY 80N4 | 133 | |
| | 2.3 | 2880 | 609 | 23400 | 1.05 | TFAF 88 / TRF58 | MY 80N4 | 133 | |
| | 2.7 | 2430 | 515 | 25000 | 1.25 | TF 88 / TRF58 | MY 80N4 | 133 | |
| | 3.1 | 2140 | 452 | 26000 | 1.40 | TFF 88 / TRF58 | MY 80N4 | 133 | |
| | 4.0 | 1610 | 345 | 27500 | 1.85 | | | | |
| | 3.8 | 1750 | 367 | 13800 | 0.85 | TFA 78 / TRF38 | MY 80N4 | 133 | |
| | 4.3 | 1550 | 323 | 15400 | 0.95 | TFAF 78 / TRF38 | MY 80N4 | 133 | |
| | 4.9 | 1340 | 280 | 16700 | 1.10 | TF 78 / TRF38 | MY 80N4 | 133 | |
| | | | | | | | TFF 78 / TRF38 | MY 80N4 | 133 |
| | 2.7 | 2640 | 254.40* | 61100 | 2.9 | TFA 108 | MY 100M8 | 123 | |
| | | | | | | TFAF 108 | MY 100M8 | 122 | |
| | | | | | | TF 108 | MY 100M8 | 121 | |
| | | | | | | TFF 108 | MY 100M8 | 122 | |
| | 2.5 | 2870 | 276.77 | 33600 | 1.50 | TFA 98 | MY 100M8 | 119 | |
| | 2.7 | 2630 | 253.41 | 34100 | 1.65 | TFAF 98 | MY 100M8 | 118 | |
| | 3.1 | 2320 | 223.88 | 34800 | 1.85 | TF 98 | MY 100M8 | 117 | |
| | | | | | | TFF 98 | MY 100M8 | 118 | |
| | 3.2 | 2200 | 276.77 | 35000 | 1.95 | TFA 98 | MY 90S6 | 119 | |
| | 3.6 | 2020 | 253.41 | 35400 | 2.1 | TFAF 98 | MY 90S6 | 118 | |
| | 4.0 | 1780 | 223.88 | 35800 | 2.4 | TF 98 | MY 90S6 | 117 | |
| | | | | | | TFF 98 | MY 90S6 | 118 | |
| | 3.3 | 2150 | 270.68 | 26000 | 1.40 | TFA 88 | MY 90S6 | 115 | |
| | 3.5 | 2030 | 255.37 | 26300 | 1.50 | TFAF 88 | MY 90S6 | 114 | |
| | 3.9 | 1820 | 228.93 | 27000 | 1.65 | TF 88 | MY 90S6 | 113 | |
| | 4.6 | 1570 | 197.20 | 27600 | 1.90 | TFF 88 | MY 90S6 | 114 | |
| | 5.0 | 1430 | 179.97 | 28000 | 2.1 | | | | |
| | 5.6 | 1270 | 159.61 | 28400 | 2.4 | | | | |
| | 5.1 | 1400 | 270.68 | 28100 | 2.1 | TFA 88 | MY 80N4 | 115 | |
| | 5.4 | 1330 | 255.37 | 28200 | 2.3 | TFAF 88 | MY 80N4 | 114 | |
| | 6.0 | 1190 | 228.93 | 28600 | 2.5 | TF 88 | MY 80N4 | 113 | |
| | | | | | | TFF 88 | MY 80N4 | 114 | |
| | 4.5 | 1580 | 198.31 | 15200 | 0.95 | TFA 78 | MY 90S6 | 111 | |
| | 4.8 | 1500 | 188.40 | 15700 | 1.00 | TFAF 78 | MY 90S6 | 110 | |
| | 5.4 | 1320 | 166.47 | 16800 | 1.15 | TF 78 | MY 90S6 | 109 | |
| | 6.3 | 1130 | 142.27 | 17800 | 1.30 | TFF 78 | MY 90S6 | 110 | |
| | 6.9 | 1040 | 130.42 | 18200 | 1.45 | | | | |
| | 6.1 | 1170 | 225.79 | 17600 | 1.30 | TFA 78 | MY 80N4 | 111 | |
| | 7.0 | 1030 | 198.31 | 18200 | 1.45 | TFAF 78 | MY 80N4 | 110 | |
| | 7.3 | 980 | 188.40 | 18400 | 1.55 | TF 78 | MY 80N4 | 109 | |
| | | | | | | TFF 78 | MY 80N4 | 110 | |
| | 8.3 | 860 | 166.47 | 18800 | 1.75 | TFA 78 | MY 80N4 | 111 | |
| | 9.7 | 740 | 142.27 | 19200 | 2.0 | TFAF 78 | MY 80N4 | 110 | |
| 11 | 675 | 130.42 | 19300 | 2.2 | TF 78 | MY 80N4 | 109 | | |
| 12 | 595 | 114.45 | 19500 | 2.5 | TFF 78 | MY 80N4 | 110 | | |
| 13 | 565 | 108.46* | 19600 | 2.7 | | | | | |
| 8.1 | 890 | 170.85 | 9670 | 0.90 | TFA 68 | MY 80N4 | 107 | | |
| 8.5 | 840 | 162.31 | 10100 | 0.95 | TFAF 68 | MY 80N4 | 106 | | |
| 9.7 | 740 | 142.40 | 11000 | 1.10 | TF 68 | MY 80N4 | 105 | | |
| 11 | 625 | 120.79 | 11700 | 1.30 | TFF 68 | MY 80N4 | 106 | | |


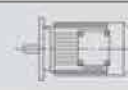
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|------|
| 0.75 | 13 | 565 | 109.04 | 12100 | 1.45 | TFA 68 | MY 80N4 | 107 |
| | 14 | 500 | 95.94 | 12400 | 1.65 | TFAF 68 | MY 80N4 | 106 |
| | 15 | 470 | 90.59 | 12500 | 1.75 | TF 68 | MY 80N4 | 105 |
| | 17 | 415 | 79.76 | 12800 | 2.0 | TFF 68 | MY 80N4 | 106 |
| | 20 | 350 | 67.65 | 13000 | 2.3 | | | |
| | 23 | 315 | 61.07 | 13000 | 2.6 | | | |
| | 11 | 660 | 127.27 | 5290 | 0.90 | TFA 58 | MY 80N4 | 103 |
| | 13 | 570 | 110.01 | 9420 | 1.05 | TFAF 58 | MY 80N4 | 102 |
| | 15 | 485 | 93.47 | 10000 | 1.25 | TF 58 | MY 80N4 | 101 |
| | 17 | 435 | 83.46 | 10400 | 1.40 | TFF 58 | MY 80N4 | 102 |
| | 19 | 380 | 72.98 | 10700 | 1.60 | | | |
| | 20 | 355 | 68.22 | 10800 | 1.70 | | | |
| | 23 | 305 | 58.97 | 11100 | 1.95 | | | |
| | 28 | 260 | 50.10 | 11300 | 2.3 | | | |
| | 31 | 230 | 44.73 | 11400 | 2.6 | | | |
| | 17 | 415 | 79.72 | 5060 | 0.95 | TFA 48 | MY 80N4 | 99 |
| | 20 | 355 | 68.09 | 6520 | 1.15 | TFAF 48 | MY 80N4 | 98 |
| | 21 | 340 | 65.36 | 6680 | 1.20 | TF 48 | MY 80N4 | 97 |
| | | | | | | TFF 48 | MY 80N4 | 98 |
| | 24 | 295 | 56.49 | 7120 | 1.35 | TFA 48 | MY 80N4 | 99 |
| | 29 | 250 | 48.00* | 7470 | 1.60 | TFAF 48 | MY 80N4 | 98 |
| | 32 | 220 | 42.86 | 7640 | 1.80 | TF 48 | MY 80N4 | 97 |
| | 38 | 190 | 36.61 | 7820 | 2.1 | TFF 48 | MY 80N4 | 98 |
| | 40 | 178 | 34.29 | 7850 | 2.3 | | | |
| | 48 | 150 | 28.88 | 7540 | 2.7 | | | |
| | 29 | 245 | 47.02 | 3530 | 0.80 | TFA 38 | MY 80N4 | 95 |
| | 31 | 230 | 43.83 | 3850 | 0.90 | TFAF 38 | MY 80N4 | 94 |
| | 36 | 199 | 38.31 | 4310 | 1.00 | TF 38 | MY 80N4 | 93 |
| | 38 | 186 | 35.91 | 4480 | 1.05 | TFF 38 | MY 80N4 | 94 |
| | 44 | 165 | 31.69 | 4620 | 1.20 | | | |
| | 49 | 146 | 28.09 | 4540 | 1.35 | | | |
| | 58 | 123 | 23.63 | 4400 | 1.65 | TFA 38 | MY 80N4 | 95 |
| | 67 | 107 | 20.57 | 4290 | 1.85 | TFAF 38 | MY 80N4 | 94 |
| | 72 | 100 | 19.27 | 4240 | 2.0 | TF 38 | MY 80N4 | 93 |
| | 81 | 88 | 17.03 | 4130 | 2.3 | TFF 38 | MY 80N4 | 94 |
| | 96 | 74 | 14.33 | 3970 | 2.7 | | | |
| | 107 | 67 | 12.87 | 3870 | 3.0 | | | |
| | 59 | 121 | 23.25 | 2920 | 1.10 | TFA 28 | MY 80N4 | 91 |
| | 68 | 105 | 20.15 | 2870 | 1.25 | TFAF 28 | MY 80N4 | 90 |
| | 73 | 98 | 18.84 | 2850 | 1.35 | TF 28 | MY 80N4 | 89 |
| | 85 | 85 | 16.28 | 2790 | 1.55 | TFF 28 | MY 80N4 | 90 |
| | 100 | 72 | 13.84 | 2720 | 1.80 | | | |
| | 112 | 64 | 12.35 | 2660 | 2.0 | | | |
| 131 | 55 | 10.55 | 2580 | 2.4 | | | | |
| 140 | 51 | 9.88 | 2540 | 2.5 | | | | |
| 147 | 49 | 9.40 | 2470 | 2.7 | | | | |
| 170 | 42 | 8.13 | 2390 | 2.9 | | | | |
| 200 | 36 | 6.91 | 2310 | 3.2 | | | | |
| 224 | 32 | 6.17 | 2250 | 3.4 | | | | |
| 262 | 27 | 5.27 | 2160 | 3.7 | | | | |
| 280 | 26 | 4.93 | 2130 | 3.8 | | | | |
| 332 | 22 | 4.16 | 2030 | 4.0 | | | | |
| 332 | 22 | 8.13 | 2030 | 5.7 | TFA 28 | MY 80K2 | 91 | |
| 391 | 18 | 6.91 | 1950 | 6.2 | TFAF 28 | MY 80K2 | 90 | |
| 438 | 16 | 6.17 | 1890 | 6.7 | TF 28 | MY 80K2 | 89 | |
| | | | | | TFF 28 | MY 80K2 | 90 | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|---------|--|---|------|
| 0.75 | 513 | 14 | 5.27 | 1810 | 7.1 | TFA 28 | MY 80K2 | 91 |
| | 547 | 13 | 4.93 | 1770 | 7.3 | TFAF 28 | MY 80K2 | 90 |
| | 650 | 11 | 4.16 | 1690 | 7.9 | TF 28 | MY 80K2 | 89 |
| | | | | | | TFF 28 | MY 80K2 | 90 |
| 1.1 | 0.50 | 18200 | 2780 | 99600 | 1.00 | TFA 158 / TRF98 | MY 90S4 | 133 |
| | | | | | | TFAF 158 / TRF98 | MY 90S4 | 133 |
| | | | | | | TF 158 / TRF98 | MY 90S4 | 133 |
| | | | | | | TFF 158 / TRF98 | MY 90S4 | 133 |
| | 0.58 | 16100 | 2427 | 105500 | 1.10 | TFA 158 / TRF98 | MY 90S4 | 133 |
| | 0.64 | 14400 | 2185 | 109500 | 1.25 | TFAF 158 / TRF98 | MY 90S4 | 133 |
| | 0.72 | 12800 | 1944 | 112700 | 1.40 | TF 158 / TRF98 | MY 90S4 | 133 |
| | 0.84 | 11300 | 1674 | 115300 | 1.60 | TFF 158 / TRF98 | MY 90S4 | 133 |
| | 1.1 | 8750 | 1308 | 118900 | 2.1 | | | |
| | 1.2 | 7750 | 1169 | 120000 | 2.3 | | | |
| | 1.5 | 6200 | 953 | 120000 | 2.9 | | | |
| | 1.7 | 5420 | 845 | 120000 | 3.3 | | | |
| | 3.1 | 2870 | 446 | 120000 | 6.3 | | | |
| | 4.6 | 1940 | 302 | 120000 | 9.3 | | | |
| | 0.69 | 14000 | 2038 | 86600 | 0.85 | TFA 128 / TRF78 | MY 90S4 | 133 |
| | 0.79 | 12200 | 1784 | 90000 | 1.00 | TFAF 128 / TRF78 | MY 90S4 | 133 |
| | 0.87 | 11000 | 1606 | 90000 | 1.10 | TF 128 / TRF78 | MY 90S4 | 133 |
| | 1.0 | 9480 | 1390 | 90000 | 1.25 | TFF 128 / TRF78 | MY 90S4 | 133 |
| | 1.2 | 8280 | 1220 | 90000 | 1.45 | | | |
| | 1.3 | 7360 | 1077 | 90000 | 1.65 | | | |
| | 1.1 | 8480 | 1243 | 47600 | 0.90 | TFA 108 / TRF78 | MY 90S4 | 133 |
| | 1.3 | 7490 | 1087 | 50300 | 1.00 | TFAF 108 / TRF78 | MY 90S4 | 133 |
| | 1.5 | 6480 | 950 | 52900 | 1.20 | TF 108 / TRF78 | MY 90S4 | 133 |
| | 1.7 | 5660 | 834 | 54800 | 1.35 | TFF 108 / TRF78 | MY 90S4 | 133 |
| | 1.9 | 4970 | 736 | 56400 | 1.55 | | | |
| | 2.2 | 4380 | 640 | 57600 | 1.75 | | | |
| | 2.0 | 4750 | 690 | 25100 | 0.90 | TFA 98 / TRF58 | MY 90S4 | 133 |
| | 2.3 | 4170 | 605 | 30300 | 1.05 | TFAF 98 / TRF58 | MY 90S4 | 133 |
| | 2.6 | 3640 | 529 | 31700 | 1.20 | TF 98 / TRF58 | MY 90S4 | 133 |
| | 3.0 | 3210 | 467 | 32800 | 1.35 | TFF 98 / TRF58 | MY 90S4 | 133 |
| | 3.5 | 2770 | 406 | 33800 | 1.55 | | | |
| | 3.9 | 2490 | 363 | 34400 | 1.75 | | | |
| | 3.1 | 3130 | 452 | 14100 | 0.95 | TFA 88 / TRF58 | MY 90S4 | 133 |
| | 4.1 | 2360 | 345 | 25300 | 1.25 | TFAF 88 / TRF58 | MY 90S4 | 133 |
| | 4.7 | 2050 | 300 | 26300 | 1.45 | TF 88 / TRF58 | MY 90S4 | 133 |
| | 5.6 | 1700 | 249 | 27300 | 1.75 | TFF 88 / TRF58 | MY 90S4 | 133 |
| | 2.6 | 3990 | 254.40* | 58500 | 1.95 | TFA 108 | MY 100L8 | 123 |
| | 3.1 | 3380 | 215.37 | 59700 | 2.3 | TFAF 108 | MY 100L8 | 122 |
| | 3.4 | 3120 | 199.31 | 60200 | 2.5 | TF 108 | MY 100L8 | 121 |
| | 3.8 | 2800 | 178.64 | 60800 | 2.7 | TFF 108 | MY 100L8 | 122 |
| | 3.3 | 3160 | 276.77 | 32900 | 1.35 | TFA 98 | MY 90L6 | 119 |
| | 3.6 | 2890 | 253.41 | 33600 | 1.50 | TFAF 98 | MY 90L6 | 118 |
| | 4.1 | 2560 | 223.88 | 34300 | 1.70 | TF 98 | MY 90L6 | 117 |
| | 4.8 | 2170 | 189.92 | 35100 | 2.0 | TFF 98 | MY 90L6 | 118 |
| | 5.3 | 2000 | 174.87 | 35400 | 2.2 | | | |
| | 5.1 | 2080 | 276.77 | 35200 | 2.1 | TFA 98 | MY 90S4 | 119 |
| | 5.5 | 1900 | 253.41 | 35600 | 2.3 | TFAF 98 | MY 90S4 | 118 |
| | 6.2 | 1680 | 223.88 | 36000 | 2.6 | TF 98 | MY 90S4 | 117 |
| | | | | | TFF 98 | MY 90S4 | 118 | |
| 3.4 | 3090 | 270.68 | 16000 | 0.95 | TFA 88 | MY 90L6 | 115 | |
| 3.6 | 2920 | 255.37 | 22700 | 1.05 | TFAF 88 | MY 90L6 | 114 | |
| 4.0 | 2610 | 228.93 | 24400 | 1.15 | TF 88 | MY 90L6 | 113 | |
| | | | | | TFF 88 | MY 90L6 | 114 | |


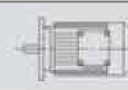
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | fs |  |  | Page |
|------------------|------------------|------------------|---------|---------------|---------|--|---|------|
| 1.1 | 4.7 | 2250 | 197.2 | 25700 | 1.35 | TFA 88 | MY 90L6 | 115 |
| | 5.1 | 2050 | 179.97 | 26300 | 1.45 | TFAF 88 | MY 90L6 | 114 |
| | 5.8 | 1820 | 159.61 | 27000 | 1.65 | TF 88 | MY 90L6 | 113 |
| | | | | | | TFF 88 | MY 90L6 | 114 |
| | 5.2 | 2030 | 270.68 | 26300 | 1.50 | TFA 88 | MY 90S4 | 115 |
| | 5.5 | 1920 | 255.37 | 26700 | 1.55 | TFAF 88 | MY 90S4 | 114 |
| | 6.1 | 1720 | 228.93 | 27200 | 1.75 | TF 88 | MY 90S4 | 113 |
| | 7.1 | 1480 | 197.20 | 27900 | 2.0 | TFF 88 | MY 90S4 | 114 |
| | 7.8 | 1350 | 179.97 | 28200 | 2.2 | TFA 88 | MY 90S4 | 115 |
| | 8.8 | 1200 | 159.61 | 28500 | 2.5 | TFAF 88 | MY 90S4 | 114 |
| | 10 | 1010 | 134.16 | 29000 | 3.0 | TF 88 | MY 90S4 | 113 |
| | 11 | 930 | 123.29 | 29100 | 3.2 | TFF 88 | MY 90S4 | 114 |
| | 7.1 | 1490 | 198.31 | 15800 | 1.00 | TFA 78 | MY 90S4 | 111 |
| | 7.4 | 1410 | 188.40 | 16300 | 1.05 | TFAF 78 | MY 90S4 | 110 |
| | 8.4 | 1250 | 166.47 | 17200 | 1.20 | TF 78 | MY 90S4 | 109 |
| | 9.8 | 1070 | 142.27 | 18000 | 1.40 | TFF 78 | MY 90S4 | 110 |
| | 11 | 980 | 130.42 | 18400 | 1.55 | TFA 78 | MY 90S4 | 111 |
| | 12 | 860 | 114.45 | 18800 | 1.75 | TFAF 78 | MY 90S4 | 110 |
| | 13 | 810 | 108.46* | 18900 | 1.85 | TF 78 | MY 90S4 | 109 |
| | 15 | 710 | 94.93 | 19200 | 2.1 | TFF 78 | MY 90S4 | 110 |
| | 16 | 640 | 85.52 | 19400 | 2.3 | | | |
| | 19 | 565 | 75.02 | 19600 | 2.7 | | | |
| | 12 | 910 | 120.79 | 9460 | 0.90 | TFA 68 | MY 90S4 | 107 |
| | 13 | 820 | 109.04 | 10300 | 1.00 | TFAF 68 | MY 90S4 | 106 |
| | 15 | 720 | 95.94 | 11100 | 1.15 | TF 68 | MY 90S4 | 105 |
| | 15 | 680 | 90.59 | 11400 | 1.20 | TFF 68 | MY 90S4 | 106 |
| | 18 | 600 | 79.76 | 11900 | 1.35 | | | |
| | 21 | 510 | 67.65 | 12400 | 1.60 | | | |
| | 23 | 460 | 61.07 | 12600 | 1.80 | | | |
| | 26 | 405 | 53.73 | 12800 | 2.0 | | | |
| | 28 | 380 | 50.74 | 12900 | 2.2 | | | |
| | 32 | 325 | 43.20 | 13000 | 2.5 | | | |
| | 36 | 295 | 39.26 | 13000 | 2.7 | | | |
| | 41 | 255 | 34.01 | 13000 | 2.9 | | | |
| | 17 | 625 | 83.46 | 8470 | 0.95 | TFA 58 | MY 90S4 | 103 |
| | 19 | 550 | 72.98 | 9590 | 1.10 | TFAF 58 | MY 90S4 | 102 |
| | 21 | 510 | 68.22 | 9840 | 1.15 | TF 58 | MY 90S4 | 101 |
| | 24 | 440 | 58.97 | 10300 | 1.35 | TFF 58 | MY 90S4 | 102 |
| | 28 | 375 | 50.10 | 10700 | 1.60 | | | |
| | 31 | 335 | 44.73 | 10700 | 1.80 | | | |
| | 37 | 285 | 38.21 | 10400 | 2.1 | | | |
| | 39 | 270 | 35.79 | 10200 | 2.2 | | | |
| | 46 | 225 | 30.15 | 9810 | 2.6 | | | |
| | 25 | 425 | 56.49 | 3730 | 0.95 | TFA 48 | MY 90S4 | 99 |
| 29 | 360 | 48.00* | 6440 | 1.10 | TFAF 48 | MY 90S4 | 98 | |
| | | | | | TF 48 | MY 90S4 | 97 | |
| | | | | | TFF 48 | MY 90S4 | 98 | |
| | | | | | | | | |
| 33 | 320 | 42.86 | 6860 | 1.25 | TFA 48 | MY 90S4 | 99 | |
| 38 | 275 | 36.61 | 7280 | 1.45 | TFAF 48 | MY 90S4 | 98 | |
| 41 | 255 | 34.29 | 7260 | 1.55 | TF 48 | MY 90S4 | 97 | |
| 48 | 215 | 28.88 | 7040 | 1.85 | TFF 48 | MY 90S4 | 98 | |
| 45 | 230 | 30.86 | 7130 | 1.75 | TFA 48 | MY 90S4 | 99 | |
| 48 | 220 | 29.32 | 7060 | 1.80 | TFAF 48 | MY 90S4 | 98 | |
| 54 | 193 | 25.72 | 6880 | 2.1 | TF 48 | MY 90S4 | 97 | |
| 64 | 164 | 21.82 | 6640 | 2.4 | TFF 48 | MY 90S4 | 98 | |
| 71 | 148 | 19.70 | 6490 | 2.7 | | | | |


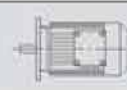
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|--------|--|---|------|
| 1.1 | 44 | 240 | 31.69 | 3660 | 0.85 | TFA 38 | MY 90S4 | 95 |
| | 50 | 210 | 28.09 | 3970 | 0.95 | TFAF 38 | MY 90S4 | 94 |
| | 59 | 179 | 23.88 | 3930 | 1.10 | TF 38 | MY 90S4 | 93 |
| | | | | | | TFF 38 | MY 90S4 | 94 |
| | 68 | 154 | 20.57 | 3870 | 1.30 | TFA 38 | MY 90S4 | 95 |
| | 73 | 145 | 19.27 | 3840 | 1.40 | TFAF 38 | MY 90S4 | 94 |
| | 82 | 128 | 17.03 | 3780 | 1.55 | TF 38 | MY 90S4 | 93 |
| | 98 | 108 | 14.33 | 3680 | 1.85 | TFF 38 | MY 90S4 | 94 |
| | 109 | 97 | 12.87 | 3610 | 2.1 | | | |
| | 126 | 83 | 11.08 | 3500 | 2.3 | | | |
| | 134 | 78 | 10.42 | 3460 | 2.4 | | | |
| | 156 | 67 | 8.97 | 3350 | 2.6 | | | |
| | 69 | 151 | 20.15 | 2440 | 0.85 | TFA 28 | MY 90S4 | 91 |
| | 74 | 141 | 18.84 | 2450 | 0.90 | TFAF 28 | MY 90S4 | 90 |
| | 86 | 122 | 16.28 | 2440 | 1.05 | TF 28 | MY 90S4 | 89 |
| | 101 | 104 | 13.84 | 2420 | 1.25 | TFF 28 | MY 90S4 | 90 |
| | 113 | 93 | 12.35 | 2390 | 1.40 | | | |
| | 133 | 79 | 10.55 | 2350 | 1.65 | | | |
| | 142 | 74 | 9.88 | 2330 | 1.75 | | | |
| | 149 | 71 | 9.40 | 2240 | 1.85 | | | |
| | 172 | 61 | 8.13 | 2200 | 2.0 | | | |
| | 203 | 52 | 6.91 | 2140 | 2.2 | | | |
| | 227 | 46 | 6.17 | 2090 | 2.4 | | | |
| | 266 | 40 | 5.27 | 2030 | 2.5 | | | |
| | 284 | 37 | 4.93 | 2000 | 2.6 | | | |
| | 337 | 31 | 4.16 | 1930 | 2.8 | | | |
| | 332 | 32 | 8.13 | 1940 | 3.9 | TFA 28 | MY 80N2 | 91 |
| | 391 | 27 | 6.91 | 1860 | 4.2 | TFAF 28 | MY 80N2 | 90 |
| 438 | 24 | 6.17 | 1810 | 4.5 | TF 28 | MY 80N2 | 89 | |
| 513 | 21 | 5.27 | 1740 | 4.9 | TFF 28 | MY 80N2 | 90 | |
| 547 | 19 | 4.93 | 1710 | 5.0 | | | | |
| 650 | 16 | 4.16 | 1640 | 5.4 | | | | |
| 1.5 | 0.58 | 22200 | 2427 | 83000 | 0.80 | TFA 158 / TRF98 | MY 90L4 | 133 |
| | 0.65 | 19800 | 2185 | 94400 | 0.90 | TFAF 158 / TRF98 | MY 90L4 | 133 |
| | 0.73 | 17600 | 1944 | 101300 | 1.00 | TF 158 / TRF98 | MY 90L4 | 133 |
| | 0.84 | 15500 | 1674 | 107000 | 1.15 | TFF 158 / TRF98 | MY 90L4 | 133 |
| | 1.1 | 12000 | 1308 | 114100 | 1.50 | | | |
| | 1.2 | 10700 | 1169 | 116300 | 1.70 | | | |
| | 1.5 | 8580 | 953 | 119100 | 2.1 | | | |
| | 1.7 | 7540 | 845 | 120000 | 2.4 | | | |
| | 3.2 | 3980 | 446 | 120000 | 4.5 | | | |
| | 4.7 | 2700 | 302 | 120000 | 6.7 | | | |
| | 0.88 | 15000 | 1606 | 84600 | 0.80 | TFA 128 / TRF78 | MY 90L4 | 133 |
| | 1.0 | 13000 | 1390 | 88600 | 0.95 | TFAF 128 / TRF78 | MY 90L4 | 133 |
| | 1.2 | 11300 | 1220 | 90000 | 1.05 | TF 128 / TRF78 | MY 90L4 | 133 |
| | 1.3 | 10100 | 1077 | 90000 | 1.20 | TFF 128 / TRF78 | MY 90L4 | 133 |
| | 1.5 | 8630 | 930 | 90000 | 1.40 | | | |
| | 1.7 | 7590 | 820 | 90000 | 1.60 | | | |
| | 1.9 | 6710 | 727 | 90000 | 1.80 | | | |
| | 2.2 | 6050 | 648 | 90000 | 2.0 | | | |
| | 1.5 | 8850 | 950 | 46600 | 0.85 | TFA 108 / TRF78 | MY 90L4 | 133 |
| | 1.7 | 7740 | 834 | 49700 | 1.00 | TFAF 108 / TRF78 | MY 90L4 | 133 |
| | 1.9 | 6810 | 736 | 52100 | 1.15 | TF 108 / TRF78 | MY 90L4 | 133 |
| | 2.2 | 5980 | 640 | 54100 | 1.30 | TFF 108 / TRF78 | MY 90L4 | 133 |
| | 2.5 | 5170 | 560 | 55900 | 1.50 | | | |
| | 2.9 | 4520 | 489 | 57400 | 1.70 | | | |


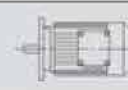
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|---------|--|---|------|
| 1.5 | 3.2 | 4070 | 436 | 58300 | 1.90 | TFA 108 / TRF78 | MY 90L4 | 133 |
| | 3.8 | 3450 | 370 | 59500 | 2.2 | TFAF 108 / TRF78 | MY 90L4 | 133 |
| | | | | | | TF 108 / TRF78 | MY 90L4 | 133 |
| | | | | | | TFF 108 / TRF78 | MY 90L4 | 133 |
| | 2.7 | 4960 | 529 | 15500 | 0.85 | TFA 98 / TRF58 | MY 90L4 | 133 |
| | 3.0 | 4380 | 467 | 29700 | 1.00 | TFAF 98 / TRF58 | MY 90L4 | 133 |
| | 3.5 | 3790 | 406 | 31300 | 1.15 | TF 98 / TRF58 | MY 90L4 | 133 |
| | 3.9 | 3400 | 363 | 32400 | 1.25 | TFF 98 / TRF58 | MY 90L4 | 133 |
| | 4.7 | 2800 | 300 | 23700 | 1.05 | TFA 88 / TRF58 | MY 90L4 | 133 |
| | 5.7 | 2320 | 249 | 25400 | 1.30 | TFAF 88 / TRF58 | MY 90L4 | 133 |
| | | | | | | TF 88 / TRF58 | MY 90L4 | 133 |
| | | | | | | TFF 88 / TRF58 | MY 90L4 | 133 |
| | 2.8 | 5210 | 254.40* | 55900 | 1.50 | TFA 108 | MY 112M8 | 123 |
| | 3.2 | 4410 | 215.37 | 57600 | 1.75 | TFAF 108 | MY 112M8 | 122 |
| | 3.5 | 4080 | 199.31 | 58300 | 1.90 | TF 108 | MY 112M8 | 121 |
| | 3.9 | 3660 | 178.64 | 59100 | 2.1 | TFF 108 | MY 112M8 | 122 |
| | 3.6 | 3960 | 254.40* | 58500 | 1.95 | TFA 108 | MY 100M6 | 123 |
| | 4.3 | 3350 | 215.37 | 59700 | 2.3 | TFAF 108 | MY 100M6 | 122 |
| | 4.6 | 3100 | 199.31 | 60200 | 2.5 | TF 108 | MY 100M6 | 121 |
| | 5.2 | 2780 | 178.64 | 60800 | 2.8 | TFF 108 | MY 100M6 | 122 |
| | 3.3 | 4310 | 276.77 | 29900 | 1.00 | TFA 98 | MY 100M6 | 119 |
| | 3.6 | 3950 | 253.41 | 30900 | 1.10 | TFAF 98 | MY 100M6 | 118 |
| | 4.1 | 3490 | 223.88 | 32100 | 1.25 | TF 98 | MY 100M6 | 117 |
| | 4.8 | 2960 | 189.92 | 33400 | 1.45 | TFF 98 | MY 100M6 | 118 |
| | 5.3 | 2720 | 174.87 | 33900 | 1.60 | | | |
| | 5.1 | 2810 | 276.77 | 33700 | 1.55 | TFA 98 | MY 90L4 | 119 |
| | 5.6 | 2570 | 253.41 | 34300 | 1.65 | TFAF 98 | MY 90L4 | 118 |
| | 6.3 | 2270 | 223.88 | 34900 | 1.90 | TF 98 | MY 90L4 | 117 |
| | 7.4 | 1930 | 189.92 | 35500 | 2.2 | TFF 98 | MY 90L4 | 118 |
| | 8.1 | 1780 | 174.87 | 35800 | 2.4 | | | |
| | 5.2 | 2750 | 270.68 | 23900 | 1.10 | TFA 88 | MY 90L4 | 115 |
| | 5.5 | 2590 | 255.37 | 24500 | 1.15 | TFAF 88 | MY 90L4 | 114 |
| | 6.2 | 2330 | 228.93 | 25400 | 1.30 | TF 88 | MY 90L4 | 113 |
| | 7.2 | 2000 | 197.20 | 26400 | 1.50 | TFF 88 | MY 90L4 | 114 |
| | 7.8 | 1830 | 179.97 | 26900 | 1.65 | TFA 88 | MY 90L4 | 115 |
| | 8.8 | 1620 | 159.61 | 27500 | 1.85 | TFAF 88 | MY 90L4 | 114 |
| | 11 | 1360 | 134.16 | 28200 | 2.2 | TF 88 | MY 90L4 | 113 |
| | 13 | 1110 | 109.49 | 28700 | 2.7 | TFF 88 | MY 90L4 | 114 |
| | 14 | 990 | 97.89 | 29000 | 3.0 | | | |
| | 8.5 | 1690 | 166.47 | 14300 | 0.90 | TFA 78 | MY 90L4 | 111 |
| | 9.9 | 1450 | 142.27 | 16100 | 1.05 | TFAF 78 | MY 90L4 | 110 |
| | 11 | 1320 | 130.42 | 16800 | 1.15 | TF 78 | MY 90L4 | 109 |
| | 12 | 1160 | 114.45 | 17600 | 1.30 | TFF 78 | MY 90L4 | 110 |
| | 13 | 1100 | 108.46* | 17900 | 1.35 | TFA 78 | MY 90L4 | 111 |
| 15 | 960 | 94.93 | 18400 | 1.55 | TFAF 78 | MY 90L4 | 110 | |
| 16 | 870 | 85.52 | 18800 | 1.75 | TF 78 | MY 90L4 | 109 | |
| 19 | 760 | 75.02 | 19100 | 1.95 | TFF 78 | MY 90L4 | 110 | |
| 19 | 735 | 72.50 | 19200 | 2.0 | | | | |
| 21 | 675 | 66.46 | 19300 | 2.2 | | | | |
| 24 | 595 | 58.32 | 19500 | 2.5 | | | | |
| 26 | 560 | 55.27 | 19600 | 2.7 | | | | |
| 29 | 490 | 48.37 | 19700 | 3.1 | | | | |
| 32 | 445 | 43.58 | 19800 | 3.4 | | | | |
| 37 | 390 | 38.23 | 19900 | 3.9 | | | | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|---------|--|---|------|
| 1.5 | 39 | 370 | 36.58 | 19900 | 3.0 | TFA 78 | MY 90L4 | 111 |
| | 45 | 320 | 31.51 | 20000 | 4.3 | TFAF 78 | MY 90L4 | 110 |
| | | | | | | TF 78 | MY 90L4 | 109 |
| | | | | | | TFF 78 | MY 90L4 | 110 |
| | 16 | 920 | 90.59 | 9300 | 0.90 | TFA 68 | MY 90L4 | 107 |
| | 18 | 810 | 79.76 | 10400 | 1.00 | TFAF 68 | MY 90L4 | 106 |
| | 21 | 685 | 67.65 | 11400 | 1.20 | TF 68 | MY 90L4 | 105 |
| | 23 | 620 | 61.07 | 11800 | 1.30 | TFF 68 | MY 90L4 | 106 |
| | 26 | 545 | 53.73 | 12200 | 1.50 | | | |
| | 28 | 515 | 50.74 | 12300 | 1.60 | | | |
| | 33 | 440 | 43.20 | 12700 | 1.85 | | | |
| | 36 | 400 | 39.26 | 12800 | 1.95 | | | |
| | 39 | 370 | 36.30 | 12900 | 2.2 | TFA 68 | MY 90L4 | 107 |
| | 44 | 325 | 32.08 | 13000 | 2.5 | TFAF 68 | MY 90L4 | 106 |
| | 51 | 280 | 27.41 | 13000 | 2.9 | TF 68 | MY 90L4 | 105 |
| | 56 | 255 | 25.13 | 13000 | 3.2 | TFF 68 | MY 90L4 | 106 |
| | 24 | 600 | 58.97 | 9210 | 1.00 | TFA 58 | MY 90L4 | 103 |
| | 28 | 510 | 50.10 | 9860 | 1.20 | TFAF 58 | MY 90L4 | 102 |
| | 32 | 455 | 44.73 | 9990 | 1.30 | TF 58 | MY 90L4 | 101 |
| | 37 | 390 | 38.21 | 9740 | 1.55 | TFF 58 | MY 90L4 | 102 |
| | 39 | 365 | 35.79 | 9620 | 1.65 | | | |
| | 47 | 305 | 30.15 | 9310 | 1.95 | | | |
| | 33 | 435 | 42.86 | 575 | 0.90 | TFA 48 | MY 90L4 | 99 |
| | 39 | 370 | 36.61 | 6300 | 1.10 | TFAF 48 | MY 90L4 | 98 |
| | 41 | 350 | 34.29 | 6580 | 1.15 | TF 48 | MY 90L4 | 97 |
| | 49 | 295 | 28.88 | 6500 | 1.35 | TFF 48 | MY 90L4 | 98 |
| | 46 | 315 | 30.86 | 6550 | 1.30 | TFA 48 | MY 90L4 | 99 |
| | 48 | 300 | 29.32 | 6510 | 1.35 | TFAF 48 | MY 90L4 | 98 |
| | 55 | 260 | 25.72 | 6390 | 1.55 | TF 48 | MY 90L4 | 97 |
| | 65 | 220 | 21.82 | 6230 | 1.80 | TFF 48 | MY 90L4 | 98 |
| | 72 | 200 | 19.70 | 6110 | 2.0 | | | |
| | 81 | 176 | 17.33 | 5970 | 2.3 | | | |
| | 86 | 166 | 16.36 | 5900 | 2.4 | | | |
| | 101 | 142 | 13.93 | 5700 | 2.8 | | | |
| | 69 | 210 | 20.57 | 3410 | 0.95 | TFA 38 | MY 90L4 | 95 |
| | 73 | 196 | 19.27 | 3410 | 1.00 | TFAF 38 | MY 90L4 | 94 |
| | 83 | 173 | 17.03 | 3400 | 1.15 | TF 38 | MY 90L4 | 93 |
| | 98 | 146 | 14.33 | 3350 | 1.35 | TFF 38 | MY 90L4 | 94 |
| | 110 | 131 | 12.87 | 3310 | 1.55 | | | |
| | 127 | 113 | 11.08 | 3250 | 1.70 | | | |
| | 135 | 106 | 10.42 | 3220 | 1.75 | | | |
| | 157 | 91 | 8.97 | 3140 | 1.90 | | | |
| | 176 | 81 | 8.01 | 3080 | 2.1 | | | |
| | 102 | 141 | 13.84 | 2080 | 0.90 | TFA 28 | MY 90L4 | 91 |
| 114 | 126 | 12.35 | 2090 | 1.05 | TFAF 28 | MY 90L4 | 90 | |
| 134 | 107 | 10.55 | 2090 | 1.20 | TF 28 | MY 90L4 | 89 | |
| 143 | 100 | 9.88 | 2090 | 1.30 | TFF 28 | MY 90L4 | 90 | |
| 150 | 96 | 9.40 | 1990 | 1.35 | | | | |
| 173 | 83 | 8.13 | 1980 | 1.50 | | | | |
| 204 | 70 | 6.91 | 1950 | 1.60 | | | | |
| 229 | 63 | 6.17 | 1930 | 1.75 | | | | |
| 268 | 54 | 5.27 | 1890 | 1.85 | | | | |
| 286 | 50 | 4.93 | 1870 | 1.90 | | | | |
| 339 | 42 | 4.16 | 1810 | 2.1 | | | | |


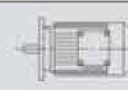
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|----------|--|---|------|
| 1.5 | 344 | 42 | 8.13 | 1810 | 3.0 | TFA 28 | MY 90S2 | 91 |
| | 405 | 35 | 6.91 | 1750 | 3.2 | TFAF 28 | MY 90S2 | 90 |
| | 454 | 32 | 6.17 | 1710 | 3.5 | TF 28 | MY 90S2 | 89 |
| | 532 | 27 | 5.27 | 1660 | 3.7 | TFF 28 | MY 90S2 | 90 |
| | 568 | 25 | 4.93 | 1630 | 3.8 | | | |
| | 674 | 21 | 4.16 | 1570 | 4.1 | | | |
| 2.2 | 0.98 | 18700 | 1441 | 98000 | 0.95 | TFA 158 / TRF98 | MY 100M4 | 133 |
| | | | | | | TFAF 158 / TRF98 | MY 100M4 | 133 |
| | | | | | | TF 158 / TRF98 | MY 100M4 | 133 |
| | | | | | | TFF 158 / TRF98 | MY 100M4 | 133 |
| | 1.1 | 17900 | 1308 | 100700 | 1.00 | TFA 158 / TRF98 | MY 100M4 | 133 |
| | 1.2 | 15900 | 1169 | 106000 | 1.15 | TFAF 158 / TRF98 | MY 100M4 | 133 |
| | 1.5 | 12800 | 953 | 112600 | 1.40 | TF 158 / TRF98 | MY 100M4 | 133 |
| | 1.7 | 11300 | 845 | 115300 | 1.60 | TFF 158 / TRF98 | MY 100M4 | 133 |
| | 1.9 | 10200 | 764 | 117000 | 1.75 | | | |
| | 2.1 | 9040 | 680 | 118500 | 2.0 | | | |
| | 2.5 | 7580 | 576 | 120000 | 2.4 | | | |
| | 3.2 | 5970 | 446 | 120000 | 3.0 | | | |
| | 4.7 | 4040 | 302 | 120000 | 4.5 | | | |
| | 5.2 | 3630 | 273 | 120000 | 5.0 | | | |
| | 6.1 | 3050 | 232 | 120000 | 5.9 | | | |
| | 7.2 | 2590 | 197 | 120000 | 7.0 | | | |
| | 1.3 | 14900 | 1077 | 84800 | 0.80 | TFA 128 / TRF78 | MY 100M4 | 133 |
| | 1.5 | 12800 | 930 | 88900 | 0.95 | TFAF 128 / TRF78 | MY 100M4 | 133 |
| | 1.7 | 11300 | 820 | 90000 | 1.05 | TF 128 / TRF78 | MY 100M4 | 133 |
| | 1.9 | 9960 | 727 | 90000 | 1.20 | TFF 128 / TRF78 | MY 100M4 | 133 |
| | 2.2 | 8940 | 648 | 90000 | 1.35 | | | |
| | 2.6 | 7580 | 549 | 90000 | 1.60 | | | |
| | 2.9 | 6820 | 495 | 90000 | 1.75 | | | |
| | 3.3 | 5900 | 428 | 90000 | 2.0 | | | |
| | 2.2 | 8830 | 640 | 46600 | 0.85 | TFA 108 / TRF78 | MY 100M4 | 133 |
| | 2.5 | 7670 | 560 | 49800 | 1.00 | TFAF 108 / TRF78 | MY 100M4 | 133 |
| | 2.9 | 6700 | 489 | 52300 | 1.15 | TF 108 / TRF78 | MY 100M4 | 133 |
| | 3.2 | 6010 | 436 | 54000 | 1.30 | TFF 108 / TRF78 | MY 100M4 | 133 |
| | 3.8 | 5100 | 370 | 56100 | 1.50 | | | |
| | 4.2 | 4590 | 333 | 57200 | 1.65 | | | |
| | 4.9 | 3950 | 285 | 30900 | 1.10 | TFA 98 / TRF58 | MY 100M4 | 133 |
| | 5.8 | 3390 | 245 | 32400 | 1.25 | TFAF 98 / TRF58 | MY 100M4 | 133 |
| | | | | | | TF 98 / TRF58 | MY 100M4 | 133 |
| | | | | | | TFF 98 / TRF58 | MY 100M4 | 133 |
| | 2.8 | 7640 | 254.40* | 49900 | 1.00 | TFA 108 | MY 132S8 | 123 |
| | 3.2 | 6460 | 215.37 | 52900 | 1.20 | TFAF 108 | MY 132S8 | 122 |
| | 3.5 | 5980 | 199.31 | 54100 | 1.30 | TF 108 | MY 132S8 | 121 |
| | 3.9 | 5360 | 178.64 | 55500 | 1.45 | TFF 108 | MY 132S8 | 122 |
| | 3.7 | 5690 | 254.40* | 54800 | 1.35 | TFA 108 | MY 112M6 | 123 |
| | 4.4 | 4810 | 215.37 | 56700 | 1.60 | TFAF 108 | MY 112M6 | 122 |
| | 4.7 | 4450 | 199.31 | 57500 | 1.70 | TF 108 | MY 112M6 | 121 |
| | 5.3 | 3990 | 178.64 | 58400 | 1.90 | TFF 108 | MY 112M6 | 122 |
| 5.5 | 3790 | 254.40* | 58900 | 2.0 | TFA 108 | MY 100M4 | 123 | |
| 6.5 | 3210 | 215.37 | 60000 | 2.4 | TFAF 108 | MY 100M4 | 122 | |
| 7.1 | 2970 | 199.31 | 60400 | 2.6 | TF 108 | MY 100M4 | 121 | |
| 7.9 | 2660 | 178.64 | 61000 | 2.9 | TFF 108 | MY 100M4 | 122 | |
| 4.2 | 5000 | 223.88 | 12400 | 0.85 | TFA 98 | MY 112M6 | 119 | |
| 5.0 | 4240 | 189.92 | 30100 | 1.00 | TFAF 98 | MY 112M6 | 118 | |
| 5.4 | 3910 | 174.87 | 31000 | 1.10 | TF 98 | MY 112M6 | 117 | |
| 6.0 | 3490 | 156.30 | 32100 | 1.25 | TFF 98 | MY 112M6 | 118 | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|---------|--|---|------|
| 2.2 | 5.1 | 4120 | 276.77 | 30400 | 1.05 | TFA 98 | MY 100M4 | 119 |
| | 5.6 | 3780 | 253.41 | 31400 | 1.15 | TFAF 98 | MY 100M4 | 118 |
| | 6.3 | 3340 | 223.88 | 32500 | 1.30 | TF 98 | MY 100M4 | 117 |
| | 7.4 | 2830 | 189.92 | 33700 | 1.50 | TFF 98 | MY 100M4 | 118 |
| | 8.1 | 2610 | 174.87 | 34200 | 1.65 | | | |
| | 9.0 | 2330 | 156.30 | 34800 | 1.85 | | | |
| | 10 | 2100 | 140.71 | 35200 | 2.1 | | | |
| | 11 | 1900 | 127.42 | 35600 | 2.3 | | | |
| | 7.2 | 2940 | 197.20 | 22000 | 1.00 | TFA 88 | MY 100M4 | 115 |
| | 7.8 | 2680 | 179.97 | 24200 | 1.10 | TFAF 88 | MY 100M4 | 114 |
| | 8.8 | 2380 | 159.61 | 25200 | 1.25 | TF 88 | MY 100M4 | 113 |
| | 11 | 2000 | 134.16 | 26400 | 1.50 | TFF 88 | MY 100M4 | 114 |
| | 11 | 1840 | 123.29 | 26900 | 1.65 | TFA 88 | MY 100M4 | 115 |
| | 13 | 1630 | 109.49 | 27500 | 1.85 | TFAF 88 | MY 100M4 | 114 |
| | 14 | 1460 | 97.89 | 27900 | 2.1 | TF 88 | MY 100M4 | 113 |
| | 16 | 1310 | 88.01 | 28300 | 2.3 | TFF 88 | MY 100M4 | 114 |
| | 18 | 1140 | 76.39 | 27800 | 2.6 | | | |
| | 21 | 1020 | 68.40 | 27100 | 2.9 | | | |
| | 25 | 850 | 56.75 | 25900 | 3.6 | | | |
| | 28 | 750 | 50.36 | 25200 | 3.9 | | | |
| | 31 | 675 | 45.28 | 24500 | 4.2 | | | |
| | 12 | 1710 | 114.45 | 14200 | 0.90 | TFA 78 | MY 100M4 | 111 |
| | 13 | 1620 | 108.46* | 14900 | 0.95 | TFAF 78 | MY 100M4 | 110 |
| | 15 | 1410 | 94.93 | 16300 | 1.05 | TF 78 | MY 100M4 | 109 |
| | 16 | 1270 | 85.52 | 17100 | 1.20 | TFF 78 | MY 100M4 | 110 |
| | 19 | 1120 | 75.02 | 17800 | 1.35 | TFA 78 | MY 100M4 | 111 |
| | 21 | 990 | 66.46 | 18300 | 1.50 | TFAF 78 | MY 100M4 | 110 |
| | 24 | 870 | 58.32 | 18800 | 1.75 | TF 78 | MY 100M4 | 109 |
| | 26 | 820 | 55.27 | 18900 | 1.80 | TFF 78 | MY 100M4 | 110 |
| | 29 | 720 | 48.37 | 19200 | 2.1 | | | |
| | 32 | 650 | 43.58 | 19400 | 2.3 | | | |
| | 39 | 545 | 36.58 | 19600 | 2.0 | TFA 78 | MY 100M4 | 111 |
| | 45 | 470 | 31.51 | 19700 | 2.9 | TFAF 78 | MY 100M4 | 110 |
| | 49 | 430 | 28.75 | 19800 | 3.3 | TF 78 | MY 100M4 | 109 |
| | 55 | 380 | 25.50* | 19900 | 4.0 | TFF 78 | MY 100M4 | 110 |
| | 23 | 910 | 61.07 | 9420 | 0.90 | TFA 68 | MY 100M4 | 107 |
| | 26 | 800 | 53.73 | 10500 | 1.00 | TFAF 68 | MY 100M4 | 106 |
| | 28 | 755 | 50.74 | 10800 | 1.10 | TF 68 | MY 100M4 | 105 |
| | 33 | 645 | 43.20 | 11600 | 1.25 | TFF 68 | MY 100M4 | 106 |
| | 36 | 585 | 39.26 | 12000 | 1.35 | | | |
| | 41 | 505 | 34.01 | 12400 | 1.45 | | | |
| | 44 | 480 | 32.08 | 12500 | 1.70 | TFA 68 | MY 100M4 | 107 |
| | 51 | 410 | 27.41 | 12800 | 2.0 | TFAF 68 | MY 100M4 | 106 |
| | 56 | 375 | 25.13 | 12900 | 2.2 | TF 68 | MY 100M4 | 105 |
| | 64 | 330 | 22.05 | 13000 | 2.5 | TFF 68 | MY 100M4 | 106 |
| 67 | 310 | 20.90* | 13000 | 2.6 | | | | |
| 77 | 275 | 18.29 | 13000 | 3.0 | | | | |
| 32 | 665 | 44.73 | 4480 | 0.90 | TFA 58 | MY 100M4 | 103 | |
| 37 | 570 | 38.21 | 8660 | 1.05 | TFAF 58 | MY 100M4 | 102 | |
| 39 | 535 | 35.79 | 8620 | 1.15 | TF 58 | MY 100M4 | 101 | |
| 47 | 450 | 30.15 | 8460 | 1.30 | TFF 58 | MY 100M4 | 102 | |
| 56 | 370 | 24.96 | 8240 | 1.55 | TFA 58 | MY 100M4 | 103 | |
| 67 | 315 | 21.17 | 8020 | 1.90 | TFAF 58 | MY 100M4 | 102 | |
| 74 | 285 | 19.11 | 7870 | 2.1 | TF 58 | MY 100M4 | 101 | |
| 84 | 250 | 16.81 | 7670 | 2.4 | TFF 58 | MY 100M4 | 102 | |
| 89 | 235 | 15.88 | 7580 | 2.5 | | | | |


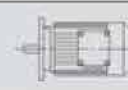
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|-------|-----------------|--------|--|---|----------|-----|
| 2.2 | 55 | 385 | 25.72 | 5560 | 1.05 | TFA 48 | MY 100M4 | 99 | |
| | 65 | 325 | 21.82 | 5520 | 1.25 | TFAF 48 | MY 100M4 | 98 | |
| | 72 | 295 | 19.70 | 5480 | 1.35 | TF 48 | MY 100M4 | 97 | |
| | 81 | 260 | 17.33 | 5410 | 1.55 | TFF 48 | MY 100M4 | 98 | |
| | 86 | 245 | 16.36 | 5370 | 1.65 | | | | |
| | 101 | 210 | 13.93 | 5250 | 1.95 | | | | |
| | 111 | 189 | 12.66 | 5170 | 2.1 | | | | |
| | 129 | 163 | 10.97 | 5040 | 2.5 | | | | |
| | 157 | 133 | 8.96 | 4740 | 2.5 | | | | |
| | 98 | 215 | 14.33 | 2790 | 0.95 | TFA 38 | MY 100M4 | 95 | |
| | 110 | 192 | 12.87 | 2810 | 1.05 | TFAF 38 | MY 100M4 | 94 | |
| | 127 | 165 | 11.08 | 2820 | 1.15 | TF 38 | MY 100M4 | 93 | |
| | 135 | 155 | 10.42 | 2810 | 1.20 | TFF 38 | MY 100M4 | 94 | |
| | 157 | 134 | 8.97 | 2790 | 1.30 | | | | |
| | 176 | 119 | 8.01 | 2770 | 1.40 | | | | |
| | 209 | 100 | 6.74 | 2630 | 1.40 | | | | |
| | 233 | 90 | 6.05 | 2590 | 1.50 | | | | |
| | 271 | 78 | 5.21 | 2540 | 1.60 | | | | |
| | 288 | 73 | 4.90 | 2520 | 1.65 | | | | |
| | 334 | 63 | 4.22 | 2460 | 1.75 | | | | |
| | 374 | 56 | 3.77 | 2400 | 1.85 | | | | |
| | 139 | 151 | 20.15 | 1660 | 0.85 | TFA 28 | MY 90L2 | 91 | |
| | 149 | 141 | 18.84 | 1680 | 0.90 | TFAF 28 | MY 90L2 | 90 | |
| | 173 | 122 | 16.28 | 1710 | 1.05 | TF 28 | MY 90L2 | 89 | |
| | 203 | 103 | 13.84 | 1730 | 1.25 | TFF 28 | MY 90L2 | 90 | |
| | 227 | 92 | 12.35 | 1730 | 1.40 | | | | |
| | 266 | 79 | 10.55 | 1720 | 1.65 | | | | |
| | 284 | 74 | 9.88 | 1710 | 1.75 | | | | |
| | 299 | 70 | 9.40 | 1630 | 1.85 | | | | |
| | 346 | 61 | 8.13 | 1620 | 2.0 | | | | |
| | 407 | 52 | 6.91 | 1590 | 2.2 | | | | |
| | 456 | 46 | 6.17 | 1570 | 2.4 | | | | |
| | 533 | 39 | 5.27 | 1530 | 2.5 | | | | |
| | 570 | 37 | 4.93 | 1510 | 2.6 | | | | |
| | 676 | 31 | 4.16 | 1470 | 2.8 | | | | |
| | 3.0 | 1.2 | 22000 | 1169 | 86000 | 0.80 | TFA 158 / TRF98 | MY 100L4 | 133 |
| | | 1.5 | 17800 | 953 | 100800 | 1.00 | TFAF 158 / TRF98 | MY 100L4 | 133 |
| 1.7 | | 15700 | 845 | 106400 | 1.15 | TF 158 / TRF98 | MY 100L4 | 133 | |
| 1.8 | | 14200 | 764 | 110000 | 1.25 | TFF 158 / TRF98 | MY 100L4 | 133 | |
| 2.1 | | 12600 | 680 | 113000 | 1.45 | | | | |
| 2.4 | | 10600 | 576 | 116400 | 1.70 | | | | |
| 3.1 | | 8310 | 446 | 119400 | 2.2 | | | | |
| 4.6 | | 5630 | 302 | 120000 | 3.2 | | | | |
| 5.1 | | 5070 | 273 | 120000 | 3.6 | | | | |
| 6.0 | | 4260 | 232 | 120000 | 4.2 | | | | |
| 7.1 | | 3620 | 197 | 120000 | 5.0 | | | | |
| 1.9 | | 13800 | 727 | 87000 | 0.85 | TFA 128 / TRF78 | MY 100L4 | 133 | |
| 2.2 | | 12300 | 648 | 89800 | 0.95 | TFAF 128 / TRF78 | MY 100L4 | 133 | |
| 2.6 | | 10500 | 549 | 90000 | 1.15 | TF 128 / TRF78 | MY 100L4 | 133 | |
| 2.8 | | 9410 | 495 | 90000 | 1.30 | TFF 128 / TRF78 | MY 100L4 | 133 | |
| 3.2 | | 8300 | 436 | 48100 | 0.95 | TFA 108 / TRF78 | MY 100L4 | 133 | |
| 3.8 | | 7040 | 370 | 51500 | 1.10 | TFAF 108 / TRF78 | MY 100L4 | 133 | |
| 4.2 | | 6340 | 333 | 53200 | 1.20 | TF 108 / TRF78 | MY 100L4 | 133 | |
| 4.8 | | 5540 | 291 | 55100 | 1.40 | TFF 108 / TRF78 | MY 100L4 | 133 | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|---------------|---------|--|---|------|
| 3.0 | 3.7 | 7750 | 254.40* | 49600 | 1.00 | TFA 108 | MY 132S6 | 123 |
| | 4.4 | 6560 | 215.37 | 52700 | 1.15 | TFAF 108 | MY 132S6 | 122 |
| | 4.7 | 6070 | 199.31 | 53900 | 1.25 | TF 108 | MY 132S6 | 121 |
| | 5.3 | 5440 | 178.64 | 55300 | 1.40 | TFF 108 | MY 132S6 | 122 |
| | 5.5 | 5210 | 254.40* | 55900 | 1.50 | TFA 108 | MY 100L4 | 123 |
| | 6.5 | 4410 | 215.37 | 57600 | 1.75 | TFAF 108 | MY 100L4 | 122 |
| | 7.0 | 4080 | 199.31 | 58300 | 1.90 | TF 108 | MY 100L4 | 121 |
| | 7.8 | 3660 | 178.64 | 59100 | 2.1 | TFF 108 | MY 100L4 | 122 |
| | 8.7 | 3300 | 161.28* | 59800 | 2.3 | | | |
| | 6.2 | 4580 | 223.88 | 29000 | 0.95 | TFA 98 | MY 100L4 | 119 |
| | 7.4 | 3890 | 189.92 | 31100 | 1.10 | TFAF 98 | MY 100L4 | 118 |
| | 8.0 | 3580 | 174.87 | 31900 | 1.20 | TF 98 | MY 100L4 | 117 |
| | | | | | | TFF 98 | MY 100L4 | 118 |
| | 9.0 | 3200 | 156.30 | 32800 | 1.35 | TFA 98 | MY 100L4 | 119 |
| | 10 | 2880 | 140.71 | 33600 | 1.50 | TFAF 98 | MY 100L4 | 118 |
| | 11 | 2610 | 127.42 | 34200 | 1.65 | TF 98 | MY 100L4 | 117 |
| | 12 | 2310 | 112.99 | 34800 | 1.85 | TFF 98 | MY 100L4 | 118 |
| | 14 | 2090 | 102.16 | 35200 | 2.1 | | | |
| | 16 | 1840 | 89.85 | 35700 | 2.3 | | | |
| | 10 | 2750 | 134.16 | 23900 | 1.10 | TFA 88 | MY 100L4 | 115 |
| | 11 | 2520 | 123.29 | 24700 | 1.20 | TFAF 88 | MY 100L4 | 114 |
| | 13 | 2240 | 109.49 | 25700 | 1.35 | TF 88 | MY 100L4 | 113 |
| | | | | | | TFF 88 | MY 100L4 | 114 |
| | 14 | 2000 | 97.89 | 26400 | 1.50 | TFA 88 | MY 100L4 | 115 |
| | 16 | 1800 | 88.01 | 26900 | 1.65 | TFAF 88 | MY 100L4 | 114 |
| | 18 | 1560 | 76.39 | 26300 | 1.90 | TF 88 | MY 100L4 | 113 |
| | 20 | 1400 | 68.40 | 25700 | 2.1 | TFF 88 | MY 100L4 | 114 |
| | 25 | 1160 | 56.75 | 24800 | 2.6 | | | |
| | 28 | 1030 | 50.36 | 24100 | 2.9 | | | |
| | 16 | 1750 | 85.52 | 13800 | 0.85 | TFA 78 | MY 100L4 | 111 |
| | 19 | 1540 | 75.02 | 15500 | 1.00 | TFAF 78 | MY 100L4 | 110 |
| | 21 | 1360 | 66.46 | 16600 | 1.10 | TF 78 | MY 100L4 | 109 |
| | | | | | | TFF 78 | MY 100L4 | 110 |
| | 24 | 1190 | 58.32 | 17500 | 1.25 | TFA 78 | MY 100L4 | 111 |
| | 25 | 1130 | 55.27 | 17800 | 1.35 | TFAF 78 | MY 100L4 | 110 |
| | 29 | 990 | 48.37 | 18300 | 1.50 | TF 78 | MY 100L4 | 109 |
| | 32 | 890 | 43.58 | 18700 | 1.70 | TFF 78 | MY 100L4 | 110 |
| | 37 | 780 | 38.23 | 19000 | 1.90 | | | |
| | 38 | 750 | 36.58 | 19100 | 1.50 | TFA 78 | MY 100L4 | 111 |
| | 44 | 645 | 31.51 | 19400 | 2.1 | TFAF 78 | MY 100L4 | 110 |
| | 49 | 590 | 28.75 | 19500 | 2.4 | TF 78 | MY 100L4 | 109 |
| | 55 | 520 | 25.50* | 19700 | 2.9 | TFF 78 | MY 100L4 | 110 |
| | 65 | 440 | 21.43 | 19800 | 3.4 | | | |
| | 32 | 880 | 43.20 | 9690 | 0.95 | TFA 68 | MY 100L4 | 107 |
| | 36 | 800 | 39.26 | 10500 | 0.95 | TFAF 68 | MY 100L4 | 106 |
| | 41 | 695 | 34.01 | 11300 | 1.05 | TF 68 | MY 100L4 | 105 |
| | | | | | TFF 68 | MY 100L4 | 106 | |
| 44 | 655 | 32.08 | 11600 | 1.25 | TFA 68 | MY 100L4 | 107 | |
| 51 | 560 | 27.41 | 12100 | 1.45 | TFAF 68 | MY 100L4 | 106 | |
| 56 | 515 | 25.13 | 12300 | 1.60 | TF 68 | MY 100L4 | 105 | |
| 63 | 450 | 22.05 | 12600 | 1.80 | TFF 68 | MY 100L4 | 106 | |
| 67 | 430 | 20.90* | 12700 | 1.90 | | | | |
| 77 | 375 | 18.29 | 12900 | 2.2 | | | | |
| 85 | 335 | 16.48 | 13000 | 2.4 | | | | |
| 97 | 295 | 14.46 | 13000 | 2.8 | | | | |


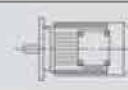
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|---------|-----------------|--------|--|---|----------|-----|
| 3.0 | 56 | 510 | 24.96 | 7440 | 1.15 | TFA 58 | MY 100L4 | 103 | |
| | 66 | 435 | 21.17 | 7340 | 1.40 | TFAF 58 | MY 100L4 | 102 | |
| | 73 | 390 | 19.11 | 7260 | 1.55 | TF 58 | MY 100L4 | 101 | |
| | 83 | 345 | 16.81 | 7140 | 1.75 | TFF 58 | MY 100L4 | 102 | |
| | 88 | 325 | 15.88 | 7080 | 1.85 | | | | |
| | 104 | 275 | 13.52 | 6890 | 2.2 | | | | |
| | 114 | 250 | 12.29 | 6780 | 2.4 | | | | |
| | 132 | 220 | 10.64 | 6590 | 2.8 | | | | |
| | 71 | 405 | 19.70 | 4750 | 1.00 | TFA 48 | MY 100L4 | 99 | |
| | 81 | 355 | 17.33 | 4760 | 1.15 | TFAF 48 | MY 100L4 | 98 | |
| | 86 | 335 | 16.36 | 4760 | 1.20 | TF 48 | MY 100L4 | 97 | |
| | 100 | 285 | 13.93 | 4740 | 1.40 | TFF 48 | MY 100L4 | 98 | |
| | 111 | 260 | 12.66 | 4700 | 1.55 | | | | |
| | 128 | 225 | 10.97 | 4640 | 1.80 | | | | |
| | 156 | 183 | 8.96 | 4370 | 1.80 | | | | |
| | 126 | 225 | 11.08 | 2320 | 0.85 | TFA 38 | MY 100L4 | 95 | |
| | 134 | 215 | 10.42 | 2350 | 0.85 | TFAF 38 | MY 100L4 | 94 | |
| | 156 | 184 | 8.97 | 2390 | 0.95 | TF 38 | MY 100L4 | 93 | |
| | 175 | 164 | 8.01 | 2410 | 1.05 | TFF 38 | MY 100L4 | 94 | |
| | 208 | 138 | 6.74 | 2290 | 1.00 | | | | |
| | 231 | 124 | 6.05 | 2300 | 1.10 | | | | |
| | 269 | 107 | 5.21 | 2290 | 1.15 | | | | |
| | 286 | 100 | 4.90 | 2280 | 1.20 | | | | |
| | 332 | 86 | 4.22 | 2250 | 1.25 | | | | |
| | 372 | 77 | 3.77 | 2220 | 1.35 | | | | |
| | 4.0 | 1.7 | 20800 | 845 | 90700 | 0.85 | TFA 158 / TRF98 | MY 112M4 | 133 |
| | | 1.9 | 18800 | 764 | 97800 | 0.95 | TFAF 158 / TRF98 | MY 112M4 | 133 |
| | | 2.1 | 16700 | 680 | 103900 | 1.10 | TF 158 / TRF98 | MY 112M4 | 133 |
| | | 2.5 | 14100 | 576 | 110100 | 1.30 | TFF 158 / TRF98 | MY 112M4 | 133 |
| | | 3.2 | 11000 | 446 | 115700 | 1.65 | | | |
| | | 4.7 | 7460 | 302 | 120000 | 2.4 | | | |
| | | 5.2 | 6720 | 273 | 120000 | 2.7 | | | |
| 6.1 | | 5660 | 232 | 120000 | 3.2 | | | | |
| 7.2 | | 4800 | 197 | 120000 | 3.8 | | | | |
| 2.6 | | 13800 | 549 | 87000 | 0.85 | TFA 128 / TRF78 | MY 112M4 | 133 | |
| 2.9 | | 12400 | 495 | 89700 | 0.95 | TFAF 128 / TRF78 | MY 112M4 | 133 | |
| 3.3 | | 10700 | 428 | 90000 | 1.10 | TF 128 / TRF78 | MY 112M4 | 133 | |
| 3.8 | | 9410 | 376 | 90000 | 1.30 | TFF 128 / TRF78 | MY 112M4 | 133 | |
| 4.3 | | 8350 | 333 | 48000 | 0.90 | TFA 108 / TRF78 | MY 112M4 | 133 | |
| 4.9 | | 7300 | 291 | 50800 | 1.05 | TFAF 108 / TRF78 | MY 112M4 | 133 | |
| 5.6 | | 6400 | 255 | 53100 | 1.20 | TF 108 / TRF78 | MY 112M4 | 133 | |
| | | | | | | TFF 108 / TRF78 | MY 112M4 | 133 | |
| 4.2 | | 9060 | 170.83 | 90000 | 1.30 | TFA 128 | MY 132ML8 | 127 | |
| 4.7 | | 8150 | 153.67* | 90000 | 1.45 | TFAF 128 | MY 132ML8 | 126 | |
| 5.7 | | 6650 | 125.37 | 90000 | 1.80 | TF 128 | MY 132ML8 | 125 | |
| | | | | | | TFF 128 | MY 132ML8 | 126 | |
| 5.6 | | 6840 | 254.40* | 52000 | 1.10 | TFA 108 | MY 112M4 | 123 | |
| 6.6 | | 5790 | 215.37 | 54500 | 1.35 | TFAF 108 | MY 112M4 | 122 | |
| 7.1 | | 5360 | 199.31 | 55500 | 1.45 | TF 108 | MY 112M4 | 121 | |
| 8.0 | | 4810 | 178.64 | 56700 | 1.60 | TFF 108 | MY 112M4 | 122 | |
| 8.8 | | 4340 | 161.28* | 57700 | 1.75 | | | | |
| 9.7 | | 3940 | 146.49 | 58500 | 1.95 | | | | |
| 11 | | 3500 | 129.97 | 59400 | 2.2 | | | | |
| 12 | | 3170 | 117.94 | 60100 | 2.4 | | | | |
| 14 | | 2730 | 101.38* | 60900 | 2.8 | | | | |


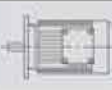
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|---|------|
| 4.0 | 8.1 | 4700 | 174.87 | 26600 | 0.90 | TFA 98 | MY 112M4 | 119 |
| | 9.1 | 4200 | 156.30 | 30200 | 1.00 | TFAF 98 | MY 112M4 | 118 |
| | 10 | 3780 | 140.71 | 31400 | 1.15 | TF 98 | MY 112M4 | 117 |
| | 11 | 3430 | 127.42 | 32300 | 1.25 | TFF 98 | MY 112M4 | 118 |
| | 13 | 3040 | 112.99 | 33200 | 1.40 | TFA 98 | MY 112M4 | 119 |
| | 14 | 2750 | 102.16 | 33900 | 1.55 | TFAF 98 | MY 112M4 | 118 |
| | 15 | 2620 | 97.58 | 34100 | 1.65 | TF 98 | MY 112M4 | 117 |
| | 16 | 2420 | 89.85 | 34600 | 1.80 | TFF 98 | MY 112M4 | 118 |
| | 18 | 2160 | 80.31 | 35100 | 2.0 | | | |
| | 20 | 1940 | 72.29 | 35500 | 2.2 | | | |
| | 22 | 1760 | 65.47 | 35800 | 2.4 | | | |
| | 13 | 2950 | 109.49 | 21700 | 1.00 | TFA 88 | MY 112M4 | 115 |
| | 15 | 2630 | 97.89 | 24300 | 1.15 | TFAF 88 | MY 112M4 | 114 |
| | 16 | 2370 | 88.01 | 24600 | 1.25 | TF 88 | MY 112M4 | 113 |
| | | | | | | TFF 88 | MY 112M4 | 114 |
| | 19 | 2050 | 76.39 | 24200 | 1.45 | TFA 88 | MY 112M4 | 115 |
| | 21 | 1840 | 68.40 | 23900 | 1.65 | TFAF 88 | MY 112M4 | 114 |
| | 25 | 1530 | 56.75 | 23200 | 1.95 | TF 88 | MY 112M4 | 113 |
| | 28 | 1350 | 50.36 | 22800 | 2.2 | TFF 88 | MY 112M4 | 114 |
| | 31 | 1220 | 45.28 | 22300 | 2.3 | | | |
| | 21 | 1790 | 66.46 | 13400 | 0.85 | TFA 78 | MY 112M4 | 111 |
| | 24 | 1570 | 58.32 | 15200 | 0.95 | TFAF 78 | MY 112M4 | 110 |
| | 26 | 1490 | 55.27 | 15800 | 1.00 | TF 78 | MY 112M4 | 109 |
| | 29 | 1300 | 48.37 | 16900 | 1.15 | TFF 78 | MY 112M4 | 110 |
| | 33 | 1170 | 43.58 | 17600 | 1.30 | TFA 78 | MY 112M4 | 111 |
| | 37 | 1030 | 38.23 | 18200 | 1.45 | TFAF 78 | MY 112M4 | 110 |
| | 42 | 910 | 33.74 | 18600 | 1.65 | TF 78 | MY 112M4 | 109 |
| | 47 | 800 | 29.91 | 19000 | 1.85 | TFF 78 | MY 112M4 | 110 |
| | 56 | 685 | 25.54 | 19300 | 2.1 | | | |
| | 45 | 850 | 31.51 | 18800 | 1.65 | TFA 78 | MY 112M4 | 111 |
| | 49 | 775 | 28.75 | 19100 | 1.85 | TFAF 78 | MY 112M4 | 110 |
| | 56 | 685 | 25.50* | 19300 | 2.2 | TF 78 | MY 112M4 | 109 |
| | 66 | 575 | 21.43 | 19500 | 2.6 | TFF 78 | MY 112M4 | 110 |
| | 72 | 530 | 19.70 | 19600 | 2.8 | | | |
| | 52 | 735 | 27.41 | 11000 | 1.10 | TFA 68 | MY 112M4 | 107 |
| | 57 | 675 | 25.13 | 11400 | 1.20 | TFAF 68 | MY 112M4 | 106 |
| | 64 | 595 | 22.05 | 11900 | 1.40 | TF 68 | MY 112M4 | 105 |
| | 68 | 560 | 20.90* | 12100 | 1.45 | TFF 68 | MY 112M4 | 106 |
| | 78 | 490 | 18.29 | 12400 | 1.65 | | | |
| | 86 | 445 | 16.48 | 12700 | 1.85 | | | |
| | 98 | 390 | 14.46 | 12900 | 2.1 | | | |
| | 111 | 345 | 12.76 | 13000 | 2.4 | | | |
| | 126 | 305 | 11.31 | 13000 | 2.7 | | | |
| | 147 | 260 | 9.66 | 13000 | 3.2 | | | |
| | 156 | 245 | 9.08 | 13000 | 2.2 | | | |
| | 165 | 230 | 8.60 | 12800 | 2.5 | | | |
| 189 | 205 | 7.53 | 12400 | 3.0 | | | | |
| 209 | 183 | 6.78 | 12100 | 3.4 | | | | |
| 239 | 160 | 5.95 | 11700 | 3.8 | | | | |
| 270 | 141 | 5.25 | 11400 | 4.2 | | | | |
| 305 | 125 | 4.66 | 11000 | 4.5 | | | | |
| 357 | 107 | 3.97 | 10600 | 4.7 | | | | |
| 67 | 570 | 21.17 | 6490 | 1.05 | TFA 58 | MY 112M4 | 103 | |
| 74 | 515 | 19.11 | 6490 | 1.15 | TFAF 58 | MY 112M4 | 102 | |
| 84 | 450 | 16.81 | 6450 | 1.35 | TF 58 | MY 112M4 | 101 | |
| 89 | 425 | 15.88 | 6430 | 1.40 | TFF 58 | MY 112M4 | 102 | |


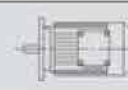
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---|------|
| 4.0 | 105 | 365 | 13.52 | 6340 | 1.65 | TFA 58 | MY 112M4 | 103 |
| | 116 | 330 | 12.29 | 6270 | 1.80 | TFAF 58 | MY 112M4 | 102 |
| | 133 | 285 | 10.64 | 6150 | 2.1 | TF 58 | MY 112M4 | 101 |
| | 153 | 250 | 9.31 | 5850 | 1.70 | TFF 58 | MY 112M4 | 102 |
| | 173 | 220 | 8.19 | 5730 | 1.90 | | | |
| | 184 | 210 | 7.73 | 5680 | 2.0 | | | |
| | 216 | 177 | 6.58 | 5510 | 2.4 | | | |
| | 237 | 161 | 5.98 | 5410 | 2.6 | | | |
| | 274 | 139 | 5.18 | 5250 | 3.0 | | | |
| 5.5 | 2.5 | 19400 | 576 | 95800 | 0.95 | TFA 158 / TRF98 | MY 132S4 | 133 |
| | 2.8 | 16900 | 503 | 103400 | 1.05 | TFAF 158 / TRF98 | MY 132S4 | 133 |
| | 3.2 | 15100 | 446 | 107800 | 1.20 | TF 158 / TRF98 | MY 132S4 | 133 |
| | 4.1 | 11800 | 353 | 114400 | 1.50 | TFF 158 / TRF98 | MY 132S4 | 133 |
| | 4.7 | 10300 | 302 | 116900 | 1.75 | | | |
| | 5.2 | 9250 | 273 | 118300 | 1.95 | | | |
| | 6.2 | 7810 | 232 | 120000 | 2.3 | | | |
| | 7.1 | 6790 | 202 | 120000 | 2.7 | | | |
| | 7.3 | 6620 | 197 | 120000 | 2.7 | | | |
| | 3.4 | 14200 | 418 | 86100 | 0.85 | TFA 128 / TRF88 | MY 132S4 | 133 |
| | 3.8 | 12700 | 374 | 89000 | 0.95 | TFAF 128 / TRF88 | MY 132S4 | 133 |
| | 4.6 | 10600 | 312 | 90000 | 1.15 | TF 128 / TRF88 | MY 132S4 | 133 |
| | 4.9 | 9950 | 293 | 90000 | 1.20 | TFF 128 / TRF88 | MY 132S4 | 133 |
| | 5.5 | 8780 | 259 | 90000 | 1.35 | | | |
| | 6.4 | 7580 | 223 | 90000 | 1.60 | | | |
| | 3.3 | 14700 | 428 | 85200 | 0.80 | TFA 128 / TRF78 | MY 132S4 | 133 |
| | 3.8 | 12900 | 376 | 88700 | 0.95 | TFAF 128 / TRF78 | MY 132S4 | 133 |
| | | | | | | TF 128 / TRF78 | MY 132S4 | 133 |
| | | | | | | TFF 128 / TRF78 | MY 132S4 | 133 |
| | 2.6 | 19800 | 267.43 | 94600 | 0.90 | TFA 158 | MY 160M8 | 131 |
| | 3.3 | 16100 | 217.62* | 105500 | 1.10 | TFAF 158 | MY 160M8 | 130 |
| | 4.0 | 13200 | 178.20* | 111900 | 1.35 | TF 158 | MY 160M8 | 129 |
| | 4.4 | 12100 | 162.96 | 114000 | 1.50 | TFF 158 | MY 160M8 | 130 |
| | 5.0 | 10500 | 141.80* | 116600 | 1.70 | | | |
| | 5.7 | 9260 | 125.14 | 118300 | 1.95 | | | |
| | 6.5 | 8030 | 108.49 | 119700 | 2.2 | | | |
| | 7.4 | 7140 | 96.53* | 120000 | 2.5 | | | |
| | 8.3 | 6350 | 85.80* | 120000 | 2.8 | | | |
| | 9.1 | 5800 | 78.46 | 120000 | 3.1 | | | |
| | 10 | 5050 | 68.28* | 120000 | 3.6 | | | |
| | 4.2 | 12600 | 170.83 | 89200 | 0.95 | TFA 128 | MY 160M8 | 127 |
| | 4.6 | 11400 | 153.67* | 90000 | 1.05 | TFAF 128 | MY 160M8 | 126 |
| | 5.7 | 9270 | 125.37 | 90000 | 1.30 | TF 128 | MY 160M8 | 125 |
| | 6.2 | 8460 | 114.34 | 90000 | 1.40 | TFF 128 | MY 160M8 | 126 |
| | 6.6 | 7910 | 215.37 | 49200 | 0.95 | TFA 108 | MY 132S4 | 123 |
| | 7.2 | 7320 | 199.31 | 50800 | 1.05 | TFAF 108 | MY 132S4 | 122 |
| | 8.0 | 6560 | 178.64 | 52700 | 1.15 | TF 108 | MY 132S4 | 121 |
| | 8.9 | 5920 | 161.28* | 54200 | 1.30 | TFF 108 | MY 132S4 | 122 |
| | 9.8 | 5380 | 146.49 | 55500 | 1.45 | TFA 108 | MY 132S4 | 123 |
| | 11 | 4770 | 129.97 | 56800 | 1.60 | TFAF 108 | MY 132S4 | 122 |
| | 12 | 4330 | 117.94 | 57700 | 1.75 | TF 108 | MY 132S4 | 121 |
| | 14 | 3720 | 101.38* | 59000 | 2.1 | TFF 108 | MY 132S4 | 122 |
| 15 | 3400 | 92.47* | 59600 | 2.3 | | | | |
| 16 | 3250 | 88.49 | 59900 | 2.4 | | | | |
| 17 | 3080 | 83.99 | 60200 | 2.5 | | | | |


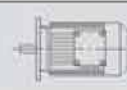
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|---|------|
| 5.5 | 11 | 4680 | 127.42 | 27400 | 0.90 | TFA 98 | MY 132S4 | 119 |
| | 13 | 4150 | 112.99 | 30300 | 1.05 | TFAF 98 | MY 132S4 | 118 |
| | 14 | 3750 | 102.16 | 31400 | 1.15 | TF 98 | MY 132S4 | 117 |
| | | | | | | TFF 98 | MY 132S4 | 118 |
| | 15 | 3580 | 97.58 | 31900 | 1.20 | TFA 98 | MY 132S4 | 119 |
| | 16 | 3300 | 89.85 | 32600 | 1.30 | TFAF 98 | MY 132S4 | 118 |
| | 17 | 3180 | 86.59 | 32900 | 1.35 | TF 98 | MY 132S4 | 117 |
| | 18 | 2950 | 80.31 | 33400 | 1.45 | TFF 98 | MY 132S4 | 118 |
| | 19 | 2780 | 75.63 | 33800 | 1.55 | | | |
| | 20 | 2660 | 72.29 | 34100 | 1.60 | | | |
| | 22 | 2400 | 65.47 | 34600 | 1.80 | | | |
| | 25 | 2130 | 58.06 | 34500 | 2.0 | | | |
| | 27 | 1930 | 52.49 | 33900 | 2.2 | | | |
| | 16 | 3230 | 88.01 | 5760 | 0.95 | TFA 88 | MY 132S4 | 115 |
| | 19 | 2810 | 76.39 | 21200 | 1.05 | TFAF 88 | MY 132S4 | 114 |
| | 21 | 2510 | 68.40 | 21200 | 1.20 | TF 88 | MY 132S4 | 113 |
| | 25 | 2080 | 56.75 | 21000 | 1.45 | TFF 88 | MY 132S4 | 114 |
| | 28 | 1850 | 50.36 | 20800 | 1.60 | TFA 88 | MY 132S4 | 115 |
| | 32 | 1660 | 45.28 | 20500 | 1.70 | TFAF 88 | MY 132S4 | 114 |
| | 36 | 1440 | 39.30 | 20100 | 1.90 | TF 88 | MY 132S4 | 113 |
| | 41 | 1290 | 35.19 | 19800 | 2.0 | TFF 88 | MY 132S4 | 114 |
| | 49 | 1070 | 29.20 | 19100 | 2.3 | | | |
| | 42 | 1250 | 33.92 | 19700 | 2.1 | TFA 88 | MY 132S4 | 115 |
| | 50 | 1060 | 28.78 | 19100 | 2.3 | TFAF 88 | MY 132S4 | 114 |
| | 54 | 970 | 26.50 | 18800 | 3.1 | TF 88 | MY 132S4 | 113 |
| | 60 | 870 | 23.68 | 18400 | 3.5 | TFF 88 | MY 132S4 | 114 |
| | 30 | 1780 | 48.37 | 13500 | 0.85 | TFA 78 | MY 132S4 | 111 |
| | 33 | 1600 | 43.58 | 15000 | 0.95 | TFAF 78 | MY 132S4 | 110 |
| | 37 | 1400 | 38.23 | 16300 | 1.05 | TF 78 | MY 132S4 | 109 |
| | 42 | 1240 | 33.74 | 17300 | 1.20 | TFF 78 | MY 132S4 | 110 |
| | 48 | 1100 | 29.91 | 17900 | 1.35 | | | |
| | 56 | 940 | 25.54 | 18500 | 1.55 | | | |
| | 56 | 940 | 25.50* | 18500 | 1.60 | TFA 78 | MY 132S4 | 111 |
| | 67 | 785 | 21.43 | 19000 | 1.90 | TFAF 78 | MY 132S4 | 110 |
| | 73 | 725 | 19.70 | 19200 | 2.1 | TF 78 | MY 132S4 | 109 |
| | 82 | 645 | 17.49 | 19400 | 2.3 | TFF 78 | MY 132S4 | 110 |
| | 91 | 575 | 15.64* | 19600 | 2.6 | | | |
| | 102 | 515 | 14.06 | 19300 | 2.9 | | | |
| | 117 | 450 | 12.20 | 18600 | 3.4 | | | |
| | 65 | 810 | 22.05 | 10400 | 1.00 | TFA 68 | MY 132S4 | 107 |
| | 68 | 770 | 20.90* | 10800 | 1.05 | TFAF 68 | MY 132S4 | 106 |
| | 78 | 670 | 18.29 | 11500 | 1.20 | TF 68 | MY 132S4 | 105 |
| | 87 | 605 | 16.48 | 11900 | 1.35 | TFF 68 | MY 132S4 | 106 |
| | 99 | 530 | 14.46 | 12300 | 1.55 | | | |
| 112 | 470 | 12.76 | 12500 | 1.75 | | | | |
| 126 | 415 | 11.31 | 12800 | 1.95 | | | | |
| 148 | 355 | 9.66 | 12900 | 2.3 | | | | |
| 158 | 335 | 9.08 | 12400 | 1.60 | | | | |
| 166 | 315 | 8.60 | 12300 | 1.80 | | | | |
| 190 | 275 | 7.53 | 12000 | 2.2 | | | | |
| 211 | 250 | 6.78 | 11700 | 2.5 | | | | |
| 240 | 220 | 5.95 | 11400 | 2.8 | | | | |
| 272 | 193 | 5.25 | 11100 | 3.1 | | | | |
| 307 | 171 | 4.66 | 10700 | 3.3 | | | | |
| 360 | 146 | 3.97 | 10300 | 3.4 | | | | |


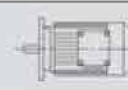
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---|------|
| 5.5 | 85 | 620 | 16.81 | 5450 | 0.95 | TFA 58 | MY 132S4 | 103 |
| | 90 | 585 | 15.88 | 5480 | 1.05 | TFAF 58 | MY 132S4 | 102 |
| | 106 | 495 | 13.52 | 5530 | 1.20 | TF 58 | MY 132S4 | 101 |
| | 116 | 450 | 12.29 | 5530 | 1.35 | TFF 58 | MY 132S4 | 102 |
| | 134 | 390 | 10.64 | 5510 | 1.55 | | | |
| | 175 | 300 | 8.19 | 5190 | 1.40 | | | |
| | 185 | 285 | 7.73 | 5160 | 1.50 | | | |
| | 217 | 240 | 6.58 | 5070 | 1.75 | | | |
| | 239 | 220 | 5.98 | 5010 | 1.90 | | | |
| | 276 | 190 | 5.18 | 4900 | 2.2 | | | |
| 7.5 | 4.6 | 14500 | 312 | 85500 | 0.85 | TFA 128 / TRF88 | MY 132M4 | 133 |
| | 4.9 | 13600 | 293 | 87300 | 0.90 | TFAF 128 / TRF88 | MY 132M4 | 133 |
| | 5.5 | 12000 | 259 | 90000 | 1.00 | TF 128 / TRF88 | MY 132M4 | 133 |
| | 6.4 | 10400 | 223 | 90000 | 1.15 | TFF 128 / TRF88 | MY 132M4 | 133 |
| | 7.2 | 9190 | 198 | 90000 | 1.30 | | | |
| | 3.3 | 21600 | 217.62* | 87600 | 0.85 | TFA 158 | MY 160L8 | 131 |
| | 4.0 | 17700 | 178.20* | 101100 | 1.00 | TFAF 158 | MY 160L8 | 130 |
| | 4.4 | 16200 | 162.96 | 105200 | 1.10 | TF 158 | MY 160L8 | 129 |
| | 5.1 | 14100 | 141.80* | 110100 | 1.30 | TFF 158 | MY 160L8 | 130 |
| | 5.8 | 12400 | 125.14 | 113300 | 1.45 | | | |
| | 6.6 | 10800 | 108.49 | 116100 | 1.65 | | | |
| | 7.5 | 9600 | 96.53* | 117800 | 1.85 | | | |
| | 8.4 | 8530 | 85.80* | 119200 | 2.1 | | | |
| | 9.2 | 7810 | 78.46 | 120000 | 2.3 | | | |
| | 11 | 6790 | 68.28* | 120000 | 2.7 | | | |
| | 12 | 5990 | 60.25 | 120000 | 3.0 | | | |
| | 14 | 5200 | 52.24 | 120000 | 3.5 | | | |
| | 15 | 4620 | 46.48* | 120000 | 3.9 | | | |
| | 18 | 3980 | 40.06 | 120000 | 4.5 | | | |
| | 3.6 | 20000 | 267.43 | 94000 | 0.90 | TFA 158 | MY 160M6 | 131 |
| | 4.4 | 16200 | 217.62* | 105100 | 1.10 | TFAF 158 | MY 160M6 | 130 |
| | 5.4 | 13300 | 178.20* | 111700 | 1.35 | TF 158 | MY 160M6 | 129 |
| | 5.9 | 12200 | 162.96 | 113800 | 1.50 | TFF 158 | MY 160M6 | 130 |
| | 6.8 | 10600 | 141.80* | 116400 | 1.70 | | | |
| | 7.7 | 9340 | 125.14 | 118200 | 1.95 | | | |
| | 8.8 | 8090 | 108.49 | 119700 | 2.2 | | | |
| | 10 | 7200 | 96.53* | 120000 | 2.5 | | | |
| | 11 | 6400 | 85.80* | 120000 | 2.8 | | | |
| | 12 | 5850 | 78.46 | 120000 | 3.1 | | | |
| | 14 | 5090 | 68.28* | 120000 | 3.5 | | | |
| | 16 | 4500 | 60.25 | 120000 | 4.0 | | | |
| | 18 | 3900 | 52.24 | 119300 | 4.6 | | | |
| | 5.7 | 12500 | 125.37 | 89500 | 0.95 | TFA 128 | MY 160L8 | 127 |
| | 6.3 | 11400 | 114.34 | 90000 | 1.05 | TFAF 128 | MY 160L8 | 126 |
| | 7.3 | 9840 | 98.95 | 90000 | 1.20 | TF 128 | MY 160L8 | 125 |
| | 8.2 | 8690 | 87.31* | 90000 | 1.40 | TFF 128 | MY 160L8 | 126 |
| | 5.6 | 12700 | 170.83 | 89000 | 0.95 | TFA 128 | MY 160M6 | 127 |
| | 6.2 | 11500 | 153.67* | 90000 | 1.05 | TFAF 128 | MY 160M6 | 126 |
| | 7.7 | 9350 | 125.37 | 90000 | 1.30 | TF 128 | MY 160M6 | 125 |
| | 8.4 | 8530 | 114.34 | 90000 | 1.40 | TFF 128 | MY 160M6 | 126 |
| | 8.4 | 8560 | 170.83 | 90000 | 1.40 | TFA 128 | MY 132M4 | 127 |
| | 9.3 | 7700 | 153.67* | 90000 | 1.55 | TFAF 128 | MY 132M4 | 126 |
| | 11 | 6280 | 125.37 | 90000 | 1.90 | TF 128 | MY 132M4 | 125 |
| | | | | | | TFF 128 | MY 132M4 | 126 |


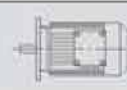
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|---------|--|---|------|
| 7.5 | 8.0 | 8950 | 178.64 | 46300 | 0.85 | TFA 108 | MY 132M4 | 123 |
| | 8.9 | 8080 | 161.26* | 48700 | 0.95 | TFAF 108 | MY 132M4 | 122 |
| | 9.8 | 7340 | 146.49 | 50700 | 1.05 | TF 108 | MY 132M4 | 121 |
| | 11 | 6510 | 129.97 | 52800 | 1.20 | TFF 108 | MY 132M4 | 122 |
| | 12 | 5910 | 117.94 | 54200 | 1.30 | TFA 108 | MY 132M4 | 123 |
| | 14 | 5080 | 101.38* | 56100 | 1.50 | TFAF 108 | MY 132M4 | 122 |
| | 15 | 4630 | 92.47* | 57100 | 1.65 | TF 108 | MY 132M4 | 121 |
| | 16 | 4430 | 88.49 | 57500 | 1.75 | TFF 108 | MY 132M4 | 122 |
| | 17 | 4210 | 83.99 | 58000 | 1.85 | | | |
| | 19 | 3730 | 74.52 | 59000 | 2.1 | | | |
| | 21 | 3390 | 67.62 | 59600 | 2.3 | | | |
| | 15 | 4890 | 97.58 | 19300 | 0.90 | TFA 98 | MY 132M4 | 119 |
| | 16 | 4500 | 89.85 | 29300 | 0.95 | TFAF 98 | MY 132M4 | 118 |
| | 17 | 4340 | 86.59 | 29800 | 1.00 | TF 98 | MY 132M4 | 117 |
| | 18 | 4020 | 80.31 | 30700 | 1.05 | TFF 98 | MY 132M4 | 118 |
| | 19 | 3790 | 75.63 | 31300 | 1.15 | | | |
| | 20 | 3620 | 72.29 | 31800 | 1.20 | | | |
| | 22 | 3280 | 65.47 | 32200 | 1.30 | TFA 98 | MY 132M4 | 119 |
| | 25 | 2910 | 58.06 | 31800 | 1.50 | TFAF 98 | MY 132M4 | 118 |
| | 27 | 2630 | 52.49 | 31400 | 1.65 | TF 98 | MY 132M4 | 117 |
| | 32 | 2230 | 44.49 | 30600 | 1.95 | TFF 98 | MY 132M4 | 118 |
| | 37 | 1950 | 38.86 | 29900 | 2.2 | | | |
| | 44 | 1630 | 32.50 | 28900 | 2.6 | | | |
| | 33 | 2170 | 43.28 | 30500 | 1.40 | TFA 98 | MY 132M4 | 119 |
| | 39 | 1840 | 36.64 | 29600 | 1.65 | TFAF 98 | MY 132M4 | 118 |
| | 42 | 1700 | 33.91 | 29200 | 2.5 | TF 98 | MY 132M4 | 117 |
| | 47 | 1520 | 30.39 | 28500 | 2.8 | TFF 98 | MY 132M4 | 118 |
| | 25 | 2840 | 56.75 | 18100 | 1.05 | TFA 88 | MY 132M4 | 115 |
| | 28 | 2520 | 50.36 | 18200 | 1.15 | TFAF 88 | MY 132M4 | 114 |
| | 32 | 2270 | 45.28 | 18200 | 1.25 | TF 88 | MY 132M4 | 113 |
| | 36 | 1970 | 39.30 | 18100 | 1.40 | TFF 88 | MY 132M4 | 114 |
| | 41 | 1760 | 35.19 | 18000 | 1.50 | | | |
| | 49 | 1460 | 29.20 | 17600 | 1.70 | | | |
| | 50 | 1440 | 28.78 | 17600 | 1.70 | TFA 88 | MY 132M4 | 115 |
| | 54 | 1330 | 26.50 | 17400 | 2.3 | TFAF 88 | MY 132M4 | 114 |
| | 60 | 1190 | 23.68 | 17100 | 2.5 | TF 88 | MY 132M4 | 113 |
| | 67 | 1070 | 21.32* | 16800 | 2.8 | TFF 88 | MY 132M4 | 114 |
| | 74 | 970 | 19.31 | 16500 | 3.1 | | | |
| | 84 | 860 | 17.12 | 16200 | 3.5 | | | |
| | 92 | 775 | 15.48 | 15900 | 3.9 | | | |
| | 42 | 1690 | 33.74 | 14300 | 0.90 | TFA 78 | MY 132M4 | 111 |
| | 48 | 1500 | 29.91 | 15700 | 1.00 | TFAF 78 | MY 132M4 | 110 |
| | 56 | 1280 | 25.54 | 17000 | 1.15 | TF 78 | MY 132M4 | 109 |
| | | | | | | TFF 78 | MY 132M4 | 110 |
| 56 | 1280 | 25.50* | 17100 | 1.15 | TFA 78 | MY 132M4 | 111 | |
| 67 | 1070 | 21.43 | 18000 | 1.40 | TFAF 78 | MY 132M4 | 110 | |
| 73 | 990 | 19.70 | 18400 | 1.50 | TF 78 | MY 132M4 | 109 | |
| 82 | 880 | 17.49 | 18800 | 1.70 | TFF 78 | MY 132M4 | 110 | |
| 91 | 785 | 15.64* | 19000 | 1.90 | | | | |
| 102 | 705 | 14.06 | 18600 | 2.1 | | | | |
| 117 | 610 | 12.20 | 18000 | 2.5 | | | | |
| 131 | 545 | 10.93 | 17600 | 2.7 | | | | |
| 154 | 465 | 9.30 | 16500 | 2.3 | | | | |
| 173 | 415 | 8.26 | 16100 | 2.6 | | | | |
| 194 | 370 | 7.39 | 15700 | 2.9 | | | | |


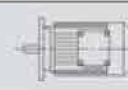
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|---------|-----------------|---------|--|---|-----------|-----|
| 7.5 | 215 | 335 | 6.64 | 15300 | 3.3 | TFA 78 | MY 132M4 | 111 | |
| | 248 | 290 | 5.76 | 14800 | 3.7 | TFAF 78 | MY 132M4 | 110 | |
| | 277 | 260 | 5.16 | 14500 | 4.2 | TF 78 | MY 132M4 | 109 | |
| | 334 | 215 | 4.28 | 13800 | 4.7 | TFF 78 | MY 132M4 | 110 | |
| 9.2 | 4.1 | 19900 | 353 | 94200 | 0.90 | TFA 158 / TRF98 | MY 132ML4 | 133 | |
| | 4.8 | 17200 | 302 | 102700 | 1.05 | TFAF 158 / TRF98 | MY 132ML4 | 133 | |
| | 5.3 | 15500 | 273 | 107000 | 1.15 | TF 158 / TRF98 | MY 132ML4 | 133 | |
| | 6.2 | 13100 | 232 | 112100 | 1.35 | TFF 158 / TRF98 | MY 132ML4 | 133 | |
| | 7.1 | 11400 | 202 | 115100 | 1.60 | | | | |
| | 7.3 | 11100 | 197 | 115600 | 1.60 | | | | |
| | 5.6 | 14700 | 259 | 85200 | 0.80 | TFA 128 / TRF88 | MY 132ML4 | 133 | |
| | 6.5 | 12700 | 223 | 89100 | 0.95 | TFAF 128 / TRF88 | MY 132ML4 | 133 | |
| | 7.3 | 11200 | 198 | 90000 | 1.05 | TF 128 / TRF88 | MY 132ML4 | 133 | |
| | | | | | | | TFF 128 / TRF88 | MY 132ML4 | 133 |
| | 8.4 | 10400 | 170.83 | 90000 | 1.15 | TFA 128 | MY 132ML4 | 127 | |
| | 9.4 | 9380 | 153.67* | 90000 | 1.30 | TFAF 128 | MY 132ML4 | 126 | |
| | 11 | 7650 | 125.37 | 90000 | 1.55 | TF 128 | MY 132ML4 | 125 | |
| | 13 | 6980 | 114.34 | 90000 | 1.70 | TFF 128 | MY 132ML4 | 126 | |
| | 15 | 6040 | 98.95 | 90000 | 2.0 | | | | |
| | 9.8 | 8940 | 146.49 | 46300 | 0.85 | TFA 108 | MY 132ML4 | 123 | |
| | 11 | 7930 | 129.97 | 49100 | 0.95 | TFAF 108 | MY 132ML4 | 122 | |
| | 12 | 7200 | 117.94 | 51100 | 1.05 | TF 108 | MY 132ML4 | 121 | |
| | 14 | 6180 | 101.38* | 53600 | 1.25 | TFF 108 | MY 132ML4 | 122 | |
| | 16 | 5640 | 92.47* | 54900 | 1.35 | TFA 108 | MY 132ML4 | 123 | |
| | 17 | 5120 | 83.99 | 56000 | 1.50 | TFAF 108 | MY 132ML4 | 122 | |
| | 19 | 4550 | 74.52 | 57300 | 1.70 | TF 108 | MY 132ML4 | 121 | |
| | 21 | 4130 | 67.62 | 58200 | 1.85 | TFF 108 | MY 132ML4 | 122 | |
| | 25 | 3550 | 58.12* | 58300 | 2.2 | | | | |
| | 28 | 3100 | 50.73 | 56800 | 2.5 | | | | |
| | 18 | 4900 | 80.31 | 18700 | 0.90 | TFA 98 | MY 132ML4 | 119 | |
| | 19 | 4610 | 75.63 | 28900 | 0.95 | TFAF 98 | MY 132ML4 | 118 | |
| | 20 | 4410 | 72.29 | 29600 | 0.95 | TF 98 | MY 132ML4 | 117 | |
| | 22 | 3990 | 65.47 | 29600 | 1.10 | TFF 98 | MY 132ML4 | 118 | |
| | 25 | 3540 | 58.06 | 29500 | 1.20 | | | | |
| | 27 | 3200 | 52.49 | 29300 | 1.35 | TFA 98 | MY 132ML4 | 119 | |
| | 32 | 2710 | 44.49 | 28800 | 1.60 | TFAF 98 | MY 132ML4 | 118 | |
| | 37 | 2370 | 38.86 | 28400 | 1.80 | TF 98 | MY 132ML4 | 117 | |
| | 44 | 1980 | 32.50 | 27600 | 2.2 | TFF 98 | MY 132ML4 | 118 | |
| | 42 | 2070 | 33.91 | 27800 | 2.1 | TFA 98 | MY 132ML4 | 119 | |
| | 47 | 1850 | 30.39 | 27300 | 2.3 | TFAF 98 | MY 132ML4 | 118 | |
| | 52 | 1670 | 27.44* | 26800 | 2.6 | TF 98 | MY 132ML4 | 117 | |
| | 58 | 1520 | 24.92 | 26300 | 2.8 | TFF 98 | MY 132ML4 | 118 | |
| | 29 | 3070 | 50.36 | 16000 | 0.95 | TFA 88 | MY 132ML4 | 115 | |
| | 32 | 2760 | 45.28 | 16200 | 1.00 | TFAF 88 | MY 132ML4 | 114 | |
| | 37 | 2400 | 39.30 | 16400 | 1.15 | TF 88 | MY 132ML4 | 113 | |
| | 41 | 2150 | 35.19 | 16400 | 1.20 | TFF 88 | MY 132ML4 | 114 | |
| 49 | 1780 | 29.20 | 16300 | 1.40 | | | | | |
| 54 | 1620 | 26.50 | 16200 | 1.85 | TFA 88 | MY 132ML4 | 115 | | |
| 61 | 1440 | 23.68 | 16100 | 2.1 | TFAF 88 | MY 132ML4 | 114 | | |
| 68 | 1300 | 21.32* | 15900 | 2.3 | TF 88 | MY 132ML4 | 113 | | |
| 75 | 1180 | 19.31 | 15700 | 2.6 | TFF 88 | MY 132ML4 | 114 | | |
| 84 | 1040 | 17.12 | 15400 | 2.9 | | | | | |
| 93 | 940 | 15.48 | 15200 | 3.2 | | | | | |
| 110 | 800 | 13.12* | 14700 | 3.8 | | | | | |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|---------|-----------------|-------|--|---|----------|-----|
| 9.2 | 73 | 1200 | 19.70 | 17400 | 1.25 | TFA 78 | MY 132ML4 | 111 | |
| | 82 | 1070 | 17.49 | 18000 | 1.40 | TFAF 78 | MY 132ML4 | 110 | |
| | 92 | 950 | 15.64* | 18300 | 1.55 | TF 78 | MY 132ML4 | 109 | |
| | 102 | 860 | 14.06 | 18000 | 1.75 | TFF 78 | MY 132ML4 | 110 | |
| | 118 | 745 | 12.20 | 17500 | 2.0 | | | | |
| | 132 | 665 | 10.93 | 17100 | 2.3 | | | | |
| | 155 | 570 | 9.30 | 16000 | 1.90 | | | | |
| | 174 | 505 | 8.26 | 15600 | 2.1 | | | | |
| | 195 | 450 | 7.39 | 15300 | 2.4 | | | | |
| | 217 | 405 | 6.64 | 15000 | 2.7 | | | | |
| | 250 | 350 | 5.76 | 14500 | 3.1 | | | | |
| | 279 | 315 | 5.16 | 14200 | 3.4 | | | | |
| | 336 | 260 | 4.28 | 13600 | 3.9 | | | | |
| 11.0 | 4.8 | 20600 | 302 | 91800 | 0.90 | TFA 158 / TRF98 | MY 160M4 | 133 | |
| | 5.3 | 18600 | 273 | 98600 | 0.95 | TFAF 158 / TRF98 | MY 160M4 | 133 | |
| | 6.2 | 15700 | 232 | 106400 | 1.15 | TF 158 / TRF98 | MY 160M4 | 133 | |
| | 7.1 | 13700 | 202 | 110900 | 1.30 | TFF 158 / TRF98 | MY 160M4 | 133 | |
| | 7.3 | 13300 | 197 | 111700 | 1.35 | | | | |
| | 6.5 | 15200 | 223 | 84100 | 0.80 | TFA 128 / TRF88 | MY 160M4 | 133 | |
| | 7.3 | 13400 | 198 | 87700 | 0.90 | TFAF 128 / TRF88 | MY 160M4 | 133 | |
| | 8.7 | 11300 | 166 | 90000 | 1.05 | TF 128 / TRF88 | MY 160M4 | 133 | |
| | | | | | | | TFF 128 / TRF88 | MY 160M4 | 133 |
| | 5.1 | 20700 | 141.80* | 91300 | 0.85 | TFA 158 | MY 180L8 | 131 | |
| | 5.8 | 18300 | 125.14 | 99500 | 1.00 | TFAF 158 | MY 180L8 | 130 | |
| | 6.6 | 15800 | 108.49 | 106100 | 1.15 | TF 158 | MY 180L8 | 129 | |
| | 7.5 | 14100 | 96.53* | 110100 | 1.30 | TFF 158 | MY 180L8 | 130 | |
| | 5.4 | 19500 | 178.20* | 95500 | 0.90 | TFA 158 | MY 160L6 | 131 | |
| | 5.9 | 17800 | 162.96 | 100800 | 1.00 | TFAF 158 | MY 160L6 | 130 | |
| | 6.8 | 15500 | 141.80* | 106900 | 1.15 | TF 158 | MY 160L6 | 129 | |
| | 7.7 | 13700 | 125.14 | 110900 | 1.30 | TFF 158 | MY 160L6 | 130 | |
| | 8.8 | 11900 | 108.49 | 114300 | 1.50 | | | | |
| | 10 | 10600 | 96.53* | 116400 | 1.70 | | | | |
| | 11 | 9390 | 85.80* | 118100 | 1.90 | | | | |
| | 12 | 8590 | 78.46 | 119100 | 2.1 | | | | |
| | 5.4 | 19500 | 267.43 | 95500 | 0.90 | TFA 158 | MY 160M4 | 131 | |
| | 6.6 | 15900 | 217.62* | 106000 | 1.15 | TFAF 158 | MY 160M4 | 130 | |
| | 8.1 | 13000 | 178.20* | 112300 | 1.40 | TF 158 | MY 160M4 | 129 | |
| | 8.8 | 11900 | 162.96 | 114300 | 1.50 | TFF 158 | MY 160M4 | 130 | |
| | 10 | 10300 | 141.80* | 116800 | 1.75 | | | | |
| | 12 | 9130 | 125.14 | 118400 | 1.95 | | | | |
| | 13 | 7910 | 108.49 | 119900 | 2.3 | | | | |
| | 15 | 7040 | 96.53* | 120000 | 2.6 | | | | |
| | 17 | 6260 | 85.80* | 118100 | 2.9 | | | | |
| | 18 | 5720 | 78.46 | 115700 | 3.1 | | | | |
| | 21 | 4980 | 68.28* | 112000 | 3.6 | | | | |
| | 7.7 | 13700 | 125.37 | 87100 | 0.85 | TFA 128 | MY 160L6 | 127 | |
| | 8.4 | 12500 | 114.34 | 89500 | 0.95 | TFAF 128 | MY 160L6 | 126 | |
| | 9.7 | 10800 | 98.95 | 90000 | 1.10 | TF 128 | MY 160L6 | 125 | |
| | 11 | 9550 | 87.31* | 90000 | 1.25 | TFF 128 | MY 160L6 | 126 | |
| | 13 | 8250 | 75.41* | 90000 | 1.45 | | | | |
| | 8.4 | 12500 | 170.83 | 89500 | 0.95 | TFA 128 | MY 160M4 | 127 | |
| | 9.4 | 11200 | 153.67* | 90000 | 1.05 | TFAF 128 | MY 160M4 | 126 | |
| | 11 | 9150 | 125.37 | 90000 | 1.30 | TF 128 | MY 160M4 | 125 | |
| | 13 | 8340 | 114.34 | 90000 | 1.45 | TFF 128 | MY 160M4 | 126 | |
| | 15 | 7220 | 98.95 | 90000 | 1.65 | | | | |
| 16 | 6370 | 87.31* | 90000 | 1.9 | | | | | |
| 19 | 5500 | 75.41* | 88600 | 2.2 | | | | | |


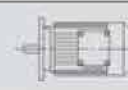
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---|------|
| 11.0 | 12 | 8600 | 117.94 | 47300 | 0.90 | TFA 108 | MY 160M4 | 123 |
| | 14 | 7400 | 101.38* | 50600 | 1.05 | TFAF 108 | MY 160M4 | 122 |
| | 16 | 6750 | 92.47* | 52200 | 1.15 | TF 108 | MY 160M4 | 121 |
| | | | | | | TFF 108 | MY 160M4 | 122 |
| | 17 | 6130 | 83.99 | 53700 | 1.25 | TFA 108 | MY 160M4 | 123 |
| | 19 | 5440 | 74.52 | 55300 | 1.40 | TFAF 108 | MY 160M4 | 122 |
| | 21 | 4930 | 67.62 | 56500 | 1.55 | TF 108 | MY 160M4 | 121 |
| | 25 | 4240 | 58.12* | 56400 | 1.80 | TFF 108 | MY 160M4 | 122 |
| | 28 | 3700 | 50.73 | 55100 | 2.1 | | | |
| | 33 | 3140 | 43.03 | 53500 | 2.5 | | | |
| | 43 | 2470 | 33.79* | 51000 | 3.0 | TFA 108 | MY 160M4 | 123 |
| | 52 | 2010 | 27.57 | 48800 | 3.9 | TFAF 108 | MY 160M4 | 122 |
| | 57 | 1830 | 25.14 | 47800 | 4.3 | TF 108 | MY 160M4 | 121 |
| | | | | | | TFF 108 | MY 160M4 | 122 |
| | 22 | 4780 | 65.47 | 24000 | 0.90 | TFA 98 | MY 160M4 | 119 |
| | 25 | 4240 | 58.06 | 27100 | 1.00 | TFAF 98 | MY 160M4 | 118 |
| | 27 | 3830 | 52.49 | 27100 | 1.10 | TF 98 | MY 160M4 | 117 |
| | | | | | | TFF 98 | MY 160M4 | 118 |
| | 32 | 3250 | 44.49 | 27000 | 1.30 | TFA 98 | MY 160M4 | 119 |
| | 37 | 2830 | 38.86 | 26700 | 1.50 | TFAF 98 | MY 160M4 | 118 |
| | 44 | 2370 | 32.50 | 26200 | 1.80 | TF 98 | MY 160M4 | 117 |
| | | | | | | TFF 98 | MY 160M4 | 118 |
| | 42 | 2470 | 33.91 | 26400 | 1.75 | TFA 98 | MY 160M4 | 119 |
| | 47 | 2220 | 30.39 | 26000 | 1.95 | TFAF 98 | MY 160M4 | 118 |
| | 52 | 2000 | 27.44* | 25600 | 2.2 | TF 98 | MY 160M4 | 117 |
| | 58 | 1820 | 24.92 | 25200 | 2.4 | TFF 98 | MY 160M4 | 118 |
| | 65 | 1610 | 22.11 | 24700 | 2.7 | | | |
| | 37 | 2870 | 39.30 | 14600 | 0.95 | TFA 88 | MY 160M4 | 115 |
| | 41 | 2570 | 35.19 | 14800 | 1.00 | TFAF 88 | MY 160M4 | 114 |
| | 49 | 2130 | 29.20 | 15000 | 1.20 | TF 88 | MY 160M4 | 113 |
| | | | | | | TFF 88 | MY 160M4 | 114 |
| | 54 | 1930 | 26.50 | 15000 | 1.55 | TFA 88 | MY 160M4 | 115 |
| | 61 | 1730 | 23.68 | 15000 | 1.75 | TFAF 88 | MY 160M4 | 114 |
| | 68 | 1560 | 21.32* | 14900 | 1.95 | TF 88 | MY 160M4 | 113 |
| | 75 | 1410 | 19.31 | 14800 | 2.1 | TFF 88 | MY 160M4 | 114 |
| | 84 | 1250 | 17.12 | 14600 | 2.4 | | | |
| | 93 | 1130 | 15.48 | 14400 | 2.7 | | | |
| | 110 | 960 | 13.12* | 14100 | 3.1 | | | |
| | 73 | 1440 | 19.70 | 16100 | 1.05 | TFA 78 | MY 160M4 | 111 |
| | 82 | 1280 | 17.49 | 17100 | 1.20 | TFAF 78 | MY 160M4 | 110 |
| | 92 | 1140 | 15.64* | 17600 | 1.30 | TF 78 | MY 160M4 | 109 |
| | 102 | 1030 | 14.06 | 17400 | 1.45 | TFF 78 | MY 160M4 | 110 |
| | 118 | 890 | 12.20 | 17000 | 1.70 | | | |
| | 132 | 795 | 10.93 | 16700 | 1.90 | | | |
| 155 | 680 | 9.30 | 15500 | 1.60 | | | | |
| 174 | 605 | 8.26 | 15200 | 1.80 | | | | |
| 195 | 540 | 7.39 | 14900 | 2.0 | | | | |
| 217 | 485 | 6.64 | 14600 | 2.2 | | | | |
| 250 | 420 | 5.76 | 14200 | 2.6 | | | | |
| 279 | 375 | 5.16 | 13900 | 2.9 | | | | |
| 336 | 310 | 4.28 | 13300 | 3.2 | | | | |
| 15.0 | 6.3 | 21200 | 232 | 89400 | 0.85 | TFA 158 / TRF98 | MY 160L4 | 133 |
| | 7.2 | 18500 | 202 | 98800 | 0.95 | TFAF 158 / TRF98 | MY 160L4 | 133 |
| | 7.4 | 18000 | 197 | 100400 | 1.00 | TF 158 / TRF98 | MY 160L4 | 133 |
| | | | | | | TFF 158 / TRF98 | MY 160L4 | 133 |


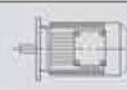
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | fs |  |  | Page |
|------------------|------------------|------------------|---------|---------------|---------|--|---|------|
| 15.0 | 6.8 | 20900 | 141.80* | 90400 | 0.85 | TFA 158 | MY 180L6 | 131 |
| | 7.8 | 18500 | 125.14 | 98800 | 0.95 | TFAF 158 | MY 180L6 | 130 |
| | 8.9 | 16000 | 108.49 | 105700 | 1.10 | TF 158 | MY 180L6 | 129 |
| | 10 | 14300 | 96.53* | 109800 | 1.25 | TFF 158 | MY 180L6 | 130 |
| | 11 | 12700 | 85.80* | 112900 | 1.40 | | | |
| | 6.7 | 21400 | 217.62* | 88800 | 0.85 | TFA 158 | MY 160L4 | 131 |
| | 8.2 | 17500 | 178.20* | 101800 | 1.05 | TFAF 158 | MY 160L4 | 130 |
| | 9.0 | 16000 | 162.96 | 105700 | 1.15 | TF 158 | MY 160L4 | 129 |
| | 10 | 13900 | 141.80* | 110500 | 1.30 | TFF 158 | MY 160L4 | 130 |
| | 12 | 12300 | 125.14 | 113600 | 1.45 | | | |
| | 13 | 10600 | 108.49 | 116300 | 1.70 | | | |
| | 15 | 9470 | 96.53* | 115800 | 1.90 | | | |
| | 17 | 8420 | 85.80* | 113200 | 2.1 | | | |
| | 19 | 7700 | 78.46 | 111200 | 2.3 | | | |
| | 21 | 6700 | 68.28* | 108000 | 2.7 | | | |
| | 24 | 5910 | 60.25 | 105100 | 3.1 | | | |
| | 9.8 | 14600 | 98.95 | 85300 | 0.80 | TFA 128 | MY 180L6 | 127 |
| | 11 | 12900 | 87.31* | 88700 | 0.95 | TFAF 128 | MY 180L6 | 126 |
| | 13 | 11100 | 75.41* | 88300 | 1.10 | TF 128 | MY 180L6 | 125 |
| | 14 | 10300 | 70.07 | 87600 | 1.15 | TFF 128 | MY 180L6 | 126 |
| | 15 | 9440 | 63.91 | 86700 | 1.25 | | | |
| | 12 | 12300 | 125.37 | 89000 | 1.00 | TFA 128 | MY 160L4 | 127 |
| | 13 | 11200 | 114.34 | 88300 | 1.05 | TFAF 128 | MY 160L4 | 126 |
| | 15 | 9710 | 98.95 | 87000 | 1.25 | TF 128 | MY 160L4 | 125 |
| | 17 | 8570 | 87.31* | 85600 | 1.40 | TFF 128 | MY 160L4 | 126 |
| | 19 | 7400 | 75.41* | 83800 | 1.60 | | | |
| | 21 | 6870 | 70.07 | 82800 | 1.75 | | | |
| | 16 | 9070 | 92.47* | 45900 | 0.85 | TFA 108 | MY 160L4 | 123 |
| | 17 | 8680 | 88.49 | 47100 | 0.90 | TFAF 108 | MY 160L4 | 122 |
| | 17 | 8240 | 83.99 | 48300 | 0.95 | TF 108 | MY 160L4 | 121 |
| | 20 | 7310 | 74.52 | 50800 | 1.05 | TFF 108 | MY 160L4 | 122 |
| | 22 | 6630 | 67.62 | 52500 | 1.15 | | | |
| | 25 | 5700 | 58.12* | 52200 | 1.35 | TFA 108 | MY 160L4 | 123 |
| | 29 | 4980 | 50.73 | 51500 | 1.55 | TFAF 108 | MY 160L4 | 122 |
| | 34 | 4220 | 43.03 | 50400 | 1.80 | TF 108 | MY 160L4 | 121 |
| | 39 | 3690 | 37.61 | 49300 | 2.1 | TFF 108 | MY 160L4 | 122 |
| | 46 | 3120 | 31.80 | 48000 | 2.5 | | | |
| | 43 | 3320 | 33.79* | 48500 | 2.2 | TFA 108 | MY 160L4 | 123 |
| | 53 | 2700 | 27.57 | 46700 | 2.9 | TFAF 108 | MY 160L4 | 122 |
| | 58 | 2470 | 25.14 | 45900 | 3.2 | TF 108 | MY 160L4 | 121 |
| | 67 | 2130 | 21.76* | 44500 | 3.7 | TFF 108 | MY 160L4 | 122 |
| | 33 | 4360 | 44.49 | 22900 | 1.00 | TFA 98 | MY 160L4 | 119 |
| | 38 | 3810 | 38.86 | 23100 | 1.15 | TFAF 98 | MY 160L4 | 118 |
| | 45 | 3190 | 32.50 | 23200 | 1.35 | TF 98 | MY 160L4 | 117 |
| | | | | | | TFF 98 | MY 160L4 | 118 |
| 43 | 3330 | 33.91 | 23200 | 1.30 | TFA 98 | MY 160L4 | 119 | |
| 48 | 2980 | 30.39 | 23200 | 1.45 | TFAF 98 | MY 160L4 | 118 | |
| 53 | 2690 | 27.44* | 23100 | 1.60 | TF 98 | MY 160L4 | 117 | |
| 59 | 2450 | 24.92 | 22900 | 1.75 | TFF 98 | MY 160L4 | 118 | |
| 66 | 2170 | 22.11 | 22600 | 2.0 | | | | |
| 73 | 1970 | 20.07 | 22400 | 2.2 | | | | |
| 85 | 1690 | 17.25* | 21900 | 2.5 | | | | |
| 97 | 1480 | 15.06 | 21400 | 2.9 | | | | |
| 114 | 1250 | 12.77 | 20800 | 3.4 | | | | |
| 131 | 1100 | 11.16 | 20200 | 3.7 | | | | |


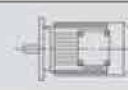
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{R2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---|----------|
| 15.0 | 55 | 2600 | 26.50 | 12300 | 1.15 | TFA 88 | MY 160L4 | 115 |
| | 62 | 2320 | 23.68 | 12600 | 1.30 | TFAF 88 | MY 160L4 | 114 |
| | 68 | 2090 | 21.32* | 12700 | 1.45 | TF 88 | MY 160L4 | 113 |
| | 76 | 1890 | 19.31 | 12800 | 1.60 | TFF 88 | MY 160L4 | 114 |
| | 85 | 1680 | 17.12 | 12900 | 1.80 | | | |
| | 94 | 1520 | 15.48 | 12800 | 2.0 | | | |
| | 111 | 1290 | 13.12* | 12700 | 2.3 | | | |
| | 127 | 1120 | 11.46 | 12600 | 2.7 | | | |
| | 152 | 940 | 9.58 | 12300 | 3.1 | | | |
| | 176 | 810 | 8.29 | 11700 | 1.90 | | | |
| | 199 | 720 | 7.35 | 11500 | 2.1 | | | |
| | 220 | 650 | 6.65 | 11300 | 2.4 | | | |
| | 259 | 555 | 5.63 | 11000 | 2.8 | | | |
| | 297 | 485 | 4.92 | 10700 | 3.2 | | | |
| | 355 | 405 | 4.12 | 10300 | 3.6 | | | |
| | 18.5 | 7.2 | 22800 | 202 | 70200 | 0.80 | TFA 158 / TRF98 | MY 180M4 |
| 7.5 | | 22100 | 197 | 83800 | 0.80 | TFAF 158 / TRF98 | MY 180M4 | 133 |
| | | | | | | TF 158 / TRF98 | MY 180M4 | 133 |
| | | | | | | TFF 158 / TRF98 | MY 180M4 | 133 |
| 8.2 | | 21500 | 178.20* | 88200 | 0.85 | TFA 158 | MY 180M4 | 131 |
| 9.0 | | 19700 | 162.96 | 95000 | 0.90 | TFAF 158 | MY 180M4 | 130 |
| 10 | | 17100 | 141.80* | 102800 | 1.05 | TF 158 | MY 180M4 | 129 |
| 12 | | 15100 | 125.14 | 107900 | 1.20 | TFF 158 | MY 180M4 | 130 |
| 14 | | 13100 | 108.49 | 112100 | 1.40 | | | |
| 15 | | 11600 | 96.53* | 111300 | 1.55 | | | |
| 17 | | 10300 | 85.80* | 109300 | 1.75 | | | |
| 19 | | 9460 | 78.46 | 107600 | 1.90 | | | |
| 21 | | 8230 | 68.28* | 104900 | 2.2 | | | |
| 24 | | 7270 | 60.25 | 102300 | 2.5 | | | |
| 28 | | 6300 | 52.24 | 99300 | 2.9 | | | |
| 13 | | 13800 | 114.34 | 82200 | 0.85 | TFA 128 | MY 180M4 | 127 |
| 15 | | 11900 | 98.95 | 81700 | 1.00 | TFAF 128 | MY 180M4 | 126 |
| 17 | | 10500 | 87.31* | 80900 | 1.15 | TF 128 | MY 180M4 | 125 |
| 19 | | 9090 | 75.41* | 79700 | 1.30 | TFF 128 | MY 180M4 | 126 |
| 21 | | 8450 | 70.07 | 79000 | 1.40 | | | |
| 23 | | 7710 | 63.91 | 78100 | 1.55 | | | |
| 26 | | 6670 | 55.31 | 76400 | 1.80 | | | |
| 30 | | 5880 | 48.80 | 74900 | 2.0 | | | |
| 20 | | 8990 | 74.52 | 46200 | 0.85 | TFA 108 | MY 180M4 | 123 |
| 22 | | 8150 | 67.62 | 48500 | 0.95 | TFAF 108 | MY 180M4 | 122 |
| 25 | | 7010 | 58.12* | 48700 | 1.10 | TF 108 | MY 180M4 | 121 |
| 29 | | 6120 | 50.73 | 48400 | 1.25 | TFF 108 | MY 180M4 | 122 |
| 34 | | 5190 | 43.03 | 47700 | 1.50 | TFA 108 | MY 180M4 | 123 |
| 39 | | 4540 | 37.61 | 47000 | 1.70 | TFAF 108 | MY 180M4 | 122 |
| 46 | | 3830 | 31.80 | 46000 | 2.0 | TF 108 | MY 180M4 | 121 |
| | | | | | | TFF 108 | MY 180M4 | 122 |
| 43 | | 4070 | 33.79* | 46400 | 1.80 | TFA 108 | MY 180M4 | 123 |
| 53 | | 3320 | 27.57 | 45000 | 2.4 | TFAF 108 | MY 180M4 | 122 |
| 58 | | 3030 | 25.14 | 44300 | 2.6 | TF 108 | MY 180M4 | 121 |
| 67 | | 2620 | 21.76* | 43200 | 3.0 | TFF 108 | MY 180M4 | 122 |
| 38 | | 4690 | 38.86 | 20000 | 0.90 | TFA 98 | MY 180M4 | 119 |
| 45 | | 3920 | 32.50 | 20600 | 1.10 | TFAF 98 | MY 180M4 | 118 |
| | | | | | | TF 98 | MY 180M4 | 117 |
| | | | | | | TFF 98 | MY 180M4 | 118 |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---|------|
| 18.5 | 53 | 3310 | 27.44* | 20900 | 1.30 | TFA 98 | MY 180M4 | 119 |
| | 59 | 3010 | 24.92 | 20900 | 1.45 | TFAF 98 | MY 180M4 | 118 |
| | 66 | 2670 | 22.11 | 20900 | 1.60 | TF 98 | MY 180M4 | 117 |
| | 73 | 2420 | 20.07 | 20800 | 1.80 | TFF 98 | MY 180M4 | 118 |
| | 85 | 2080 | 17.25* | 20500 | 2.1 | | | |
| | 97 | 1820 | 15.06 | 20200 | 2.4 | | | |
| | 115 | 1540 | 12.77 | 19800 | 2.8 | | | |
| | 131 | 1350 | 11.16 | 19300 | 3.1 | | | |
| | 69 | 2570 | 21.32* | 10900 | 1.15 | TFA 88 | MY 180M4 | 115 |
| | 76 | 2330 | 19.31 | 11100 | 1.30 | TFAF 88 | MY 180M4 | 114 |
| | 86 | 2060 | 17.12 | 11400 | 1.45 | TF 88 | MY 180M4 | 113 |
| | 95 | 1870 | 15.48 | 11500 | 1.60 | TFF 88 | MY 180M4 | 114 |
| | 112 | 1580 | 13.12* | 11600 | 1.90 | | | |
| | 128 | 1380 | 11.46 | 11600 | 2.2 | | | |
| | 153 | 1160 | 9.58 | 11500 | 2.5 | | | |
| | 177 | 1000 | 8.29 | 10900 | 1.55 | | | |
| | 199 | 890 | 7.35 | 10800 | 1.75 | | | |
| | 220 | 800 | 6.65 | 10700 | 1.90 | | | |
| | 260 | 680 | 5.63 | 10400 | 2.3 | | | |
| | 298 | 595 | 4.92 | 10200 | 2.6 | | | |
| 356 | 495 | 4.12 | 9900 | 2.9 | | | | |
| 22.0 | 10 | 20900 | 96.53* | 90500 | 0.85 | TFA 158 | MY 200L6 | 131 |
| | 11 | 18600 | 85.80* | 98500 | 0.95 | TFAF 158 | MY 200L6 | 130 |
| | 12 | 17000 | 78.46 | 103100 | 1.05 | TF 158 | MY 200L6 | 129 |
| | 14 | 14800 | 68.28* | 107700 | 1.20 | TFF 158 | MY 200L6 | 130 |
| | 10 | 20300 | 141.80* | 92600 | 0.90 | TFA 158 | MY 180L4 | 131 |
| | 12 | 17900 | 125.14 | 100400 | 1.00 | TFAF 158 | MY 180L4 | 130 |
| | 14 | 15600 | 108.49 | 106800 | 1.15 | TF 158 | MY 180L4 | 129 |
| | 15 | 13800 | 96.53* | 106900 | 1.30 | TFF 158 | MY 180L4 | 130 |
| | 17 | 12300 | 85.80* | 105400 | 1.45 | | | |
| | 19 | 11300 | 78.46 | 104000 | 1.60 | | | |
| | 21 | 9790 | 68.28* | 101700 | 1.85 | | | |
| | 24 | 8640 | 60.25 | 99600 | 2.1 | | | |
| | 28 | 7490 | 52.24 | 97000 | 2.4 | | | |
| | 32 | 6660 | 46.48* | 94800 | 2.7 | | | |
| | 37 | 5740 | 40.06 | 91900 | 3.1 | | | |
| | 45 | 4670 | 32.55 | 87800 | 3.9 | | | |
| | 15 | 14200 | 98.95 | 76400 | 0.85 | TFA 128 | MY 180L4 | 127 |
| | 17 | 12500 | 87.31* | 76300 | 0.95 | TFAF 128 | MY 180L4 | 126 |
| | 19 | 10800 | 75.41* | 75700 | 1.10 | TF 128 | MY 180L4 | 125 |
| | 21 | 10000 | 70.07 | 75300 | 1.20 | TFF 128 | MY 180L4 | 126 |
| | 23 | 9160 | 63.91 | 74700 | 1.30 | | | |
| | 26 | 7930 | 55.31 | 73500 | 1.50 | | | |
| | 30 | 7000 | 48.80 | 72300 | 1.70 | | | |
| | 35 | 6040 | 42.15 | 70700 | 2.0 | | | |
| | 25 | 8330 | 58.12* | 45200 | 0.90 | TFA 108 | MY 180L4 | 123 |
| | 29 | 7280 | 50.73 | 45300 | 1.05 | TFAF 108 | MY 180L4 | 122 |
| | 34 | 6170 | 43.03 | 45100 | 1.25 | TF 108 | MY 180L4 | 121 |
| | | | | | | TFF 108 | MY 180L4 | 122 |
| | 39 | 5390 | 37.61 | 44800 | 1.40 | TFA 108 | MY 180L4 | 123 |
| | 46 | 4560 | 31.80 | 44100 | 1.70 | TFAF 108 | MY 180L4 | 122 |
| | | | | | | TF 108 | MY 180L4 | 121 |
| | | | | | | TFF 108 | MY 180L4 | 122 |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page | |
|------------------|------------------|------------------|--------|-----------------|-------|--|---|----------|-----|
| 22.0 | 43 | 4850 | 33.79* | 44300 | 1.55 | TFA 108 | MY 180L4 | 123 | |
| | 53 | 3950 | 27.57 | 43300 | 2.0 | TFAF 108 | MY 180L4 | 122 | |
| | 58 | 3610 | 25.14 | 42800 | 2.2 | TF 108 | MY 180L4 | 121 | |
| | 67 | 3120 | 21.76* | 41900 | 2.5 | TFF 108 | MY 180L4 | 122 | |
| | 76 | 2750 | 19.20* | 41000 | 2.9 | | | | |
| | 53 | 3940 | 27.44* | 18700 | 1.10 | TFA 98 | MY 180L4 | 119 | |
| | 59 | 3570 | 24.92 | 18900 | 1.20 | TFAF 98 | MY 180L4 | 118 | |
| | 66 | 3170 | 22.11 | 19100 | 1.35 | TF 98 | MY 180L4 | 117 | |
| | 73 | 2880 | 20.07 | 19200 | 1.50 | TFF 98 | MY 180L4 | 118 | |
| | 85 | 2470 | 17.25* | 19100 | 1.75 | | | | |
| | 97 | 2160 | 15.06 | 19000 | 2.0 | | | | |
| | 115 | 1830 | 12.77 | 18700 | 2.4 | | | | |
| | 131 | 1600 | 11.16 | 18400 | 2.6 | | | | |
| | 69 | 3060 | 21.32* | 8990 | 1.00 | TFA 88 | MY 180L4 | 115 | |
| | 76 | 2770 | 19.31 | 9430 | 1.10 | TFAF 88 | MY 180L4 | 114 | |
| | 86 | 2460 | 17.12 | 9850 | 1.20 | TF 88 | MY 180L4 | 113 | |
| | 95 | 2220 | 15.48 | 10100 | 1.35 | TFF 88 | MY 180L4 | 114 | |
| | 112 | 1880 | 13.12* | 10400 | 1.60 | | | | |
| | 128 | 1640 | 11.46 | 10600 | 1.85 | | | | |
| | 153 | 1370 | 9.58 | 10600 | 2.1 | | | | |
| | 177 | 1190 | 8.29 | 10100 | 1.30 | | | | |
| | 199 | 1050 | 7.35 | 10100 | 1.45 | | | | |
| | 220 | 950 | 6.65 | 10000 | 1.60 | | | | |
| | 260 | 810 | 5.63 | 9900 | 1.90 | | | | |
| | 298 | 705 | 4.92 | 9750 | 2.2 | | | | |
| | 356 | 590 | 4.12 | 9500 | 2.5 | | | | |
| | 30 | 14 | 21100 | 108.49 | 89600 | 0.85 | TFA 158 | MY 200L4 | 131 |
| | | 15 | 18800 | 96.53* | 96900 | 0.95 | TFAF 158 | MY 200L4 | 130 |
| 17 | | 16700 | 85.80* | 96400 | 1.10 | TF 158 | MY 200L4 | 129 | |
| 19 | | 15300 | 78.46 | 95800 | 1.20 | TFF 158 | MY 200L4 | 130 | |
| 22 | | 13300 | 68.28* | 94600 | 1.35 | | | | |
| 24 | | 11700 | 60.25 | 93300 | 1.55 | | | | |
| 28 | | 10200 | 52.24 | 91500 | 1.75 | | | | |
| 32 | | 9060 | 46.48* | 89900 | 2.0 | | | | |
| 37 | | 7810 | 40.06 | 87700 | 2.3 | | | | |
| 19 | | 14700 | 75.41* | 66600 | 0.80 | TFA 128 | MY 200L4 | 127 | |
| 21 | | 13700 | 70.07 | 66800 | 0.90 | TFAF 128 | MY 200L4 | 126 | |
| 23 | | 12500 | 63.91 | 66900 | 0.95 | TF 128 | MY 200L4 | 125 | |
| 27 | | 10800 | 55.31 | 66700 | 1.10 | TFF 128 | MY 200L4 | 126 | |
| 30 | | 9510 | 48.80 | 66300 | 1.25 | | | | |
| 35 | | 8210 | 42.15 | 65500 | 1.45 | | | | |
| 39 | | 7270 | 37.28 | 64700 | 1.65 | | | | |
| 47 | | 6110 | 31.33 | 63200 | 1.95 | | | | |
| 58 | | 4930 | 25.30 | 61200 | 2.4 | | | | |
| 55 | | 5240 | 26.86 | 61800 | 1.60 | TFA 128 | MY 200L4 | 127 | |
| 60 | | 4790 | 24.57 | 60900 | 1.80 | TFAF 128 | MY 200L4 | 126 | |
| 69 | | 4170 | 21.38 | 59400 | 2.9 | TF 128 | MY 200L4 | 125 | |
| 78 | | 3680 | 18.87 | 58000 | 3.0 | TFF 128 | MY 200L4 | 126 | |
| 34 | | 8390 | 43.03 | 39200 | 0.90 | TFA 108 | MY 200L4 | 123 | |
| 39 | | 7330 | 37.61 | 39600 | 1.05 | TFAF 108 | MY 200L4 | 122 | |
| 46 | | 6200 | 31.80 | 39700 | 1.25 | TF 108 | MY 200L4 | 121 | |
| | | | | | | TFF 108 | MY 200L4 | 122 | |
| 53 | | 5370 | 27.57 | 39500 | 1.45 | TFA 108 | MY 200L4 | 123 | |
| 58 | | 4900 | 25.14 | 39300 | 1.60 | TFAF 108 | MY 200L4 | 122 | |
| 68 | | 4240 | 21.76* | 38800 | 1.85 | TF 108 | MY 200L4 | 121 | |
| 77 | | 3740 | 19.20* | 38300 | 2.1 | TFF 108 | MY 200L4 | 122 | |


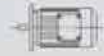
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|---|------|
| 30 | 89 | 3230 | 16.58 | 37600 | 2.4 | TFA 108 | MY 200L4 | 123 |
| | 100 | 2860 | 14.67 | 36900 | 2.7 | TFAF 108 | MY 200L4 | 122 |
| | 119 | 2400 | 12.33 | 35900 | 2.9 | TF 108 | MY 200L4 | 121 |
| | 148 | 1940 | 9.96 | 34500 | 3.4 | TFF 108 | MY 200L4 | 122 |
| | 66 | 4310 | 22.11 | 15100 | 1.00 | TFA 98 | MY 200L4 | 119 |
| | 73 | 3910 | 20.07 | 15500 | 1.10 | TFAF 98 | MY 200L4 | 118 |
| | 85 | 3360 | 17.25* | 16000 | 1.30 | TF 98 | MY 200L4 | 117 |
| | 98 | 2930 | 15.06 | 16300 | 1.45 | TFF 98 | MY 200L4 | 118 |
| | 115 | 2490 | 12.77 | 16400 | 1.75 | | | |
| | 132 | 2180 | 11.16 | 16400 | 1.90 | | | |
| | 162 | 1770 | 9.06 | 15400 | 1.35 | | | |
| | 179 | 1600 | 8.22 | 15300 | 1.45 | | | |
| | 208 | 1380 | 7.07 | 15100 | 1.70 | | | |
| | 238 | 1200 | 6.17 | 14900 | 1.85 | | | |
| | 281 | 1020 | 5.23 | 14600 | 2.1 | | | |
| 321 | 890 | 4.57 | 14300 | 2.3 | | | | |
| 37 | 17 | 20600 | 85.80* | 88600 | 0.85 | TFA 158 | MY 225S4 | 131 |
| | 19 | 18900 | 78.46 | 88700 | 0.95 | TFAF 158 | MY 225S4 | 130 |
| | 22 | 16400 | 68.28* | 88400 | 1.10 | TF 158 | MY 225S4 | 129 |
| | 24 | 14500 | 60.25 | 87800 | 1.25 | TFF 158 | MY 225S4 | 130 |
| | 28 | 12600 | 52.24 | 86800 | 1.45 | | | |
| | 32 | 11200 | 46.48* | 85700 | 1.60 | | | |
| | 37 | 9830 | 40.06 | 84000 | 1.85 | | | |
| | 45 | 7820 | 32.55 | 81400 | 2.3 | | | |
| | 53 | 6630 | 27.60 | 79100 | 2.7 | | | |
| | 27 | 13300 | 55.31 | 60900 | 0.90 | TFA 128 | MY 225S4 | 127 |
| | 30 | 11700 | 48.80 | 61100 | 1.00 | TFAF 128 | MY 225S4 | 126 |
| | 35 | 10100 | 42.15 | 61100 | 1.20 | TF 128 | MY 225S4 | 125 |
| | 39 | 8960 | 37.28 | 60700 | 1.35 | TFF 128 | MY 225S4 | 126 |
| | 47 | 7530 | 31.33 | 59900 | 1.60 | | | |
| | 58 | 6080 | 25.30 | 58500 | 1.95 | | | |
| | 55 | 6460 | 26.86 | 58900 | 1.30 | TFA 128 | MY 225S4 | 127 |
| | 60 | 5910 | 24.57 | 58300 | 1.45 | TFAF 128 | MY 225S4 | 126 |
| | 69 | 5140 | 21.38 | 57100 | 2.3 | TF 128 | MY 225S4 | 125 |
| | 78 | 4530 | 18.87 | 56000 | 2.4 | TFF 128 | MY 225S4 | 126 |
| | 90 | 3930 | 16.36 | 54600 | 2.8 | | | |
| | 101 | 3500 | 14.55 | 53400 | 3.1 | | | |
| | 117 | 3010 | 12.54 | 51900 | 3.3 | | | |
| | 144 | 2450 | 10.19 | 49600 | 3.9 | | | |
| | 166 | 2130 | 8.86 | 47700 | 3.3 | | | |
| | 186 | 1890 | 7.88 | 46500 | 3.2 | | | |
| | 53 | 6630 | 27.57 | 36200 | 1.20 | TFA 108 | MY 225S4 | 123 |
| | 58 | 6040 | 25.14 | 36200 | 1.30 | TFAF 108 | MY 225S4 | 122 |
| | 68 | 5230 | 21.76* | 36200 | 1.50 | TF 108 | MY 225S4 | 121 |
| | 77 | 4610 | 19.20* | 36000 | 1.70 | TFF 108 | MY 225S4 | 122 |
| | 89 | 3990 | 16.58 | 35600 | 1.95 | | | |
| | 100 | 3530 | 14.67 | 35100 | 2.2 | | | |
| | 119 | 2960 | 12.33 | 34400 | 2.4 | | | |
| | 148 | 2390 | 9.96 | 33300 | 2.7 | | | |
| 152 | 2330 | 9.69 | 32400 | 2.1 | | | | |
| 176 | 2010 | 8.37 | 31700 | 2.4 | | | | |
| 199 | 1780 | 7.40 | 31000 | 2.6 | | | | |
| 236 | 1500 | 6.22 | 30000 | 3.1 | | | | |
| 45 | 22 | 20000 | 68.28* | 81300 | 0.90 | TFA 158 | MY 225M4 | 131 |
| | 24 | 17600 | 60.25 | 81600 | 1.00 | TFAF 158 | MY 225M4 | 130 |
| | 28 | 15300 | 52.24 | 81300 | 1.20 | TF 158 | MY 225M4 | 129 |
| | 32 | 13600 | 46.48* | 80900 | 1.30 | TFF 158 | MY 225M4 | 130 |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | f_s |  |  | Page |
|------------------|------------------|------------------|--------|---------------|-------|--|---|------|
| 45 | 37 | 11700 | 40.06 | 79900 | 1.55 | TFA 158 | MY 225M4 | 131 |
| | 45 | 9510 | 32.55 | 78000 | 1.90 | TFAF 158 | MY 225M4 | 130 |
| | 53 | 8070 | 27.60 | 76200 | 2.2 | TF 158 | MY 225M4 | 129 |
| | | | | | | TFF 158 | MY 225M4 | 130 |
| | 30 | 14300 | 48.80 | 55200 | 0.85 | TFA 128 | MY 225M4 | 127 |
| | 35 | 12300 | 42.15 | 56000 | 0.95 | TFAF 128 | MY 225M4 | 126 |
| | 39 | 10900 | 37.28 | 56200 | 1.10 | TF 128 | MY 225M4 | 125 |
| | 47 | 9160 | 31.33 | 56100 | 1.30 | TFF 128 | MY 225M4 | 126 |
| | 58 | 7400 | 25.30 | 55400 | 1.60 | | | |
| | 55 | 7850 | 26.86 | 55700 | 1.10 | TFA 128 | MY 225M4 | 127 |
| | 60 | 7180 | 24.57 | 55300 | 1.20 | TFAF 128 | MY 225M4 | 126 |
| | 69 | 6250 | 21.38 | 54500 | 1.90 | TF 128 | MY 225M4 | 125 |
| | 78 | 5520 | 18.87 | 53700 | 2.0 | TFF 128 | MY 225M4 | 126 |
| | 90 | 4780 | 16.36 | 52600 | 2.3 | | | |
| | 101 | 4250 | 14.55 | 51600 | 2.6 | | | |
| | 117 | 3670 | 12.54 | 50300 | 2.7 | | | |
| | 144 | 2980 | 10.19 | 48400 | 3.2 | | | |
| | 166 | 2590 | 8.86 | 46600 | 2.7 | | | |
| | 186 | 2300 | 7.88 | 45500 | 2.6 | | | |
| | 216 | 1990 | 6.80 | 44000 | 3.5 | | | |
| | 266 | 1610 | 5.52 | 42000 | 3.7 | | | |
| | 53 | 8060 | 27.57 | 32400 | 0.95 | TFA 108 | MY 225M4 | 123 |
| | 58 | 7350 | 25.14 | 32800 | 1.05 | TFAF 108 | MY 225M4 | 122 |
| | 68 | 6360 | 21.76* | 33200 | 1.25 | TF 108 | MY 225M4 | 121 |
| | 77 | 5610 | 19.20* | 33300 | 1.40 | TFF 108 | MY 225M4 | 122 |
| | 89 | 4850 | 16.58 | 33300 | 1.60 | | | |
| | 100 | 4290 | 14.67 | 33100 | 1.80 | | | |
| | 119 | 3600 | 12.33 | 32700 | 1.95 | | | |
| | 148 | 2910 | 9.96 | 31900 | 2.2 | | | |
| | 152 | 2830 | 9.69 | 31000 | 1.75 | | | |
| 176 | 2450 | 8.37 | 30400 | 1.95 | | | | |
| 199 | 2160 | 7.40 | 29900 | 2.1 | | | | |
| 236 | 1820 | 6.22 | 29100 | 2.5 | | | | |
| 55 | 24 | 21500 | 60.25 | 73800 | 0.85 | TFA 158 | MY 250M4 | 131 |
| | 28 | 18600 | 52.24 | 74600 | 0.95 | TFAF 158 | MY 250M4 | 130 |
| | 32 | 16500 | 46.48* | 74800 | 1.10 | TF 158 | MY 250M4 | 129 |
| | 37 | 14300 | 40.06 | 74700 | 1.25 | TFF 158 | MY 250M4 | 130 |
| | 45 | 11600 | 32.55 | 73800 | 1.55 | | | |
| | 53 | 9830 | 27.60 | 72600 | 1.85 | | | |
| | 52 | 10200 | 28.60* | 72900 | 1.65 | TFA 158 | MY 250M4 | 131 |
| | 58 | 9060 | 25.43 | 71900 | 1.65 | TFAF 158 | MY 250M4 | 130 |
| | 67 | 7890 | 22.16 | 70600 | 2.3 | TF 158 | MY 250M4 | 129 |
| | 75 | 7040 | 19.77 | 69400 | 2.4 | TFF 158 | MY 250M4 | 130 |
| | 88 | 6000 | 16.85 | 67600 | 3.0 | | | |
| | 40 | 13300 | 37.28 | 50600 | 0.90 | TFA 128 | MY 250M4 | 127 |
| | 47 | 11200 | 31.33 | 51400 | 1.10 | TFAF 128 | MY 250M4 | 126 |
| | 58 | 9010 | 25.30 | 51600 | 1.35 | TF 128 | MY 250M4 | 125 |
| | | | | | | TFF 128 | MY 250M4 | 126 |
| | 69 | 7610 | 21.38 | 51300 | 1.60 | TFA 128 | MY 250M4 | 127 |
| | 78 | 6720 | 18.87 | 50800 | 1.65 | TFAF 128 | MY 250M4 | 126 |
| | 90 | 5820 | 16.36 | 50100 | 1.90 | TF 128 | MY 250M4 | 125 |
| | 101 | 5180 | 14.55 | 49400 | 2.1 | TFF 128 | MY 250M4 | 126 |
| | 118 | 4470 | 12.54 | 48400 | 2.2 | | | |
| | 145 | 3630 | 10.19 | 46800 | 2.6 | | | |
| | 166 | 3160 | 8.86 | 45100 | 2.2 | | | |
| | 187 | 2810 | 7.88 | 44200 | 2.1 | | | |




| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | fs |  |  | Page | |
|------------------|------------------|------------------|--------|---------------|-------|--|---|----------|-----|
| 55 | 217 | 2420 | 6.80 | 42900 | 2.9 | TFA 128 | MY 250M4 | 127 | |
| | 267 | 1970 | 5.52 | 41100 | 3.1 | TFAF 128 | MY 250M4 | 126 | |
| | 315 | 1670 | 4.68 | 39600 | 3.6 | TF 128 | MY 250M4 | 125 | |
| | | | | | | TFF 128 | MY 250M4 | 126 | |
| 75 | 32 | 22500 | 46.48* | 62900 | 0.80 | TFA 158 | MY 280S4 | 131 | |
| | 37 | 19400 | 40.06 | 64400 | 0.95 | TFAF 158 | MY 280S4 | 130 | |
| | 45 | 15800 | 32.55 | 65400 | 1.15 | TF 158 | MY 280S4 | 129 | |
| | 54 | 13400 | 27.60 | 65500 | 1.35 | TFF 158 | MY 280S4 | 130 | |
| | 52 | 13800 | 28.60* | 65500 | 1.25 | TFA 158 | MY 280S4 | 131 | |
| | 58 | 12300 | 25.43 | 65400 | 1.20 | TFAF 158 | MY 280S4 | 130 | |
| | 67 | 10700 | 22.16 | 64900 | 1.70 | TF 158 | MY 280S4 | 129 | |
| | 75 | 9570 | 19.77 | 64300 | 1.80 | TFF 158 | MY 280S4 | 130 | |
| | 88 | 8150 | 16.85 | 63200 | 2.2 | | | | |
| | 106 | 6760 | 13.96 | 61600 | 2.5 | | | | |
| | 124 | 5770 | 11.92 | 60100 | 2.8 | | | | |
| | 58 | 12200 | 25.30 | 44000 | 1.00 | TFA 128 | MY 280S4 | 127 | |
| | | | | | | TFAF 128 | MY 280S4 | 126 | |
| | | | | | | TF 128 | MY 280S4 | 125 | |
| | | | | | | TFF 128 | MY 280S4 | 126 | |
| | 69 | 10300 | 21.38 | 44800 | 1.15 | TFA 128 | MY 280S4 | 127 | |
| | 78 | 9130 | 18.87 | 45100 | 1.20 | TFAF 128 | MY 280S4 | 126 | |
| | 90 | 7920 | 16.36 | 45200 | 1.40 | TF 128 | MY 280S4 | 125 | |
| | 102 | 7040 | 14.55 | 45000 | 1.55 | TFF 128 | MY 280S4 | 126 | |
| | 118 | 6070 | 12.54 | 44600 | 1.65 | | | | |
| | 145 | 4930 | 10.19 | 43700 | 1.95 | | | | |
| | 167 | 4290 | 8.86 | 42200 | 1.65 | | | | |
| | 188 | 3810 | 7.88 | 41600 | 1.55 | | | | |
| | 218 | 3290 | 6.80 | 40700 | 2.1 | | | | |
| | 268 | 2670 | 5.52 | 39300 | 2.3 | | | | |
| | 316 | 2270 | 4.68 | 38100 | 2.7 | | | | |
| | 90 | 45 | 18900 | 32.55 | 59100 | 0.95 | TFA 158 | MY 280M4 | 131 |
| | | 54 | 16000 | 27.60 | 60200 | 1.10 | TFAF 158 | MY 280M4 | 130 |
| TF 158 | | | | | | | MY 280M4 | 129 | |
| TFF 158 | | | | | | | MY 280M4 | 130 | |
| TFA 158 | | | | | | | MY 280M4 | 131 | |
| 67 | | 12900 | 22.16 | 60600 | 1.40 | TFAF 158 | MY 280M4 | 130 | |
| 75 | | 11500 | 19.77 | 60500 | 1.50 | TF 158 | MY 280M4 | 129 | |
| 88 | | 9790 | 16.85 | 59900 | 1.85 | TFF 158 | MY 280M4 | 130 | |
| 106 | | 8110 | 13.96 | 58900 | 2.1 | | | | |
| 124 | | 6920 | 11.92 | 57800 | 2.3 | | | | |
| 58 | | 14700 | 25.30 | 33100 | 0.80 | TFA 128 | MY 280M4 | 127 | |
| | | | | | | TFAF 128 | MY 280M4 | 126 | |
| | | | | | | TF 128 | MY 280M4 | 125 | |
| | | | | | | TFF 128 | MY 280M4 | 126 | |
| 90 | | 9500 | 16.36 | 41500 | 1.15 | TFA 128 | MY 280M4 | 127 | |
| 102 | | 8450 | 14.55 | 41700 | 1.30 | TFAF 128 | MY 280M4 | 126 | |
| 118 | | 7280 | 12.54 | 41800 | 1.35 | TF 128 | MY 280M4 | 125 | |
| 145 | | 5920 | 10.19 | 41400 | 1.60 | TFF 128 | MY 280M4 | 126 | |
| 167 | | 5150 | 8.86 | 40100 | 1.35 | | | | |
| 188 | | 4580 | 7.88 | 39700 | 1.30 | | | | |
| 218 | | 3950 | 6.80 | 39000 | 1.75 | | | | |
| 268 | | 3210 | 5.52 | 37900 | 1.85 | | | | |
| 316 | | 2720 | 4.68 | 36900 | 2.2 | | | | |
| 110 | | 54 | 19500 | 27.60 | 53100 | 0.90 | TFA 158 | MY 315S4 | 131 |
| | | | | | | | TFAF 158 | MY 315S4 | 130 |
| | | | | | | | TF 158 | MY 315S4 | 129 |
| | | | | | | | TFF 158 | MY 315S4 | 130 |



| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  |  | Page |
|------------------|------------------|------------------|-------|-----------------|-------|--|---|------|
| 110 | 67 | 15700 | 22.16 | 54900 | 1.15 | TFA 158 | MY 315S4 | 131 |
| | 75 | 14000 | 19.77 | 55400 | 1.20 | TFAF 158 | MY 315S4 | 130 |
| | 88 | 11900 | 16.85 | 55600 | 1.50 | TF 158 | MY 315S4 | 129 |
| | 106 | 9880 | 13.96 | 55300 | 1.70 | TFF 158 | MY 315S4 | 130 |
| | 125 | 8430 | 11.92 | 54700 | 1.90 | | | |
| 132 | 67 | 18800 | 22.16 | 48700 | 0.95 | TFA 158 | MY 315M4 | 131 |
| | 75 | 16800 | 19.77 | 49800 | 1.00 | TFAF 158 | MY 315M4 | 130 |
| | 88 | 14300 | 16.85 | 50900 | 1.25 | TF 158 | MY 315M4 | 129 |
| | 106 | 11900 | 13.96 | 51400 | 1.45 | TFF 158 | MY 315M4 | 130 |
| | 125 | 10100 | 11.92 | 51400 | 1.60 | | | |
| 160 | 88 | 17300 | 16.85 | 44800 | 1.05 | TFA 158 | MY 315M4A | 131 |
| | 106 | 14400 | 13.96 | 46400 | 1.20 | TFAF 158 | MY 315M4A | 130 |
| | 125 | 12300 | 11.92 | 47100 | 1.30 | TF 158 | MY 315M4A | 129 |
| | | | | | | TFF 158 | MY 315M4A | 130 |
| 200 | 88 | 21700 | 16.85 | 36100 | 0.85 | TFA 158 | MY 315M4B | 131 |
| | 106 | 18000 | 13.96 | 39200 | 0.95 | TFAF 158 | MY 315M4B | 130 |
| | 125 | 15300 | 11.92 | 41000 | 1.05 | TF 158 | MY 315M4B | 129 |
| | | | | | | TFF 158 | MY 315M4B | 130 |



6.3 TF.. / TRF..MY.. Performance parameter



| $M_{2 \max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  | |  | Page |
|----------------------|------------------|------|-----------------|--|------------|---|------|
| 130 | 0.15 | 8972 | 4500 | TFA | 28 / TRF18 | MY 63S4 | 133 |
| | 0.18 | 7736 | 4500 | TFAF | 28 / TRF18 | MY 63S4 | 133 |
| | 0.19 | 7211 | 4500 | TF | 28 / TRF18 | MY 63S4 | 133 |
| | 0.22 | 6303 | 4500 | TFF | 28 / TRF18 | MY 63S4 | 133 |
| | 0.25 | 5435 | 4500 | | | | |
| | 0.28 | 4855 | 4500 | | | | |
| | 0.33 | 4243 | 4500 | | | | |
| | 0.37 | 3715 | 4500 | | | | |
| | 0.43 | 3247 | 4500 | | | | |
| | 0.48 | 2878 | 4500 | | | | |
| | 0.55 | 2515 | 4500 | | | | |
| | 0.62 | 2217 | 4500 | | | | |
| | 0.73 | 1898 | 4500 | TFA | 28 / TRF18 | MY 63S4 | 133 |
| | 0.84 | 1645 | 4500 | TFAF | 28 / TRF18 | MY 63S4 | 133 |
| | 0.90 | 1525 | 4500 | TF | 28 / TRF18 | MY 63S4 | 133 |
| | 1.0 | 1322 | 4500 | TFF | 28 / TRF18 | MY 63S4 | 133 |
| | 1.2 | 1146 | 4500 | | | | |
| | 1.4 | 1013 | 4500 | | | | |
| | 1.6 | 890 | 4500 | | | | |
| | 1.8 | 778 | 4500 | | | | |
| | 2.0 | 682 | 4500 | | | | |
| | 2.3 | 602 | 4500 | | | | |
| | 2.6 | 520 | 4500 | | | | |
| | 3.0 | 458 | 4500 | TFA | 28 / TRF18 | MY 63S4 | 133 |
| | 3.5 | 397 | 4500 | TFAF | 28 / TRF18 | MY 63S4 | 133 |
| | 4.0 | 342 | 4500 | TF | 28 / TRF18 | MY 63S4 | 133 |
| | 4.6 | 302 | 4500 | TFF | 28 / TRF18 | MY 63S4 | 133 |
| | 5.2 | 266 | 4500 | | | | |
| | 5.9 | 236 | 4500 | | | | |
| | 6.5 | 211 | 4500 | | | | |
| | 7.1 | 186 | 4500 | TFA | 28 / TRF18 | MY 63M4 | 133 |
| | 9.3 | 142 | 4500 | TFAF | 28 / TRF18 | MY 63M4 | 133 |
| | 11 | 124 | 4500 | TF | 28 / TRF18 | MY 63M4 | 133 |
| | | | TFF | 28 / TRF18 | MY 63M4 | 133 | |
| 12 | 109 | 4500 | TFA | 28 / TRF18 | MY 63L4 | 133 | |
| 14 | 96 | 4500 | TFAF | 28 / TRF18 | MY 63L4 | 133 | |
| | | | TF | 28 / TRF18 | MY 63L4 | 133 | |
| | | | TFF | 28 / TRF18 | MY 63L4 | 133 | |
| 200 | 0.17 | 8193 | 4290 | TFA | 38 / TRF18 | MY 63S4 | 133 |
| | 0.20 | 7064 | 4290 | TFAF | 38 / TRF18 | MY 63S4 | 133 |
| | 0.21 | 6585 | 4290 | TF | 38 / TRF18 | MY 63S4 | 133 |
| | 0.24 | 5756 | 4290 | TFF | 38 / TRF18 | MY 63S4 | 133 |
| | 0.28 | 4963 | 4290 | | | | |
| | 0.31 | 4434 | 4290 | | | | |
| | 0.36 | 3875 | 4290 | | | | |
| | 0.41 | 3392 | 4290 | | | | |
| | 0.47 | 2965 | 4290 | | | | |
| | 0.53 | 2587 | 4290 | | | | |
| | 0.60 | 2284 | 4290 | | | | |
| | 0.69 | 1997 | 4290 | | | | |



| $M_{2\ max}$ [Nm] | n_2 [r/min] | i | F_{r_2} [N] |  |  | Page | | |
|----------------------|------------------|------|------------------|--|---|------------|---------|-----|
| 200 | 0.72 | 1929 | 4290 | TFA | 38 / TRF18 | MY 63S4 | 133 | |
| | 0.82 | 1679 | 4290 | TFAF | 38 / TRF18 | MY 63S4 | 133 | |
| | 0.89 | 1550 | 4290 | TF | 38 / TRF18 | MY 63S4 | 133 | |
| | 1.0 | 1356 | 4290 | TFF | 38 / TRF18 | MY 63S4 | 133 | |
| | 1.2 | 1180 | 4290 | | | | | |
| | 1.3 | 1044 | 4290 | | | | | |
| | 1.5 | 914 | 4290 | | | | | |
| | 1.7 | 808 | 4290 | | | | | |
| | 2.0 | 698 | 4290 | | | | | |
| | 2.2 | 616 | 4290 | | | | | |
| | 2.5 | 544 | 4290 | | | | | |
| | 3.0 | 466 | 4290 | | | | | |
| | 3.4 | 411 | 4290 | | | | | |
| | 3.8 | 364 | 4290 | | | | | |
| | 4.2 | 326 | 4290 | TFA | 38 / TRF18 | MY 63S4 | 133 | |
| | | | | TFAF | 38 / TRF18 | MY 63S4 | 133 | |
| | | | | TF | 38 / TRF18 | MY 63S4 | 133 | |
| | | | | TFF | 38 / TRF18 | MY 63S4 | 133 | |
| | 4.6 | 285 | 4290 | TFA | 38 / TRF18 | MY 63M4 | 133 | |
| | 5.3 | 250 | 4290 | TFAF | 38 / TRF18 | MY 63M4 | 133 | |
| | 6.0 | 219 | 4290 | TF | 38 / TRF18 | MY 63M4 | 133 | |
| | 7.1 | 186 | 4290 | TFF | 38 / TRF18 | MY 63M4 | 133 | |
| | 7.8 | 167 | 4290 | TFA | 38 / TRF18 | MY 63L4 | 133 | |
| | 8.9 | 145 | 4290 | TFAF | 38 / TRF18 | MY 63L4 | 133 | |
| | 10 | 129 | 4290 | TF | 38 / TRF18 | MY 63L4 | 133 | |
| | | | | TFF | 38 / TRF18 | MY 63L4 | 133 | |
| | 400 | 0.11 | 12251 | 5920 | TFA | 48 / TRF18 | MY 63S4 | 133 |
| | | 0.13 | 10619 | 5920 | TFAF | 48 / TRF18 | MY 63S4 | 133 |
| 0.14 | | 9846 | 5920 | TF | 48 / TRF18 | MY 63S4 | 133 | |
| 0.16 | | 8534 | 5920 | TFF | 48 / TRF18 | MY 63S4 | 133 | |
| 0.19 | | 7460 | 5920 | | | | | |
| 0.21 | | 6536 | 5920 | | | | | |
| 0.24 | | 5746 | 5920 | | | | | |
| 0.27 | | 5022 | 5920 | | | | | |
| 0.31 | | 4401 | 5920 | | | | | |
| 0.36 | | 3883 | 5920 | | | | | |
| 0.40 | | 3443 | 5920 | | | | | |
| 0.46 | | 2976 | 5920 | | | | | |
| 0.52 | | 2629 | 5920 | | | | | |
| 0.55 | | 2519 | 5920 | TFA | 48 / TRF18 | MY 63S4 | 133 | |
| 0.58 | | 2394 | 5920 | TFAF | 48 / TRF18 | MY 63S4 | 133 | |
| 0.64 | | 2172 | 5920 | TF | 48 / TRF18 | MY 63S4 | 133 | |
| 0.68 | | 2025 | 5920 | TFF | 48 / TRF18 | MY 63S4 | 133 | |
| 0.78 | | 1770 | 5920 | | | | | |
| 0.88 | | 1576 | 5920 | | | | | |
| 1.0 | | 1363 | 5920 | | | | | |
| 1.2 | | 1192 | 5920 | | | | | |
| 1.3 | | 1061 | 5920 | | | | | |
| 1.5 | | 931 | 5920 | | | | | |
| 1.7 | | 822 | 5920 | | | | | |
| 2.0 | | 706 | 5920 | | | | | |
| 2.1 | | 619 | 5920 | TFA | 48 / TRF18 | MY 63M4 | 133 | |
| | | | | TFAF | 48 / TRF18 | MY 63M4 | 133 | |
| | | | | TF | 48 / TRF18 | MY 63M4 | 133 | |
| | | | | TFF | 48 / TRF18 | MY 63M4 | 133 | |



| $M_2 \text{ max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  |  |  | Page |
|---------------------------|------------------|-------|-----------------|---|--|---|------|
| 400 | 2.5 | 524 | 5920 | TFA | 48 / TRF18 | MY 63M4 | 133 |
| | 2.7 | 489 | 5920 | TFAF | 48 / TRF18 | MY 63M4 | 133 |
| | 3.1 | 427 | 5920 | TF | 48 / TRF18 | MY 63M4 | 133 |
| | 3.5 | 381 | 5920 | TFF | 48 / TRF18 | MY 63M4 | 133 |
| | 3.9 | 334 | 5920 | TFA | 48 / TRF18 | MY 63L4 | 133 |
| | 4.4 | 295 | 5920 | TFAF | 48 / TRF18 | MY 63L4 | 133 |
| | 5.1 | 253 | 5920 | TF | 48 / TRF18 | MY 63L4 | 133 |
| | | | | TFF | 48 / TRF18 | MY 63L4 | 133 |
| | 6.4 | 217 | 5920 | TFA | 48 / TRF18 | MY 71D4 | 133 |
| | 7.3 | 190 | 5920 | TFAF | 48 / TRF18 | MY 71D4 | 133 |
| | 7.8 | 178 | 5920 | TF | 48 / TRF18 | MY 71D4 | 133 |
| | | | | TFF | 48 / TRF18 | MY 71D4 | 133 |
| | 9.1 | 149 | 5920 | TFA | 48 / TRF18 | MY 80K4 | 133 |
| | 10 | 131 | 5920 | TFAF | 48 / TRF18 | MY 80K4 | 133 |
| | | | | TF | 48 / TRF18 | MY 80K4 | 133 |
| | | | | TFF | 48 / TRF18 | MY 80K4 | 133 |
| 600 | 0.09 | 14832 | 9200 | TFA | 58 / TRF38 | MY 63S4 | 133 |
| | 0.10 | 13604 | 9200 | TFAF | 58 / TRF38 | MY 63S4 | 133 |
| | 0.11 | 12602 | 9200 | TF | 58 / TRF38 | MY 63S4 | 133 |
| | 0.12 | 11252 | 9200 | TFF | 58 / TRF38 | MY 63S4 | 133 |
| | 0.14 | 9986 | 9200 | | | | |
| | 0.16 | 8787 | 9200 | | | | |
| | 0.17 | 7908 | 9200 | | | | |
| | 0.20 | 6913 | 9200 | | | | |
| | 0.23 | 6030 | 9200 | | | | |
| | 0.26 | 5289 | 9200 | | | | |
| | 0.30 | 4654 | 9200 | | | | |
| | 0.34 | 4060 | 9200 | | | | |
| | 0.39 | 3564 | 9200 | | | | |
| | 0.44 | 3161 | 9200 | | | | |
| | 0.48 | 2854 | 9200 | TFA | 58 / TRF38 | MY 63S4 | 133 |
| | 0.54 | 2576 | 9200 | TFAF | 58 / TRF38 | MY 63S4 | 133 |
| | 0.61 | 2266 | 9200 | TF | 58 / TRF38 | MY 63S4 | 133 |
| | 0.69 | 2012 | 9200 | TFF | 58 / TRF38 | MY 63S4 | 133 |
| | 0.77 | 1791 | 9200 | | | | |
| | 0.85 | 1617 | 9200 | | | | |
| | 0.97 | 1422 | 9200 | | | | |
| | 1.1 | 1243 | 9200 | | | | |
| | 1.3 | 1066 | 9200 | | | | |
| | 1.4 | 949 | 9200 | | | | |
| | 1.5 | 856 | 9200 | TFA | 58 / TRF38 | MY 63M4 | 133 |
| | 1.8 | 749 | 9200 | TFAF | 58 / TRF38 | MY 63M4 | 133 |
| | 2.0 | 658 | 9200 | TF | 58 / TRF38 | MY 63M4 | 133 |
| | | | | TFF | 58 / TRF38 | MY 63M4 | 133 |
| | 2.4 | 549 | 9200 | TFA | 58 / TRF38 | MY 63L4 | 133 |
| | 2.7 | 483 | 9200 | TFAF | 58 / TRF38 | MY 63L4 | 133 |
| | | | | TF | 58 / TRF38 | MY 63L4 | 133 |
| | | | | TFF | 58 / TRF38 | MY 63L4 | 133 |
| | 3.1 | 426 | 9200 | TFA | 58 / TRF38 | MY 63L4 | 133 |
| | 3.4 | 382 | 9200 | TFAF | 58 / TRF38 | MY 63L4 | 133 |
| | | | TF | 58 / TRF38 | MY 63L4 | 133 | |
| | | | TFF | 58 / TRF38 | MY 63L4 | 133 | |
| 4.2 | 330 | 9200 | TFA | 58 / TRF38 | MY 71D4 | 133 | |
| 4.6 | 298 | 9200 | TFAF | 58 / TRF38 | MY 71D4 | 133 | |
| 5.3 | 262 | 9200 | TF | 58 / TRF38 | MY 71D4 | 133 | |
| | | | TFF | 58 / TRF38 | MY 71D4 | 133 | |



| $M_{2\ max}$ [Nm] | n_2 [r/min] | i | F_{r_2} [N] |  |  | Page | | |
|----------------------|------------------|-------|------------------|--|---|------------|---------|-----|
| 600 | 6.0 | 226 | 9200 | TFA | 58 / TRF38 | MY 80K4 | 133 | |
| | 6.8 | 200 | 9200 | TFAF | 58 / TRF38 | MY 80K4 | 133 | |
| | | | | TF | 58 / TRF38 | MY 80K4 | 133 | |
| | | | | TFF | 58 / TRF38 | MY 80K4 | 133 | |
| | 8.1 | 170 | 9200 | TFA | 58 / TRF38 | MY 80N4 | 133 | |
| | 9.1 | 152 | 9200 | TFAF | 58 / TRF38 | MY 80N4 | 133 | |
| | 10 | 134 | 9200 | TF | 58 / TRF38 | MY 80N4 | 133 | |
| | | | | TFF | 58 / TRF38 | MY 80N4 | 133 | |
| | 820 | 0.07 | 19199 | 10300 | TFA | 68 / TRF38 | MY 63S4 | 133 |
| | | 0.08 | 17610 | 10300 | TFAF | 68 / TRF38 | MY 63S4 | 133 |
| 0.09 | | 14992 | 10300 | TF | 68 / TRF38 | MY 63S4 | 133 | |
| 0.11 | | 12926 | 10300 | TFF | 68 / TRF38 | MY 63S4 | 133 | |
| 0.12 | | 11480 | 10300 | | | | | |
| 0.14 | | 10220 | 10300 | | | | | |
| 0.15 | | 8933 | 10300 | | | | | |
| 0.17 | | 7940 | 10300 | | | | | |
| 0.19 | | 7096 | 10300 | | | | | |
| 0.23 | | 6080 | 10300 | | | | | |
| 0.26 | | 5341 | 10300 | | | | | |
| 0.29 | | 4690 | 10300 | | | | | |
| 0.34 | | 4091 | 10300 | | | | | |
| 0.39 | | 3574 | 10300 | | | | | |
| 0.44 | | 3133 | 10300 | | | | | |
| 0.50 | | 2756 | 10300 | | | | | |
| 0.57 | | 2439 | 10300 | | | | | |
| 0.41 | | 3377 | 10300 | TFA | 68 / TRF38 | MY 63S4 | 133 | |
| 0.47 | | 2912 | 10300 | TFAF | 68 / TRF38 | MY 63S4 | 133 | |
| 0.51 | | 2714 | 10300 | TF | 68 / TRF38 | MY 63S4 | 133 | |
| 0.58 | | 2372 | 10300 | TFF | 68 / TRF38 | MY 63S4 | 133 | |
| 0.65 | | 2126 | 10300 | | | | | |
| 0.85 | | 1631 | 10300 | | | | | |
| 0.96 | | 1437 | 10300 | | | | | |
| 1.1 | | 1256 | 10300 | | | | | |
| 1.2 | | 1126 | 10300 | TFA | 68 / TRF38 | MY 63M4 | 133 | |
| 1.3 | | 984 | 10300 | TFAF | 68 / TRF38 | MY 63M4 | 133 | |
| 1.5 | | 864 | 10300 | TF | 68 / TRF38 | MY 63M4 | 133 | |
| | | | | TFF | 68 / TRF38 | MY 63M4 | 133 | |
| 1.8 | | 722 | 10300 | TFA | 68 / TRF38 | MY 63L4 | 133 | |
| 2.0 | | 634 | 10300 | TFAF | 68 / TRF38 | MY 63L4 | 133 | |
| 2.4 | | 539 | 10300 | TF | 68 / TRF38 | MY 63L4 | 133 | |
| | | | | TFF | 68 / TRF38 | MY 63L4 | 133 | |
| 0.73 | | 1884 | 10300 | TFA | 68 / TRF38 | MY 63S4 | 133 | |
| | | | | TFAF | 68 / TRF38 | MY 63S4 | 133 | |
| | | | | TF | 68 / TRF38 | MY 63S4 | 133 | |
| | | | | TFF | 68 / TRF38 | MY 63S4 | 133 | |
| 2.8 | | 500 | 10300 | TFA | 68 / TRF38 | MY 71D4 | 133 | |
| 3.0 | | 454 | 10300 | TFAF | 68 / TRF38 | MY 71D4 | 133 | |
| 3.5 | | 392 | 10300 | TF | 68 / TRF38 | MY 71D4 | 133 | |
| | | | | TFF | 68 / TRF38 | MY 71D4 | 133 | |
| 4.1 | | 333 | 10300 | TFA | 68 / TRF38 | MY 80K4 | 133 | |
| 4.6 | | 297 | 10300 | TFAF | 68 / TRF38 | MY 80K4 | 133 | |
| 5.2 | | 261 | 10300 | TF | 68 / TRF38 | MY 80K4 | 133 | |
| 5.7 | | 238 | 10300 | TFF | 68 / TRF38 | MY 80K4 | 133 | |
| 6.9 | | 200 | 10300 | TFA | 68 / TRF38 | MY 80N4 | 133 | |
| | | | | TFAF | 68 / TRF38 | MY 80N4 | 133 | |
| | | | | TF | 68 / TRF38 | MY 80N4 | 133 | |
| | | | | TFF | 68 / TRF38 | MY 80N4 | 133 | |



| $M_2 \text{ max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  |  | Page | |
|---------------------------|------------------|-------|-----------------|--|---|---------|-----|
| 1500 | 0.07 | 19180 | 15700 | TFA | 78 / TRF38 | MY 63S4 | 133 |
| | 0.08 | 17593 | 15700 | TFAF | 78 / TRF38 | MY 63S4 | 133 |
| | 0.09 | 16128 | 15700 | TF | 78 / TRF38 | MY 63S4 | 133 |
| | 0.09 | 14978 | 15700 | TFF | 78 / TRF38 | MY 63S4 | 133 |
| | 0.10 | 13731 | 15700 | | | | |
| | 0.11 | 12049 | 15700 | | | | |
| | 0.13 | 11035 | 15700 | | | | |
| | 0.14 | 9683 | 15700 | | | | |
| | 0.16 | 8464 | 15700 | | | | |
| | 0.18 | 7520 | 15700 | | | | |
| | 0.21 | 6580 | 15700 | | | | |
| | 0.24 | 5808 | 15700 | | | | |
| | 0.27 | 5026 | 15700 | | | | |
| | 0.31 | 4435 | 15700 | | | | |
| | 0.36 | 3832 | 15700 | | | | |
| | 0.46 | 2978 | 15700 | | | | |
| | 0.53 | 2613 | 15700 | | | | |
| | 0.60 | 2284 | 15700 | | | | |
| | 0.65 | 2029 | 15700 | TFA | 78 / TRF38 | MY 63M4 | 133 |
| | | | | TFAF | 78 / TRF38 | MY 63M4 | 133 |
| | | | | TF | 78 / TRF38 | MY 63M4 | 133 |
| | | | | TFF | 78 / TRF38 | MY 63M4 | 133 |
| | 0.76 | 1728 | 15700 | TFA | 78 / TRF38 | MY 63M4 | 133 |
| | 0.86 | 1544 | 15700 | TFAF | 78 / TRF38 | MY 63M4 | 133 |
| | 0.98 | 1354 | 15700 | TF | 78 / TRF38 | MY 63M4 | 133 |
| | | | | TFF | 78 / TRF38 | MY 63M4 | 133 |
| | 1.1 | 1200 | 15700 | TFA | 78 / TRF38 | MY 63L4 | 133 |
| | 1.2 | 1053 | 15700 | TFAF | 78 / TRF38 | MY 63L4 | 133 |
| | | | | TF | 78 / TRF38 | MY 63L4 | 133 |
| | | | | TFF | 78 / TRF38 | MY 63L4 | 133 |
| | 1.5 | 910 | 15700 | TFA | 78 / TRF38 | MY 71D4 | 133 |
| | 1.7 | 810 | 15700 | TFAF | 78 / TRF38 | MY 71D4 | 133 |
| | 1.9 | 710 | 15700 | TF | 78 / TRF38 | MY 71D4 | 133 |
| | | | | TFF | 78 / TRF38 | MY 71D4 | 133 |
| | 2.2 | 615 | 15700 | TFA | 78 / TRF38 | MY 80K4 | 133 |
| | 2.5 | 538 | 15700 | TFAF | 78 / TRF38 | MY 80K4 | 133 |
| | 2.8 | 480 | 15700 | TF | 78 / TRF38 | MY 80K4 | 133 |
| | | | | TFF | 78 / TRF38 | MY 80K4 | 133 |
| | 3.4 | 413 | 15700 | TFA | 78 / TRF38 | MY 80N4 | 133 |
| | 3.8 | 367 | 15700 | TFAF | 78 / TRF38 | MY 80N4 | 133 |
| 4.3 | 323 | 15700 | TF | 78 / TRF38 | MY 80N4 | 133 | |
| | | | TFF | 78 / TRF38 | MY 80N4 | 133 | |
| 3000 | 0.06 | 23042 | 19800 | TFA | 88 / TRF58 | MY 63S4 | 133 |
| | 0.07 | 20462 | 19800 | TFAF | 88 / TRF58 | MY 63S4 | 133 |
| | 0.08 | 18238 | 19800 | TF | 88 / TRF58 | MY 63S4 | 133 |
| | 0.09 | 15877 | 19800 | TFF | 88 / TRF58 | MY 63S4 | 133 |
| | 0.10 | 14099 | 19800 | | | | |
| | 0.11 | 12205 | 19800 | | | | |
| | 0.13 | 10433 | 19800 | | | | |
| | 0.15 | 9381 | 19800 | | | | |
| | 0.17 | 8142 | 19800 | | | | |
| | 0.19 | 7100 | 19800 | | | | |
| | 0.22 | 6273 | 19800 | | | | |
| | 0.25 | 5510 | 19800 | | | | |
| | 0.28 | 4954 | 19800 | | | | |

| $M_{2\ max}$ [Nm] | n_2 [r/min] | i | F_{r_2} [N] |  |  | Page | |
|----------------------|------------------|-------|------------------|--|---|---------|-----|
| 3000 | 0.31 | 4245 | 19800 | TFA | 88 / TRF58 | MY 63M4 | 133 |
| | 0.35 | 3721 | 19800 | TFAF | 88 / TRF58 | MY 63M4 | 133 |
| | | | | TF | 88 / TRF58 | MY 63M4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 63M4 | 133 |
| | 0.41 | 3244 | 19800 | TFA | 88 / TRF58 | MY 63M4 | 133 |
| | 0.46 | 2881 | 19800 | TFAF | 88 / TRF58 | MY 63M4 | 133 |
| | | | | TF | 88 / TRF58 | MY 63M4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 63M4 | 133 |
| | 0.50 | 2576 | 19800 | TFA | 88 / TRF58 | MY 63L4 | 133 |
| | 0.59 | 2199 | 19800 | TFAF | 88 / TRF58 | MY 63L4 | 133 |
| | 0.67 | 1930 | 19800 | TF | 88 / TRF58 | MY 63L4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 63L4 | 133 |
| | 0.81 | 1709 | 19800 | TFA | 88 / TRF58 | MY 71D4 | 133 |
| | 0.92 | 1493 | 19800 | TFAF | 88 / TRF58 | MY 71D4 | 133 |
| | | | | TF | 88 / TRF58 | MY 71D4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 71D4 | 133 |
| | 1.1 | 1300 | 19800 | TFA | 88 / TRF58 | MY 80K4 | 133 |
| | 1.2 | 1148 | 19800 | TFAF | 88 / TRF58 | MY 80K4 | 133 |
| | 1.4 | 1010 | 19800 | TF | 88 / TRF58 | MY 80K4 | 133 |
| | 1.5 | 887 | 19800 | TFF | 88 / TRF58 | MY 80K4 | 133 |
| | 1.8 | 780 | 19800 | TFA | 88 / TRF58 | MY 80N4 | 133 |
| | 2.0 | 674 | 19800 | TFAF | 88 / TRF58 | MY 80N4 | 133 |
| | | | | TF | 88 / TRF58 | MY 80N4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 80N4 | 133 |
| | 2.3 | 609 | 19800 | TFA | 88 / TRF58 | MY 90S4 | 133 |
| | 2.7 | 515 | 19800 | TFAF | 88 / TRF58 | MY 90S4 | 133 |
| | 3.1 | 452 | 19800 | TF | 88 / TRF58 | MY 90S4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 90S4 | 133 |
| | 4.1 | 345 | 19800 | TFA | 88 / TRF58 | MY 90L4 | 133 |
| | | | | TFAF | 88 / TRF58 | MY 90L4 | 133 |
| | | | | TF | 88 / TRF58 | MY 90L4 | 133 |
| | | | | TFF | 88 / TRF58 | MY 90L4 | 133 |
| 4300 | 0.07 | 20813 | 29900 | TFA | 98 / TRF58 | MY 63S4 | 133 |
| | 0.08 | 18119 | 29900 | TFAF | 98 / TRF58 | MY 63S4 | 133 |
| | 0.09 | 15472 | 29900 | TF | 98 / TRF58 | MY 63S4 | 133 |
| | 0.10 | 14022 | 29900 | TFF | 98 / TRF58 | MY 63S4 | 133 |
| | 0.11 | 12324 | 29900 | | | | |
| | 0.13 | 10838 | 29900 | | | | |
| | 0.14 | 9576 | 29900 | | | | |
| | 0.17 | 8318 | 29900 | | | | |
| | 0.19 | 7328 | 29900 | | | | |
| | 0.20 | 6469 | 29900 | TFA | 98 / TRF58 | MY 63M4 | 133 |
| | 0.24 | 5615 | 29900 | TFAF | 98 / TRF58 | MY 63M4 | 133 |
| | 0.27 | 4961 | 29900 | TF | 98 / TRF58 | MY 63M4 | 133 |
| | 0.30 | 4333 | 29900 | TFF | 98 / TRF58 | MY 63M4 | 133 |
| | 0.33 | 3906 | 29900 | TFA | 98 / TRF58 | MY 63L4 | 133 |
| | 0.39 | 3352 | 29900 | TFAF | 98 / TRF58 | MY 63L4 | 133 |
| | 0.45 | 2907 | 29900 | TF | 98 / TRF58 | MY 63L4 | 133 |
| | | | | TFF | 98 / TRF58 | MY 63L4 | 133 |
| | 0.54 | 2553 | 29900 | TFA | 98 / TRF58 | MY 71D4 | 133 |
| | 0.61 | 2245 | 29900 | TFAF | 98 / TRF58 | MY 71D4 | 133 |
| | 0.70 | 1970 | 29900 | TF | 98 / TRF58 | MY 71D4 | 133 |
| | | | | TFF | 98 / TRF58 | MY 71D4 | 133 |
| | 0.79 | 1722 | 29900 | TFA | 98 / TRF58 | MY 80K4 | 133 |
| 0.89 | 1527 | 29900 | TFAF | 98 / TRF58 | MY 80K4 | 133 | |
| 1.0 | 1327 | 29900 | TF | 98 / TRF58 | MY 80K4 | 133 | |
| | | | TFF | 98 / TRF58 | MY 80K4 | 133 | |

| $M_2 \text{ max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  |  | Page |
|---------------------------|------------------|-------|------------------|--|---|------|
| 4300 | 1.2 | 1171 | 29900 | TFA 98 / TRF58 | MY 80N4 | 133 |
| | 1.4 | 1022 | 29900 | TFAF 98 / TRF58 | MY 80N4 | 133 |
| | | | | TF 98 / TRF58 | MY 80N4 | 133 |
| | | | | TFF 98 / TRF58 | MY 80N4 | 133 |
| | 1.6 | 898 | 29900 | TFA 98 / TRF58 | MY 90S4 | 133 |
| | 1.8 | 784 | 29900 | TFAF 98 / TRF58 | MY 90S4 | 133 |
| | 2.0 | 690 | 29900 | TF 98 / TRF58 | MY 90S4 | 133 |
| | | | | TFF 98 / TRF58 | MY 90S4 | 133 |
| | 2.3 | 605 | 29900 | TFA 98 / TRF58 | MY 90L4 | 133 |
| | 2.7 | 529 | 29900 | TFAF 98 / TRF58 | MY 90L4 | 133 |
| | 3.0 | 467 | 29900 | TF 98 / TRF58 | MY 90L4 | 133 |
| | | | | TFF 98 / TRF58 | MY 90L4 | 133 |
| | 3.5 | 406 | 29900 | TFA 98 / TRF58 | MY 100M4 | 133 |
| | 3.9 | 363 | 29900 | TFAF 98 / TRF58 | MY 100M4 | 133 |
| | | | | TF 98 / TRF58 | MY 100M4 | 133 |
| | | | | TFF 98 / TRF58 | MY 100M4 | 133 |
| | 4.9 | 285 | 29900 | TFA 98 / TRF58 | MY 100L4 | 133 |
| | 5.7 | 245 | 29900 | TFAF 98 / TRF58 | MY 100L4 | 133 |
| | | | | TF 98 / TRF58 | MY 100L4 | 133 |
| | | | | TFF 98 / TRF58 | MY 100L4 | 133 |
| 7680 | 0.05 | 25375 | 49800 | TFA 108 / TRF78 | MY 63S4 | 133 |
| | 0.06 | 21652 | 49800 | TFAF 108 / TRF78 | MY 63S4 | 133 |
| | 0.07 | 18933 | 49800 | TF 108 / TRF78 | MY 63S4 | 133 |
| | 0.08 | 16888 | 49800 | TFF 108 / TRF78 | MY 63S4 | 133 |
| | 0.09 | 14767 | 49800 | | | |
| | 0.12 | 11348 | 49800 | TFA 108 / TRF78 | MY 63M4 | 133 |
| | 0.13 | 10039 | 49800 | TFAF 108 / TRF78 | MY 63M4 | 133 |
| | 0.15 | 8548 | 49800 | TF 108 / TRF78 | MY 63M4 | 133 |
| | 0.17 | 7674 | 49800 | TFF 108 / TRF78 | MY 63M4 | 133 |
| | 0.19 | 6767 | 49800 | TFA 108 / TRF78 | MY 63L4 | 133 |
| | 0.22 | 5954 | 49800 | TFAF 108 / TRF78 | MY 63L4 | 133 |
| | 0.25 | 5223 | 49800 | TF 108 / TRF78 | MY 63L4 | 133 |
| | | | | TFF 108 / TRF78 | MY 63L4 | 133 |
| | 0.30 | 4567 | 49800 | TFA 108 / TRF78 | MY 71D4 | 133 |
| | 0.39 | 3521 | 49800 | TFAF 108 / TRF78 | MY 71D4 | 133 |
| | | | | TF 108 / TRF78 | MY 71D4 | 133 |
| | | | | TFF 108 / TRF78 | MY 71D4 | 133 |
| | 0.45 | 3037 | 49800 | TFA 108 / TRF78 | MY 80K4 | 133 |
| | 0.49 | 2756 | 49800 | TFAF 108 / TRF78 | MY 80K4 | 133 |
| | 0.57 | 2369 | 49800 | TF 108 / TRF78 | MY 80K4 | 133 |
| | | | | TFF 108 / TRF78 | MY 80K4 | 133 |
| | 0.67 | 2068 | 49800 | TFA 108 / TRF78 | MY 80N4 | 133 |
| | 0.76 | 1826 | 49800 | TFAF 108 / TRF78 | MY 80N4 | 133 |
| | | | | TF 108 / TRF78 | MY 80N4 | 133 |
| | | | | TFF 108 / TRF78 | MY 80N4 | 133 |
| | 0.88 | 1597 | 49800 | TFA 108 / TRF78 | MY 90S4 | 133 |
| | 1.0 | 1401 | 49800 | TFAF 108 / TRF78 | MY 90S4 | 133 |
| | 1.1 | 1243 | 49800 | TF 108 / TRF78 | MY 90S4 | 133 |
| | | | | TFF 108 / TRF78 | MY 90S4 | 133 |
| | 1.3 | 1087 | 49800 | TFA 108 / TRF78 | MY 90L4 | 133 |
| 1.5 | 950 | 49800 | TFAF 108 / TRF78 | MY 90L4 | 133 | |
| | | | TF 108 / TRF78 | MY 90L4 | 133 | |
| | | | TFF 108 / TRF78 | MY 90L4 | 133 | |
| 1.7 | 834 | 49800 | TFA 108 / TRF78 | MY 100M4 | 133 | |
| 1.9 | 736 | 49800 | TFAF 108 / TRF78 | MY 100M4 | 133 | |
| 2.2 | 640 | 49800 | TF 108 / TRF78 | MY 100M4 | 133 | |
| | | | TFF 108 / TRF78 | MY 100M4 | 133 | |

| $M_{2\ max}$ [Nm] | n_2 [r/min] | i | F_{r_2} [N] |  |  | Page |
|----------------------|------------------|-------|------------------|--|---|------|
| 7680 | 2.5 | 560 | 49800 | TFA 108 / TRF78 | MY 100L4 | 133 |
| | 2.9 | 489 | 49800 | TFAF 108 / TRF78 | MY 100L4 | 133 |
| | 3.2 | 436 | 49800 | TF 108 / TRF78 | MY 100L4 | 133 |
| | | | | TFF 108 / TRF78 | MY 100L4 | 133 |
| | 3.8 | 370 | 49800 | TFA 108 / TRF78 | MY 112M4 | 133 |
| | 4.3 | 333 | 49800 | TFAF 108 / TRF78 | MY 112M4 | 133 |
| 12000 | 0.06 | 24478 | 90000 | TFA 128 / TRF78 | MY 63S4 | 133 |
| | 0.06 | 22323 | 90000 | TFAF 128 / TRF78 | MY 63S4 | 133 |
| | 0.07 | 19048 | 90000 | TF 128 / TRF78 | MY 63S4 | 133 |
| | | | | TFF 128 / TRF78 | MY 63S4 | 133 |
| | 0.08 | 16656 | 90000 | TFA 128 / TRF78 | MY 63M4 | 133 |
| | 0.09 | 14722 | 90000 | TFAF 128 / TRF78 | MY 63M4 | 133 |
| | 0.10 | 12912 | 90000 | TF 128 / TRF78 | MY 63M4 | 133 |
| | 0.11 | 11656 | 90000 | TFF 128 / TRF78 | MY 63M4 | 133 |
| | 0.13 | 10191 | 90000 | TFA 128 / TRF78 | MY 63L4 | 133 |
| | 0.15 | 8831 | 90000 | TFAF 128 / TRF78 | MY 63L4 | 133 |
| | | | | TF 128 / TRF78 | MY 63L4 | 133 |
| | | | | TFF 128 / TRF78 | MY 63L4 | 133 |
| | 0.18 | 7643 | 90000 | TFA 128 / TRF78 | MY 71D4 | 133 |
| | 0.21 | 6715 | 90000 | TFAF 128 / TRF78 | MY 71D4 | 133 |
| | 0.23 | 5925 | 90000 | TF 128 / TRF78 | MY 71D4 | 133 |
| | | | | TFF 128 / TRF78 | MY 71D4 | 133 |
| | 0.26 | 5153 | 90000 | TFA 128 / TRF78 | MY 80K4 | 133 |
| | 0.30 | 4533 | 90000 | TFAF 128 / TRF78 | MY 80K4 | 133 |
| | 0.35 | 3926 | 90000 | TF 128 / TRF78 | MY 80K4 | 133 |
| | | | | TFF 128 / TRF78 | MY 80K4 | 133 |
| | 0.40 | 3454 | 90000 | TFA 128 / TRF78 | MY 80N4 | 133 |
| | 0.46 | 3031 | 90000 | TFAF 128 / TRF78 | MY 80N4 | 133 |
| | | | | TF 128 / TRF78 | MY 80N4 | 133 |
| | | | | TFF 128 / TRF78 | MY 80N4 | 133 |
| | 0.52 | 2672 | 90000 | TFA 128 / TRF78 | MY 80N4 | 133 |
| | | | | TFAF 128 / TRF78 | MY 80N4 | 133 |
| | | | | TF 128 / TRF78 | MY 80N4 | 133 |
| | | | | TFF 128 / TRF78 | MY 80N4 | 133 |
| | 0.59 | 2357 | 90000 | TFA 128 / TRF78 | MY 90S4 | 133 |
| | 0.69 | 2038 | 90000 | TFAF 128 / TRF78 | MY 90S4 | 133 |
| | 0.79 | 1784 | 90000 | TF 128 / TRF78 | MY 90S4 | 133 |
| | | | | TFF 128 / TRF78 | MY 90S4 | 133 |
| | 0.88 | 1606 | 90000 | TFA 128 / TRF78 | MY 90L4 | 133 |
| | 1.0 | 1390 | 90000 | TFAF 128 / TRF78 | MY 90L4 | 133 |
| | | | | TF 128 / TRF78 | MY 90L4 | 133 |
| | | | | TFF 128 / TRF78 | MY 90L4 | 133 |
| 1.2 | 1220 | 90000 | TFA 128 / TRF78 | MY 100M4 | 133 | |
| 1.3 | 1077 | 90000 | TFAF 128 / TRF78 | MY 100M4 | 133 | |
| 1.5 | 930 | 90000 | TF 128 / TRF78 | MY 100M4 | 133 | |
| | | | TFF 128 / TRF78 | MY 100M4 | 133 | |
| 1.7 | 820 | 90000 | TFA 128 / TRF78 | MY 100L4 | 133 | |
| 1.9 | 727 | 90000 | TFAF 128 / TRF78 | MY 100L4 | 133 | |
| 2.2 | 648 | 90000 | TF 128 / TRF78 | MY 100L4 | 133 | |
| | | | TFF 128 / TRF78 | MY 100L4 | 133 | |
| 2.6 | 549 | 90000 | TFA 128 / TRF78 | MY 112M4 | 133 | |
| 2.9 | 495 | 90000 | TFAF 128 / TRF78 | MY 112M4 | 133 | |
| | | | TF 128 / TRF78 | MY 112M4 | 133 | |
| | | | TFF 128 / TRF78 | MY 112M4 | 133 | |

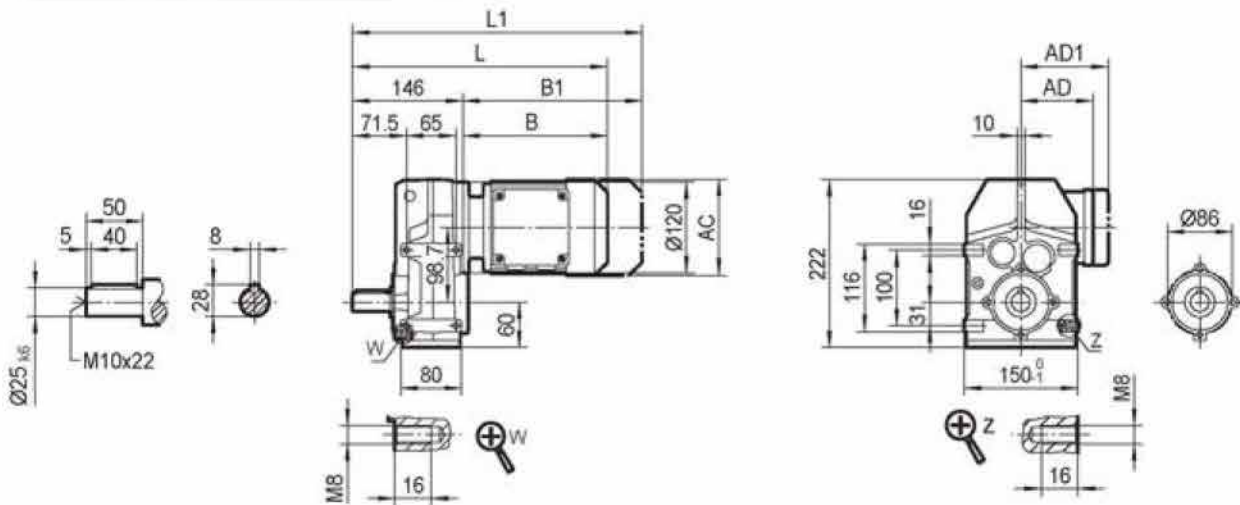
| $M_2 \text{ max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  |  | Page |
|---------------------------|------------------|--------|------------------|--|---|------|
| 12000 | 3.3 | 428 | 90000 | TFA 128 / TRF78 | MY 132S4 | 133 |
| | 3.8 | 376 | 90000 | TFAF 128 / TRF78 | MY 132S4 | 133 |
| | | | | TF 128 / TRF78 | MY 132S4 | 133 |
| | | | | TFF 128 / TRF78 | MY 132S4 | 133 |
| | 3.0 | 483 | 90000 | TFA 128 / TRF88 | MY 132S4 | 133 |
| | 3.4 | 418 | 90000 | TFAF 128 / TRF88 | MY 132S4 | 133 |
| | 3.8 | 374 | 90000 | TF 128 / TRF88 | MY 132S4 | 133 |
| | | | | TFF 128 / TRF88 | MY 132S4 | 133 |
| | 4.6 | 312 | 90000 | TFA 128 / TRF88 | MY 132M4 | 133 |
| | 4.9 | 293 | 90000 | TFAF 128 / TRF88 | MY 132M4 | 133 |
| | | | | TF 128 / TRF88 | MY 132M4 | 133 |
| | | | | TFF 128 / TRF88 | MY 132M4 | 133 |
| | 5.6 | 259 | 90000 | TFA 128 / TRF88 | MY 132ML4 | 133 |
| | 6.5 | 223 | 90000 | TFAF 128 / TRF88 | MY 132ML4 | 133 |
| | | | | TF 128 / TRF88 | MY 132ML4 | 133 |
| | | | | TFF 128 / TRF88 | MY 132ML4 | 133 |
| | 7.3 | 198 | 90000 | TFA 128 / TRF88 | MY 160M4 | 133 |
| | | | | TFAF 128 / TRF88 | MY 160M4 | 133 |
| | | | | TF 128 / TRF88 | MY 160M4 | 133 |
| | | | | TFF 128 / TRF88 | MY 160M4 | 133 |
| 18000 | 0.04 | 31434 | 100300 | TFA 158 / TRF98 | MY 80K4 | 133 |
| | 0.05 | 26173 | 100300 | TFAF 158 / TRF98 | MY 80K4 | 133 |
| | 0.06 | 23464 | 100300 | TF 158 / TRF98 | MY 80K4 | 133 |
| | 0.07 | 20212 | 100300 | TFF 158 / TRF98 | MY 80K4 | 133 |
| | 0.08 | 17984 | 100300 | | | |
| | 0.08 | 16358 | 100300 | | | |
| | 0.10 | 13751 | 100300 | | | |
| | 0.11 | 12235 | 100300 | | | |
| | 0.14 | 10033 | 100300 | TFA 158 / TRF98 | MY 90S4 | 133 |
| | 0.16 | 9021 | 100300 | TFAF 158 / TRF98 | MY 90S4 | 133 |
| | 0.17 | 8026 | 100300 | TF 158 / TRF98 | MY 90S4 | 133 |
| | | | | TFF 158 / TRF98 | MY 90S4 | 133 |
| | 0.19 | 7075 | 100300 | TFA 158 / TRF98 | MY 80K4 | 133 |
| | 0.22 | 6295 | 100300 | TFAF 158 / TRF98 | MY 80K4 | 133 |
| | | | | TF 158 / TRF98 | MY 80K4 | 133 |
| | | | | TFF 158 / TRF98 | MY 80K4 | 133 |
| | 0.26 | 5404 | 100300 | TFA 158 / TRF98 | MY 80N4 | 133 |
| | | | | TFAF 158 / TRF98 | MY 80N4 | 133 |
| | | | | TF 158 / TRF98 | MY 80N4 | 133 |
| | | | | TFF 158 / TRF98 | MY 80N4 | 133 |
| | 0.29 | 4831 | 100300 | TFA 158 / TRF98 | MY 90S4 | 133 |
| | 0.34 | 4130 | 100300 | TFAF 158 / TRF98 | MY 90S4 | 133 |
| | | | | TF 158 / TRF98 | MY 90S4 | 133 |
| | | | | TFF 158 / TRF98 | MY 90S4 | 133 |
| | 0.39 | 3607 | 100300 | TFA 158 / TRF98 | MY 100M4 | 133 |
| | 0.44 | 3210 | 100300 | TFAF 158 / TRF98 | MY 100M4 | 133 |
| | | | | TF 158 / TRF98 | MY 100M4 | 133 |
| | | | | TFF 158 / TRF98 | MY 100M4 | 133 |
| 0.50 | 2780 | 100300 | TFA 158 / TRF98 | MY 90S4 | 133 | |
| | | | TFAF 158 / TRF98 | MY 90S4 | 133 | |
| | | | TF 158 / TRF98 | MY 90S4 | 133 | |
| | | | TFF 158 / TRF98 | MY 90S4 | 133 | |
| 0.98 | 1441 | 100300 | TFA 158 / TRF98 | MY 100M4 | 133 | |
| | | | TFAF 158 / TRF98 | MY 100M4 | 133 | |
| | | | TF 158 / TRF98 | MY 100M4 | 133 | |
| | | | TFF 158 / TRF98 | MY 100M4 | 133 | |

| $M_{2 \max}$ [Nm] | n_2 [r/min] | i | F_{r_2} [N] |  |  | Page |
|----------------------|------------------|--------|------------------|--|---|------|
| 18000 | 0.58 | 2427 | 100300 | TFA 158 / TRF98 | MY 90L4 | 133 |
| | 0.65 | 2185 | 100300 | TFAF 158 / TRF98 | MY 90L4 | 133 |
| | | | | TF 158 / TRF98 | MY 90L4 | 133 |
| | | | | TFF 158 / TRF98 | MY 90L4 | 133 |
| | 0.73 | 1944 | 100300 | TFA 158 / TRF98 | MY 100M4 | 133 |
| | 0.84 | 1674 | 100300 | TFAF 158 / TRF98 | MY 100M4 | 133 |
| | | | | TF 158 / TRF98 | MY 100M4 | 133 |
| | | | | TFF 158 / TRF98 | MY 100M4 | 133 |
| | 1.1 | 1308 | 100300 | TFA 158 / TRF98 | MY 100L4 | 133 |
| | 1.2 | 1169 | 100300 | TFAF 158 / TRF98 | MY 100L4 | 133 |
| | | | | TF 158 / TRF98 | MY 100L4 | 133 |
| | | | | TFF 158 / TRF98 | MY 100L4 | 133 |
| | 1.5 | 953 | 100300 | TFA 158 / TRF98 | MY 112M4 | 133 |
| | 1.7 | 845 | 100300 | TFAF 158 / TRF98 | MY 112M4 | 133 |
| | 1.9 | 764 | 100300 | TF 158 / TRF98 | MY 112M4 | 133 |
| | | | | TFF 158 / TRF98 | MY 112M4 | 133 |
| | 2.1 | 680 | 100300 | TFA 158 / TRF98 | MY 132S4 | 133 |
| | 2.5 | 576 | 100300 | TFAF 158 / TRF98 | MY 132S4 | 133 |
| | | | | TF 158 / TRF98 | MY 132S4 | 133 |
| | | | | TFF 158 / TRF98 | MY 132S4 | 133 |
| | 2.8 | 503 | 100300 | TFA 158 / TRF98 | MY 132M4 | 133 |
| | 3.2 | 446 | 100300 | TFAF 158 / TRF98 | MY 132M4 | 133 |
| | | | | TF 158 / TRF98 | MY 132M4 | 133 |
| | | | | TFF 158 / TRF98 | MY 132M4 | 133 |
| | 4.1 | 353 | 100300 | TFA 158 / TRF98 | MY 132ML4 | 133 |
| | | | | TFAF 158 / TRF98 | MY 132ML4 | 133 |
| | | | | TF 158 / TRF98 | MY 132ML4 | 133 |
| | | | | TFF 158 / TRF98 | MY 132ML4 | 133 |
| | 4.8 | 302 | 100300 | TFA 158 / TRF98 | MY 160M4 | 133 |
| | 5.3 | 273 | 100300 | TFAF 158 / TRF98 | MY 160M4 | 133 |
| | | | TF 158 / TRF98 | MY 160M4 | 133 | |
| | | | TFF 158 / TRF98 | MY 160M4 | 133 | |
| 6.3 | 232 | 100300 | TFA 158 / TRF98 | MY 160L4 | 133 | |
| 7.2 | 202 | 100300 | TFAF 158 / TRF98 | MY 160L4 | 133 | |
| | | | TF 158 / TRF98 | MY 160L4 | 133 | |
| | | | TFF 158 / TRF98 | MY 160L4 | 133 | |
| 7.5 | 197 | 100300 | TFA 158 / TRF98 | MY 180M4 | 133 | |
| | | | TFAF 158 / TRF98 | MY 180M4 | 133 | |
| | | | TF 158 / TRF98 | MY 180M4 | 133 | |
| | | | TFF 158 / TRF98 | MY 180M4 | 133 | |

7. OUTLINE DIMENSION SHEET

7.1 Outline Dimension

TF28..

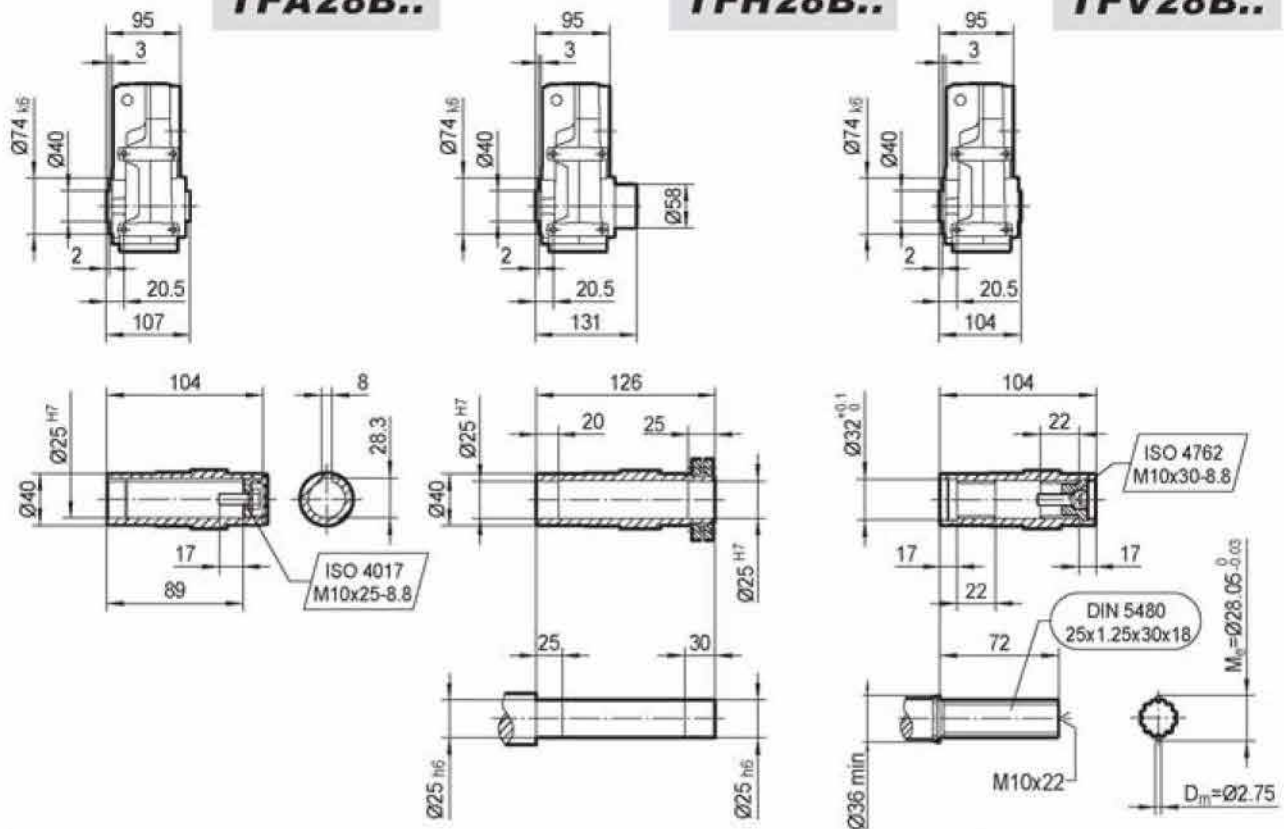


TFA28B..

max.MY80..

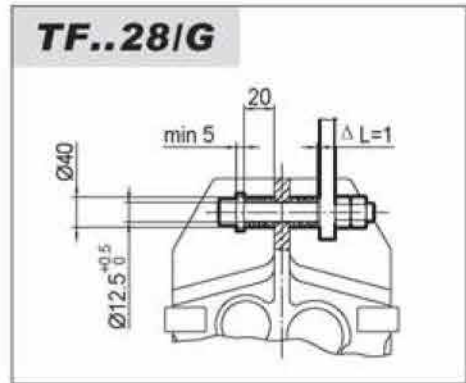
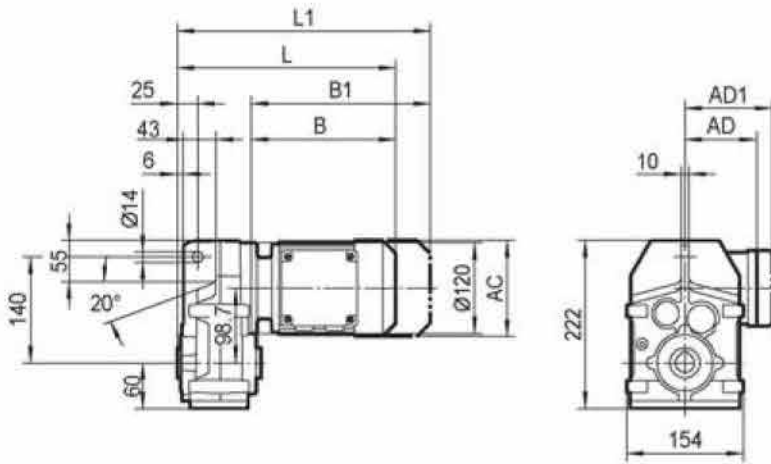
TFH28B..

TFV28B..

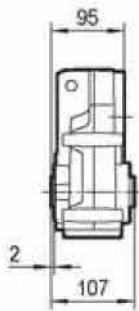


| | MY63.. | MY71D | MY80.. | MY90.. | | | | | |
|-----|--------|-------|--------|--------|--|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | | | | | |
| AD | 105 | 122 | 122 | 154 | | | | | |
| AD1 | 105 | 127 | 127 | 161 | | | | | |
| B | 191 | 206 | 256 | 276 | | | | | |
| B1 | 246 | 269 | 319 | 361 | | | | | |
| L | 337 | 352 | 402 | 422 | | | | | |
| L1 | 392 | 415 | 465 | 507 | | | | | |

TFA28..

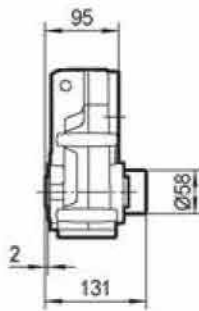


TFA28..

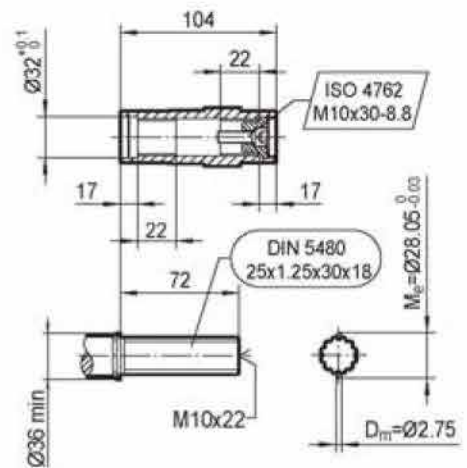
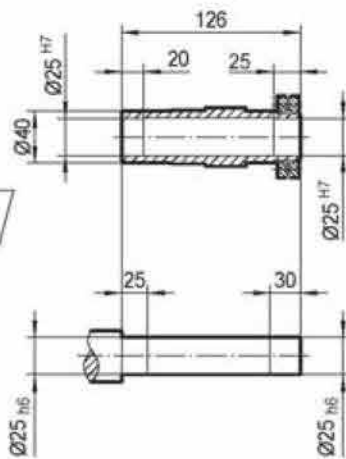
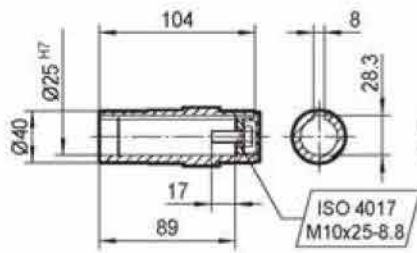
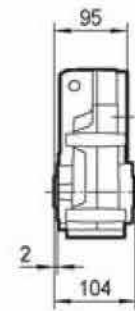


TFH28..

max.MY80..

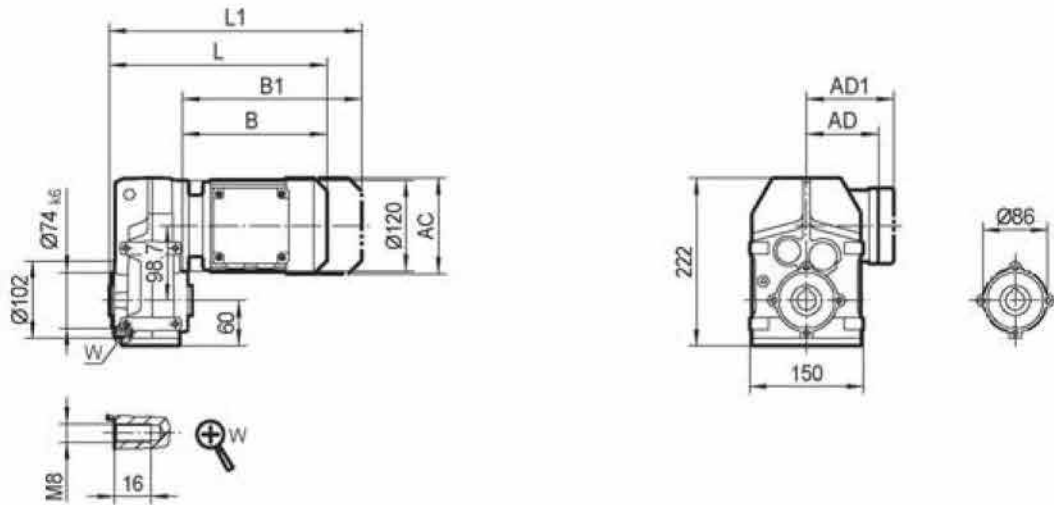


TFV28..

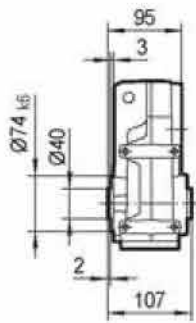


| | MY63.. | MY71D | MY80.. | MY90.. | | | | | |
|-----|--------|-------|--------|--------|--|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | | | | | |
| AD | 105 | 122 | 122 | 154 | | | | | |
| AD1 | 105 | 127 | 127 | 161 | | | | | |
| B | 191 | 206 | 256 | 276 | | | | | |
| B1 | 246 | 269 | 319 | 361 | | | | | |
| L | 286 | 301 | 351 | 371 | | | | | |
| L1 | 341 | 364 | 414 | 456 | | | | | |

TFAZ28..

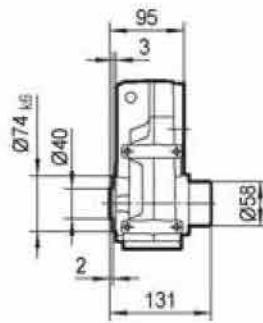


TFAZ28..

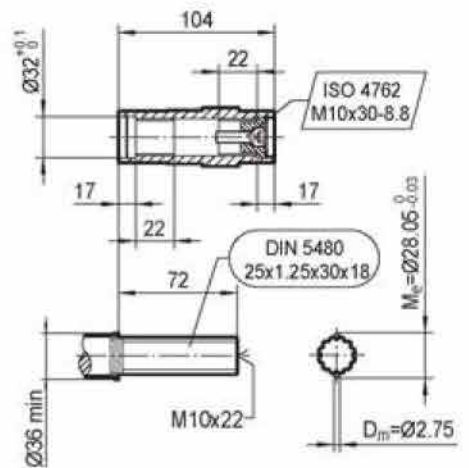
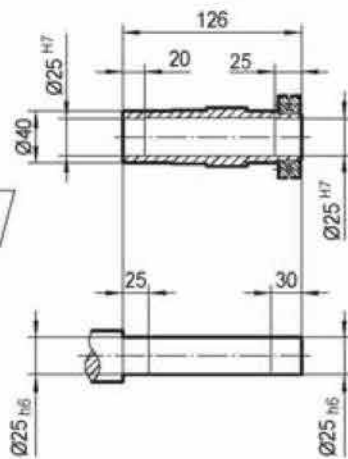
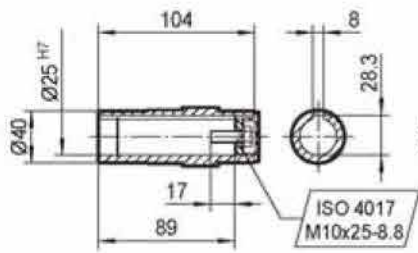
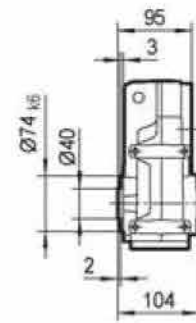


TFHZ28..

max.MY80..

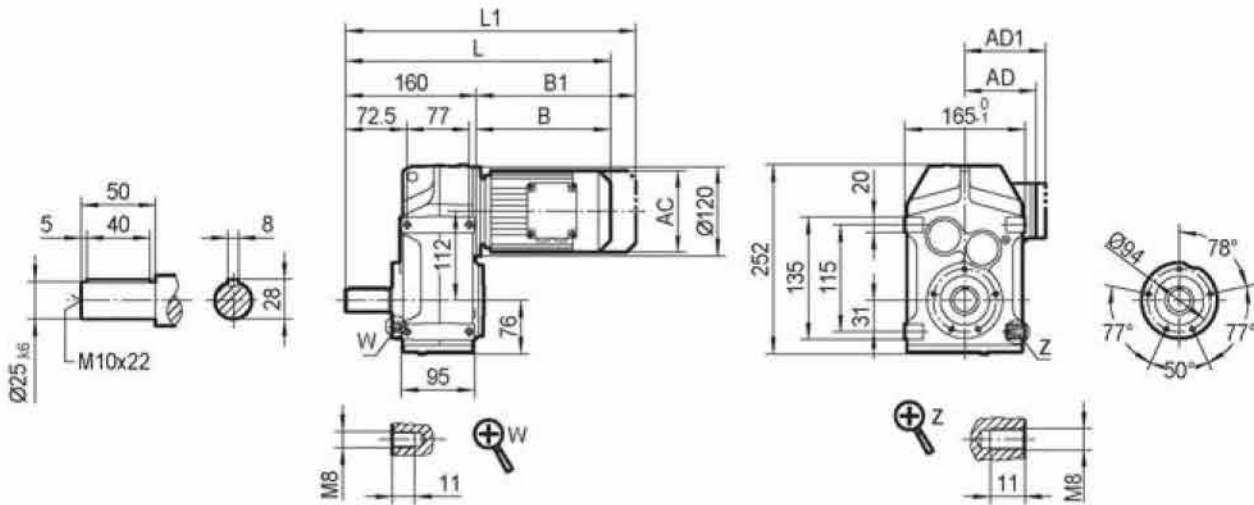


TFVZ28..



| | MY63.. | MY71D | MY80.. | MY90.. | | | | | |
|-----|--------|-------|--------|--------|--|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | | | | | |
| AD | 105 | 122 | 122 | 154 | | | | | |
| AD1 | 105 | 127 | 127 | 161 | | | | | |
| B | 191 | 206 | 256 | 276 | | | | | |
| B1 | 246 | 269 | 319 | 361 | | | | | |
| L | 286 | 301 | 351 | 371 | | | | | |
| L1 | 341 | 364 | 414 | 456 | | | | | |

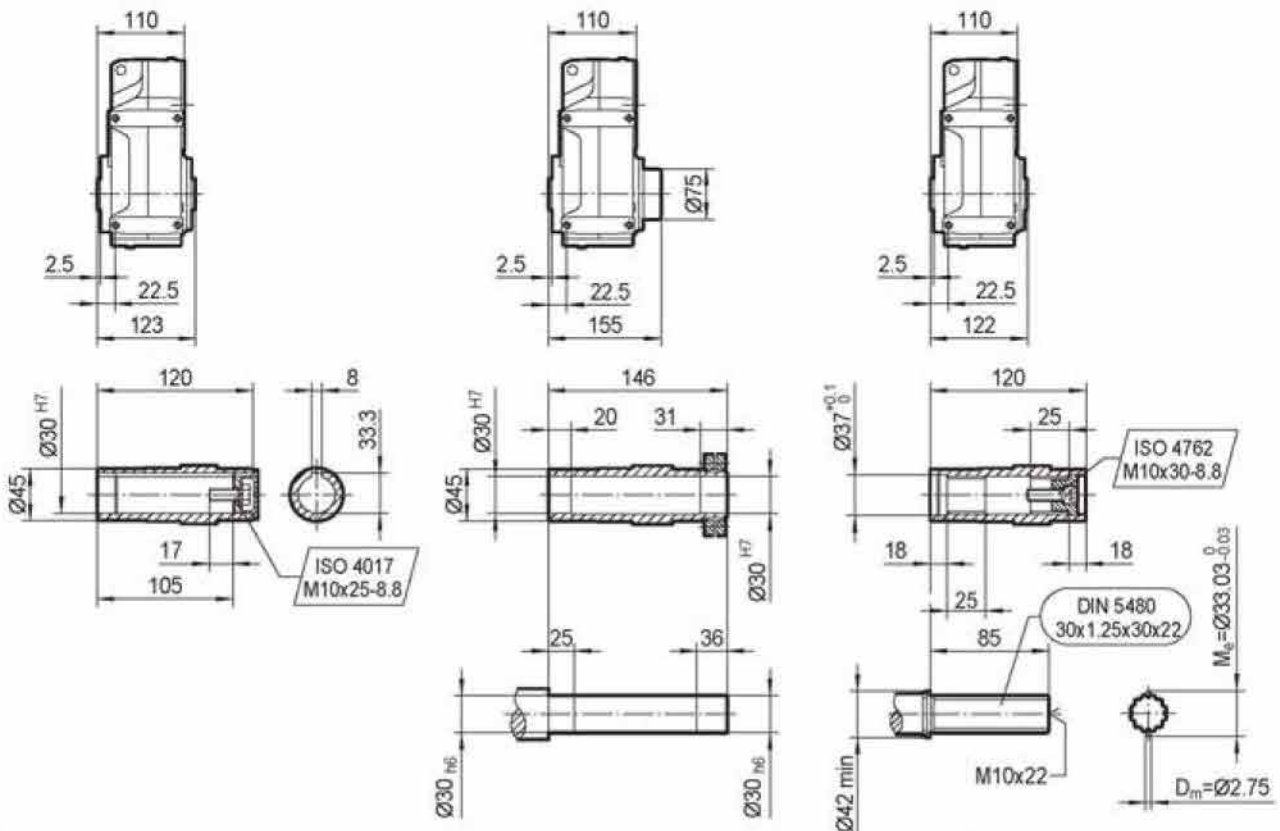
TF38..



TFA38B..

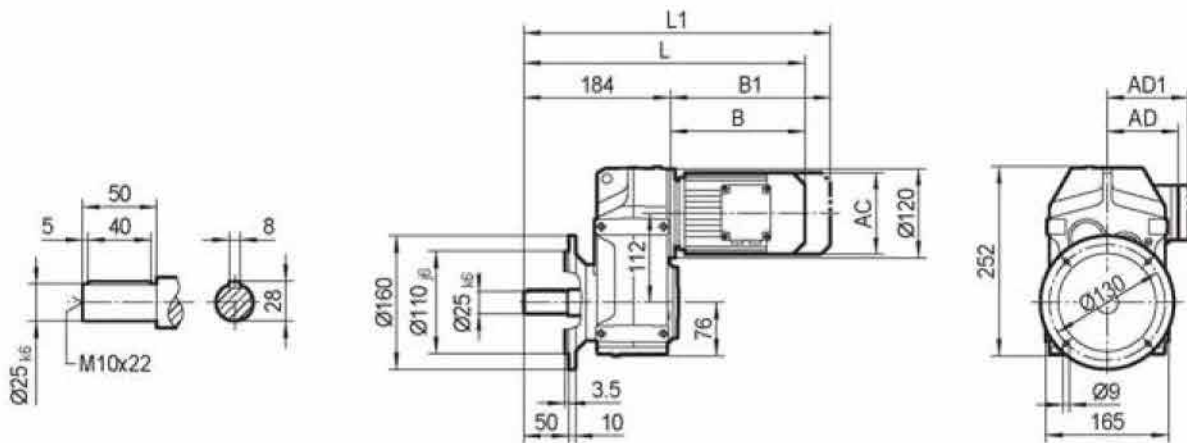
TFH38B..

TFV38B..

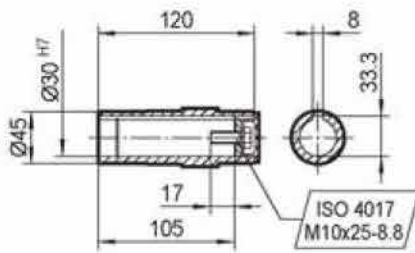
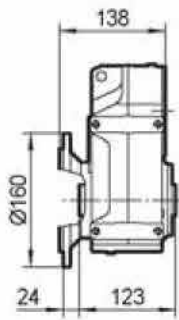


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|-----|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | | | | |
| B | 191 | 206 | 256 | 276 | 328 | 358 | | | | |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 | | | | |
| L | 351 | 366 | 416 | 436 | 488 | 518 | | | | |
| L1 | 406 | 429 | 479 | 521 | 573 | 603 | | | | |

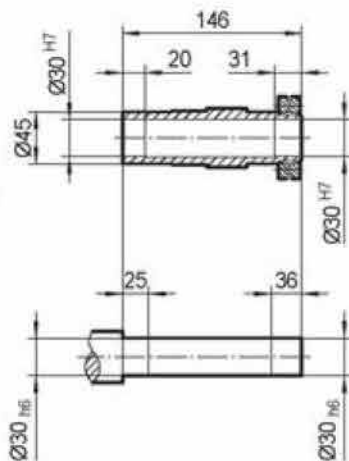
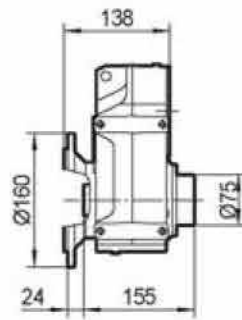
TFF38..



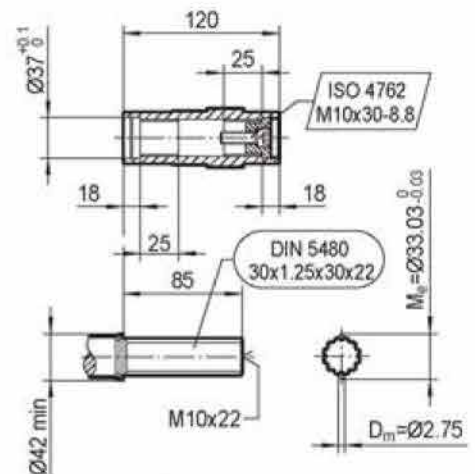
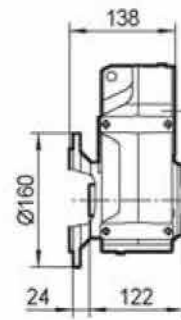
TFAF38..



TFHF38..

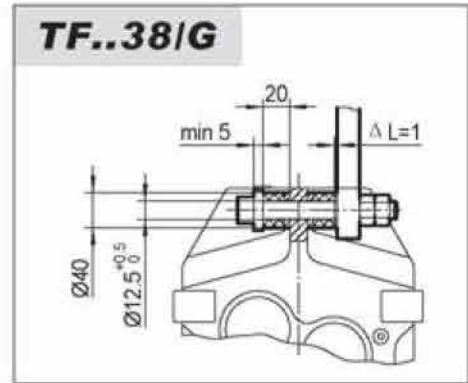
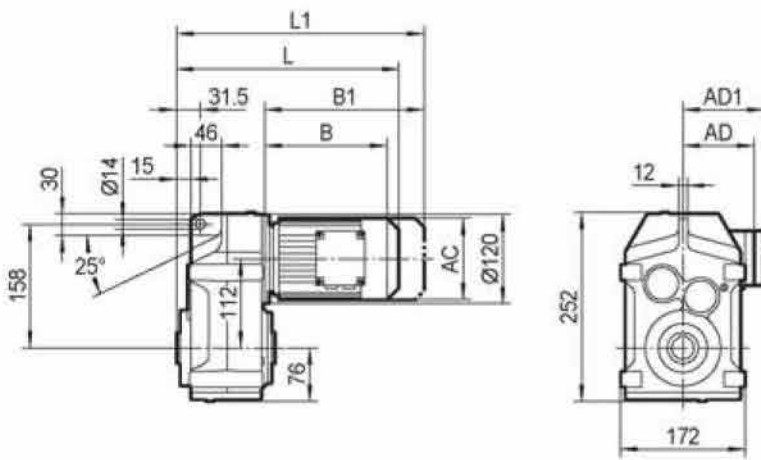


TFVF38..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | | | | |
| B | 191 | 206 | 256 | 276 | 328 | 358 | | | | |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 | | | | |
| L | 375 | 390 | 440 | 460 | 512 | 542 | | | | |
| L1 | 430 | 453 | 503 | 545 | 597 | 627 | | | | |

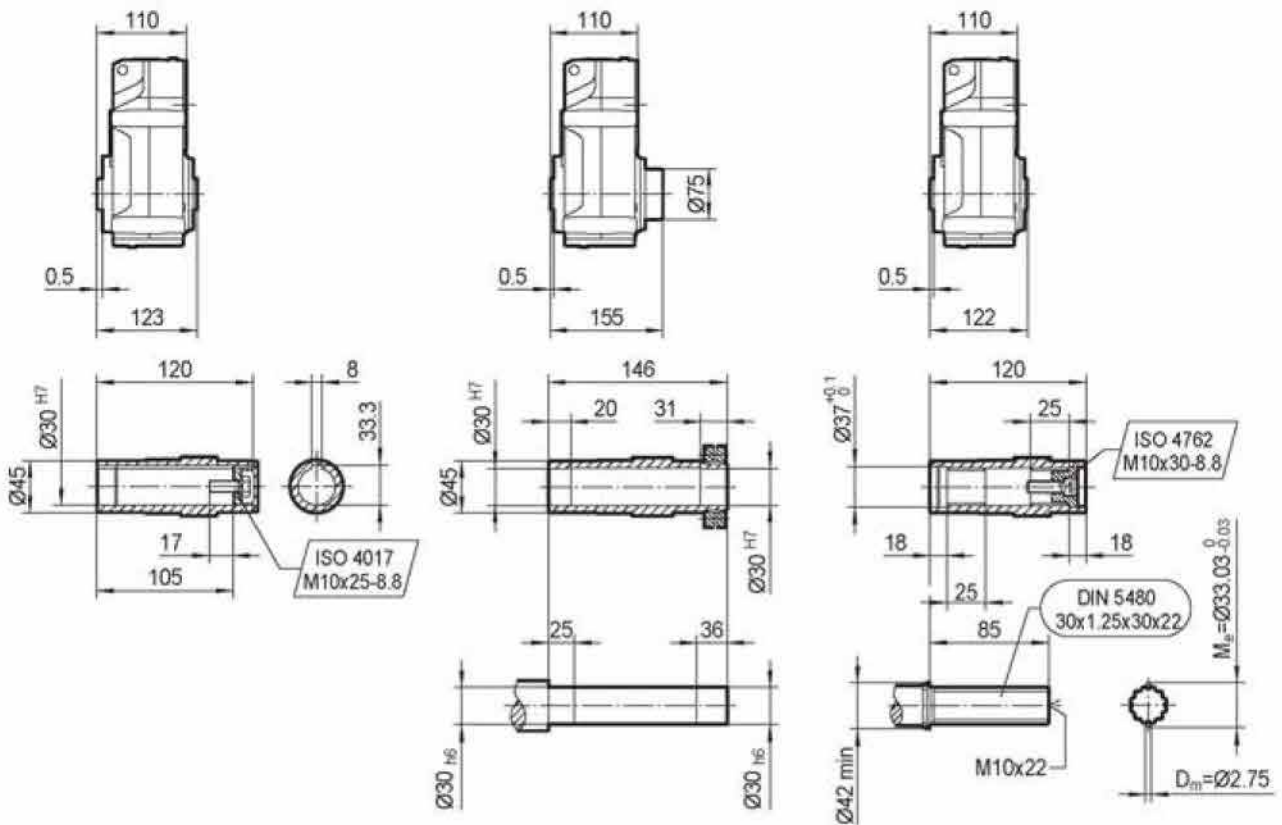
TFA38..



TFA38..

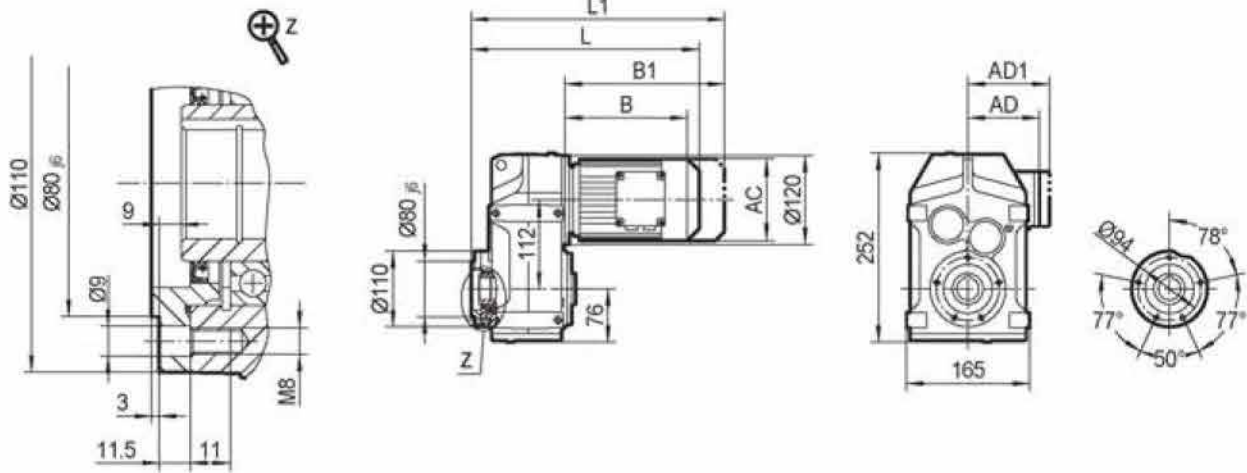
TFH38..

TFV38..

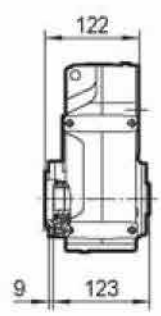


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|-----|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | | | | |
| B | 191 | 206 | 256 | 276 | 328 | 358 | | | | |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 | | | | |
| L | 301 | 316 | 366 | 386 | 438 | 468 | | | | |
| L1 | 356 | 379 | 429 | 471 | 523 | 553 | | | | |

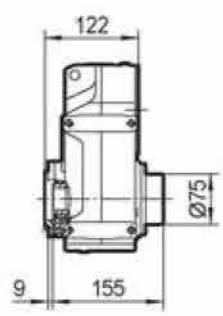
TFAZ38..



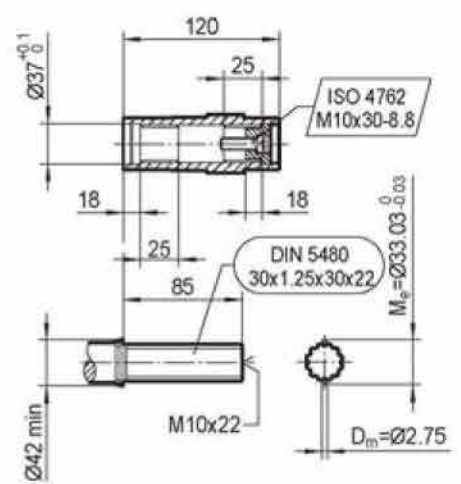
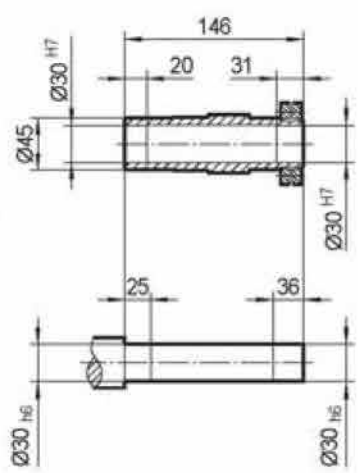
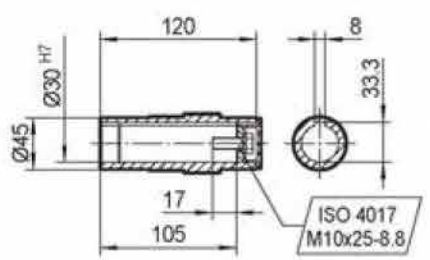
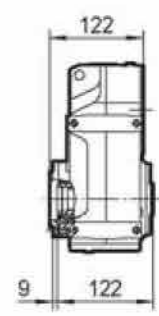
TFAZ38..



TFHZ38..

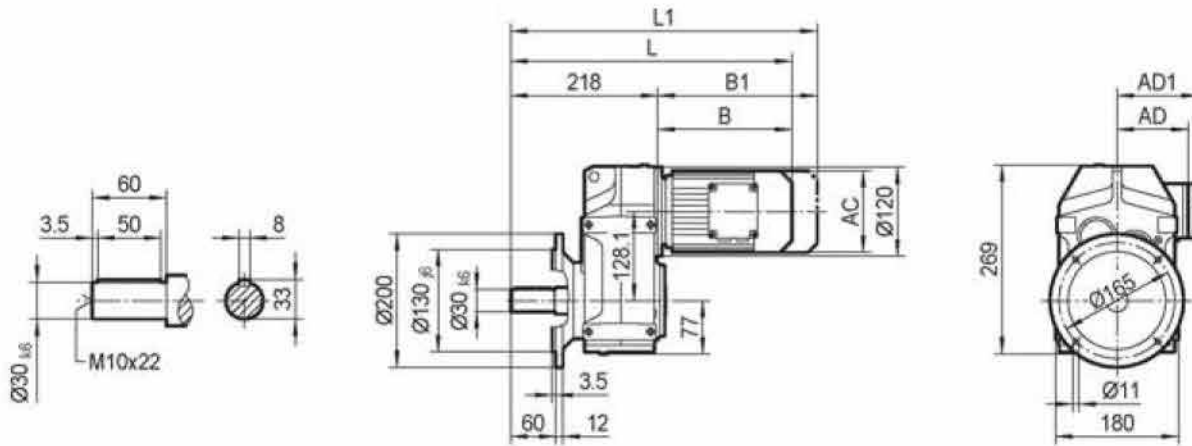


TFVZ38..

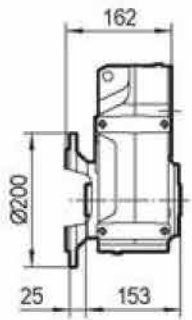


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | | | |
| B | 191 | 206 | 256 | 276 | 328 | 358 | | | |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 | | | |
| L | 313 | 328 | 378 | 398 | 450 | 480 | | | |
| L1 | 368 | 391 | 441 | 483 | 535 | 565 | | | |

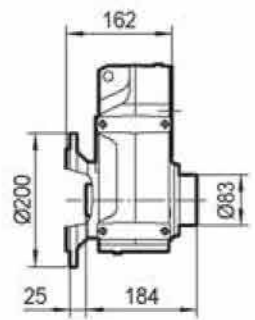
TFF48..



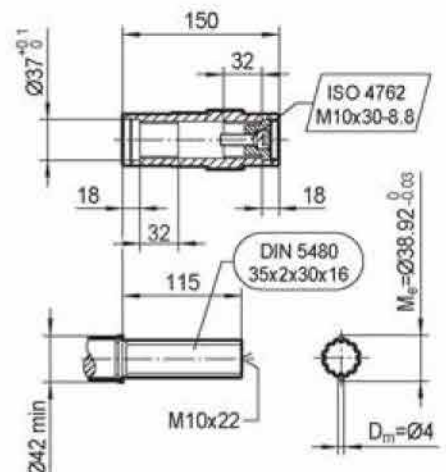
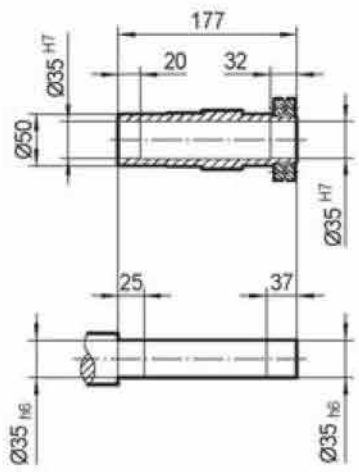
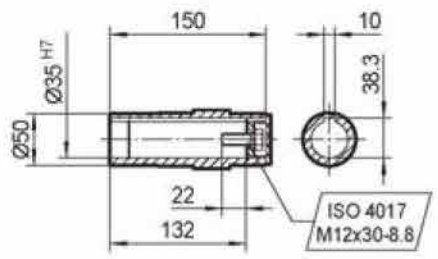
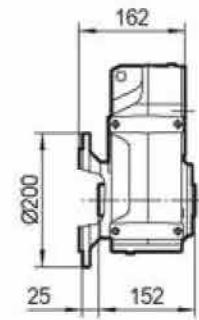
TFAF48..



TFHF48..

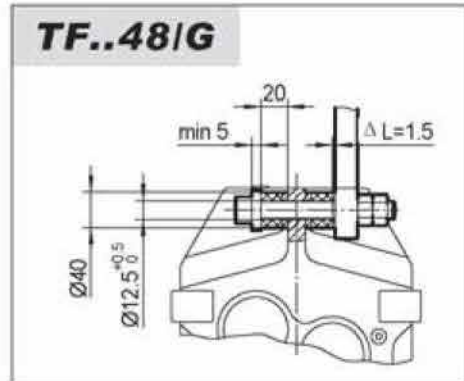
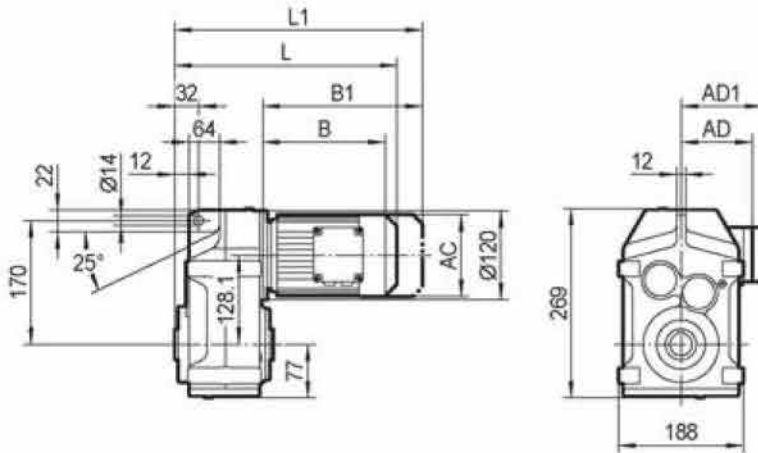


TFVF48..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|-----|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | | | | |
| B | 191 | 206 | 256 | 276 | 328 | 358 | | | | |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 | | | | |
| L | 409 | 424 | 474 | 494 | 546 | 576 | | | | |
| L1 | 464 | 487 | 537 | 579 | 631 | 661 | | | | |

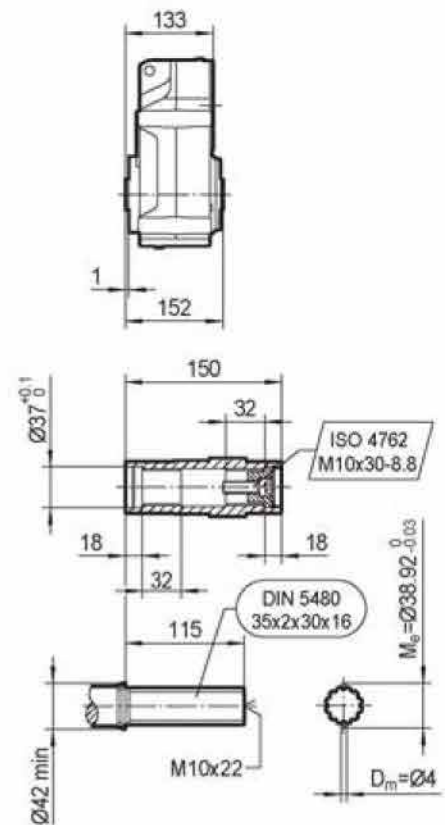
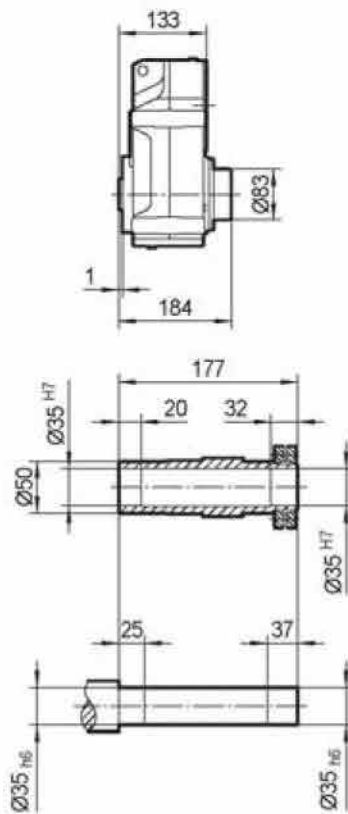
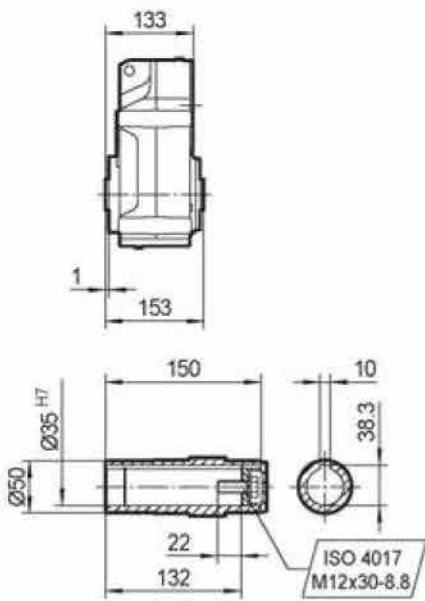
TFA48..



TFA48..

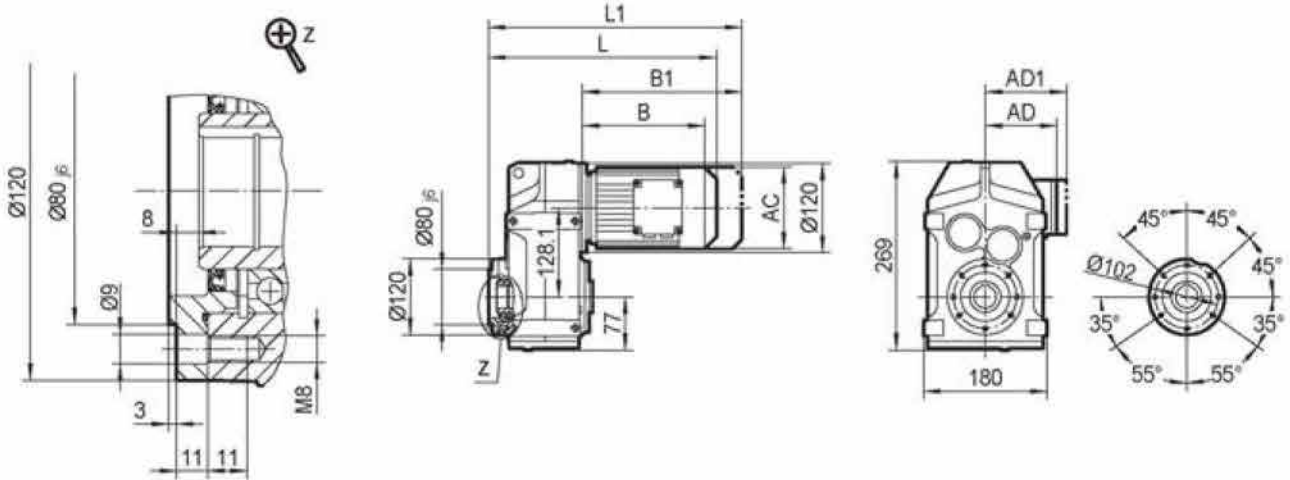
TFH48..

TFV48..

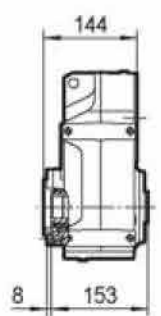


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|-----|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | | | | |
| B | 191 | 206 | 256 | 276 | 328 | 358 | | | | |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 | | | | |
| L | 324 | 339 | 389 | 409 | 461 | 491 | | | | |
| L1 | 379 | 402 | 452 | 494 | 546 | 576 | | | | |

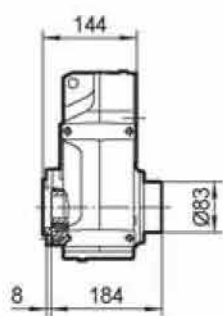
TFAZ48..



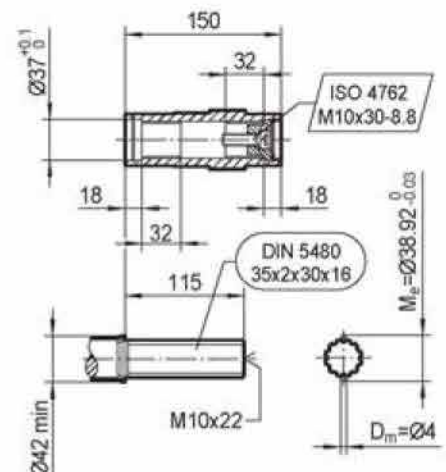
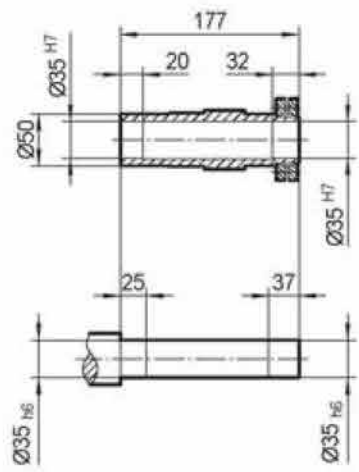
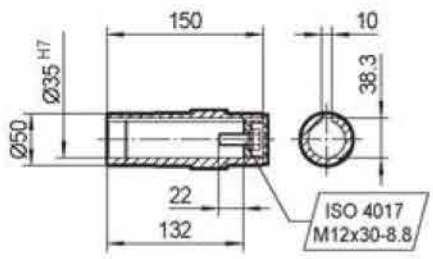
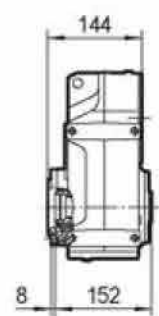
TFAZ48..



TFHZ48..

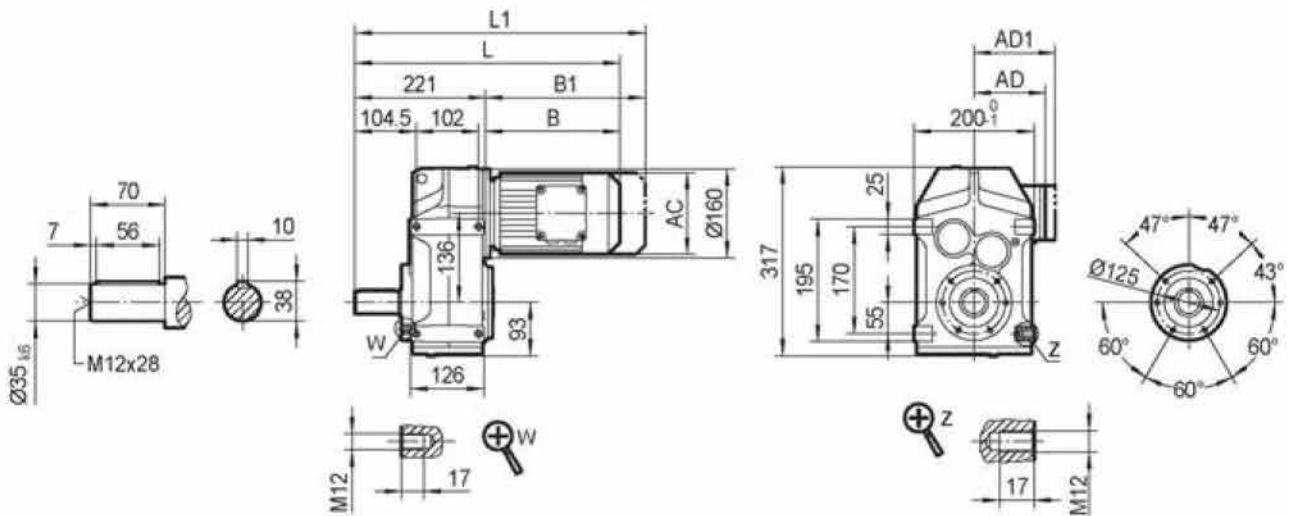


TFVZ48..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L |
|------------|--------|-------|--------|--------|--------|--------|
| AC | 132 | 145 | 145 | 197 | 197 | 197 |
| AD | 105 | 122 | 122 | 154 | 166 | 166 |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 |
| B | 191 | 206 | 256 | 276 | 328 | 358 |
| B1 | 246 | 269 | 319 | 361 | 413 | 443 |
| L | 335 | 350 | 400 | 420 | 472 | 502 |
| L1 | 390 | 413 | 463 | 505 | 557 | 587 |

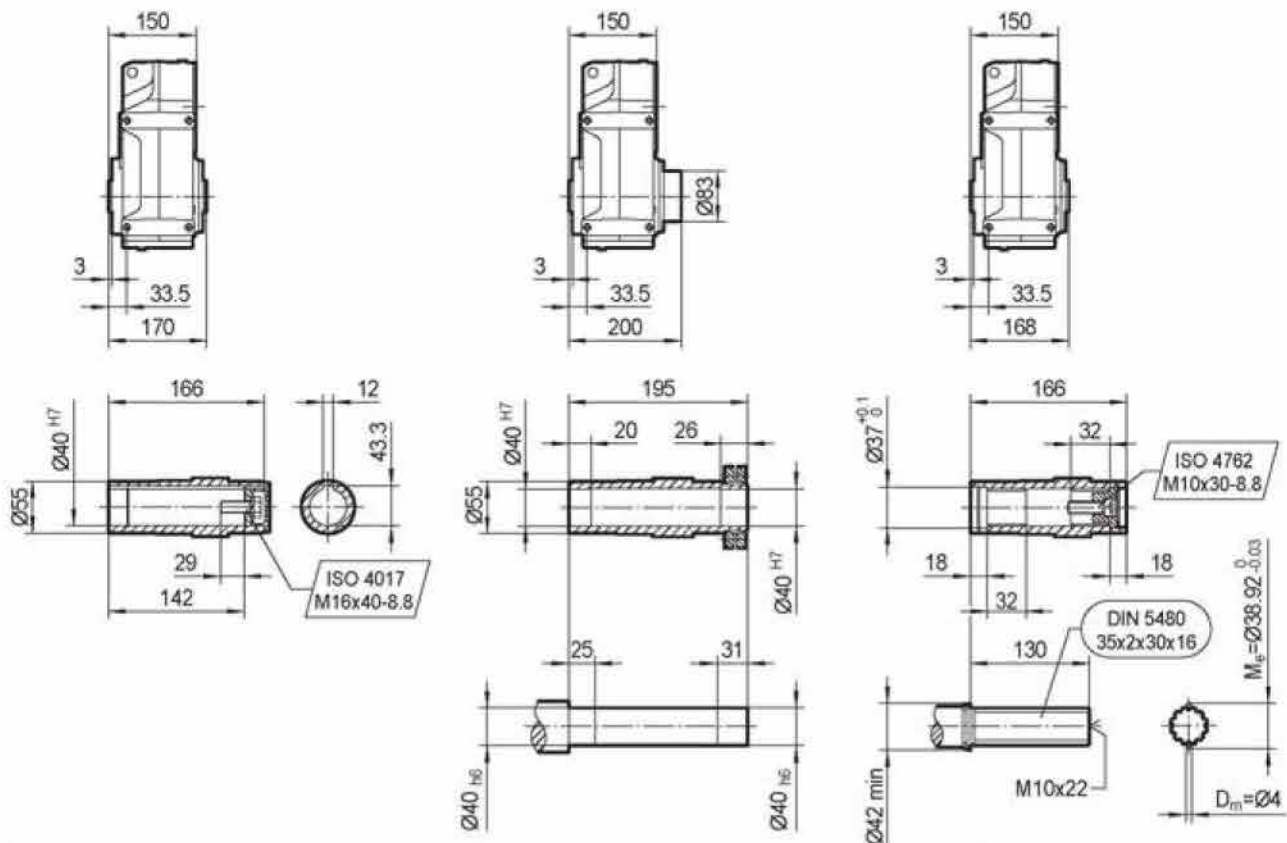
TF58..



TFA58B..

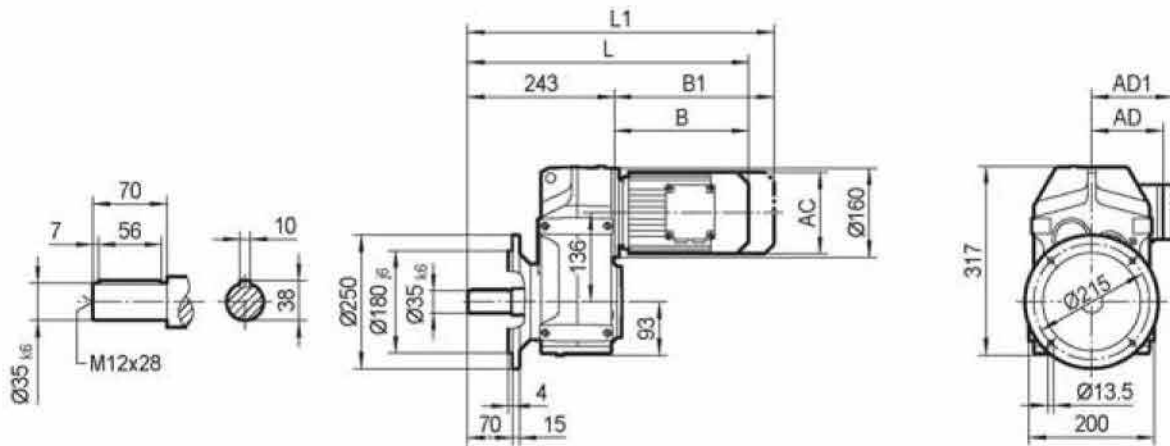
TFH58B..

TFV58B..

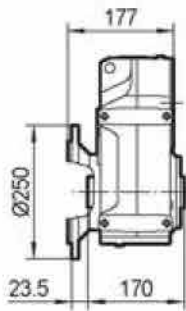


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | | |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | | |
| L | 406 | 420 | 470 | 490 | 540 | 570 | 575 | 623 | | | |
| L1 | 461 | 484 | 534 | 575 | 625 | 655 | 655 | 703 | | | |

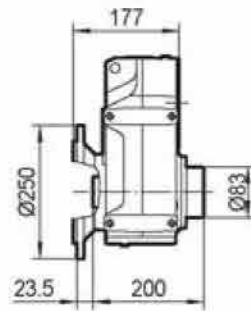
TFF58..



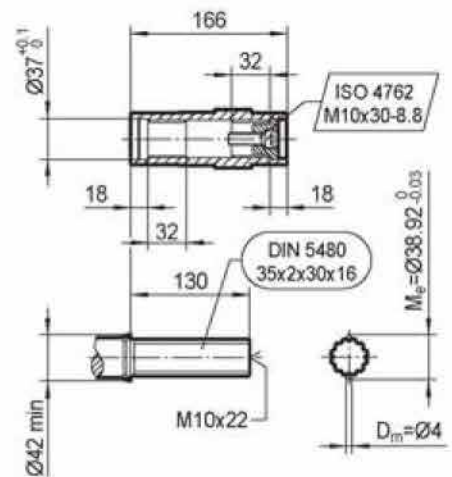
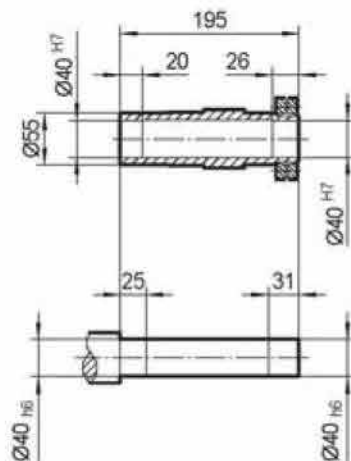
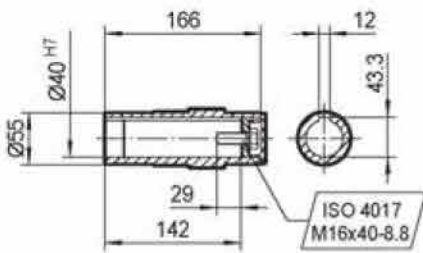
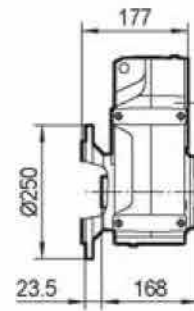
TFAF58..



TFHF58..

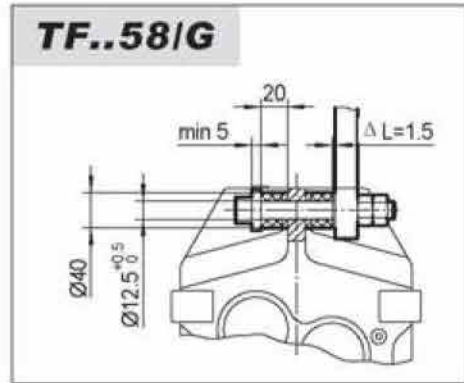
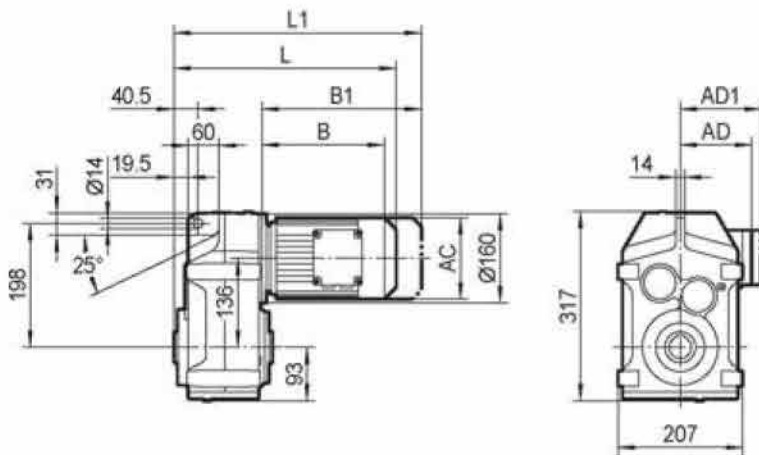


TFVF58..

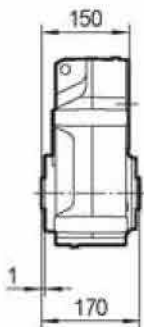


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 428 | 442 | 492 | 512 | 562 | 592 | 597 | 645 | | |
| L1 | 483 | 506 | 556 | 597 | 647 | 677 | 677 | 725 | | |

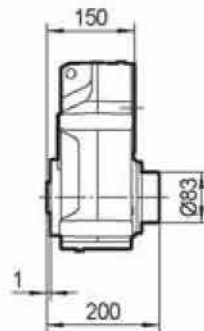
TFA58..



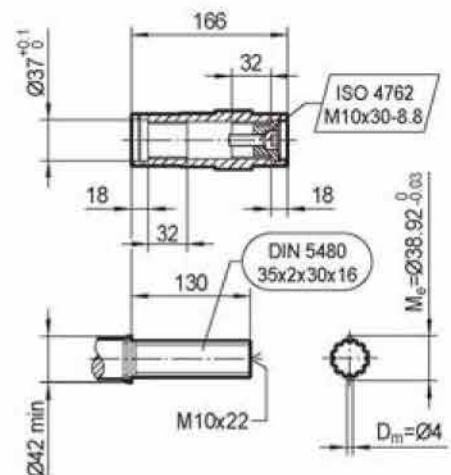
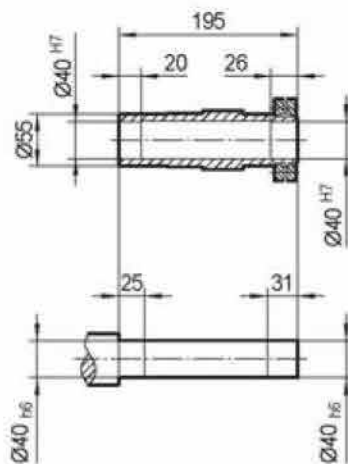
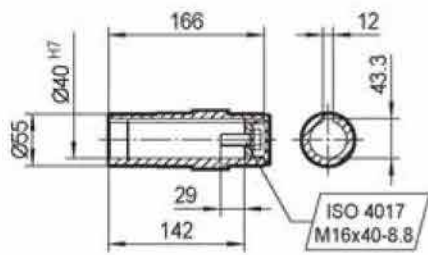
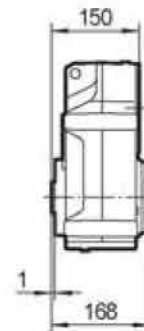
TFA58..



TFH58..

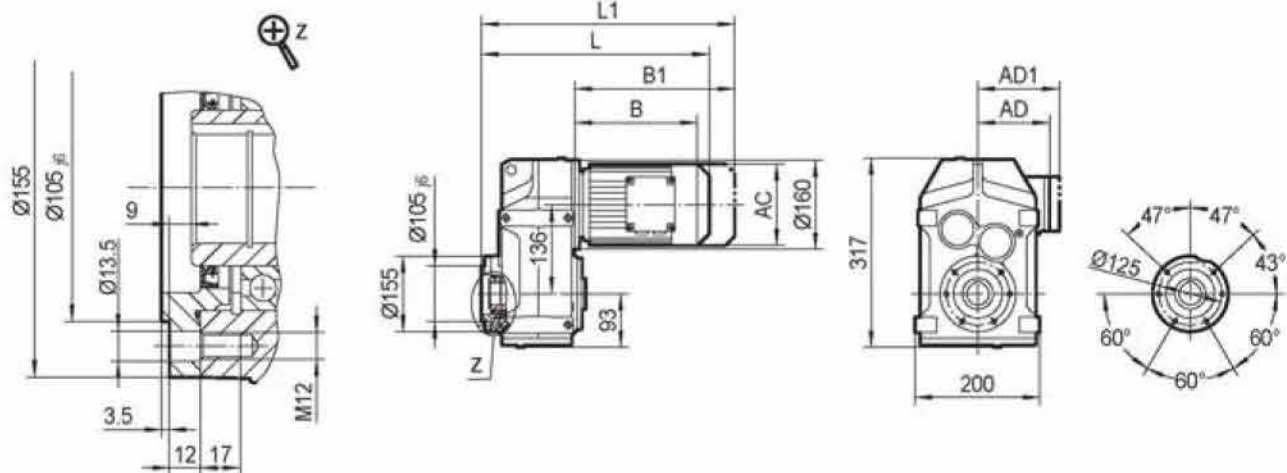


TFV58..

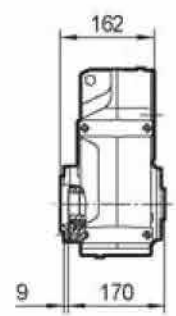


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 335 | 349 | 399 | 419 | 469 | 499 | 504 | 552 | | |
| L1 | 390 | 413 | 463 | 504 | 554 | 584 | 584 | 632 | | |

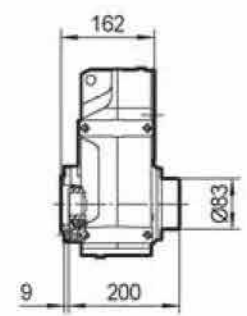
TFAZ58..



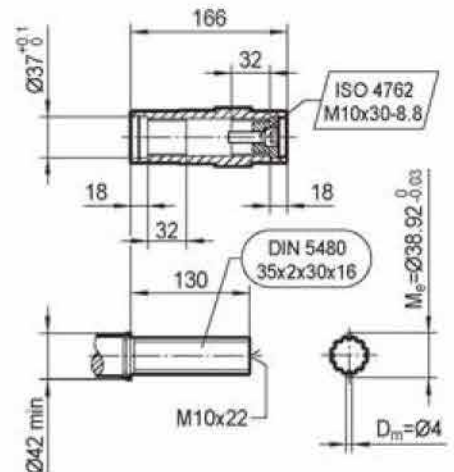
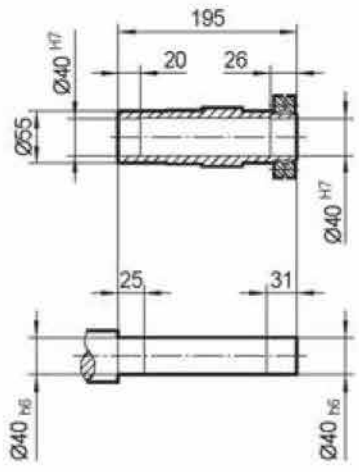
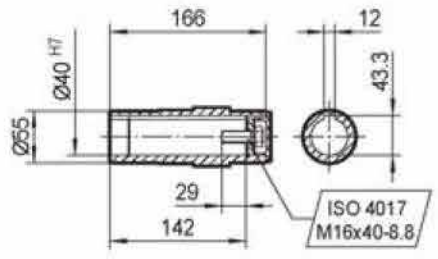
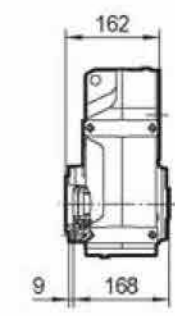
TFAZ58..



TFHZ58..

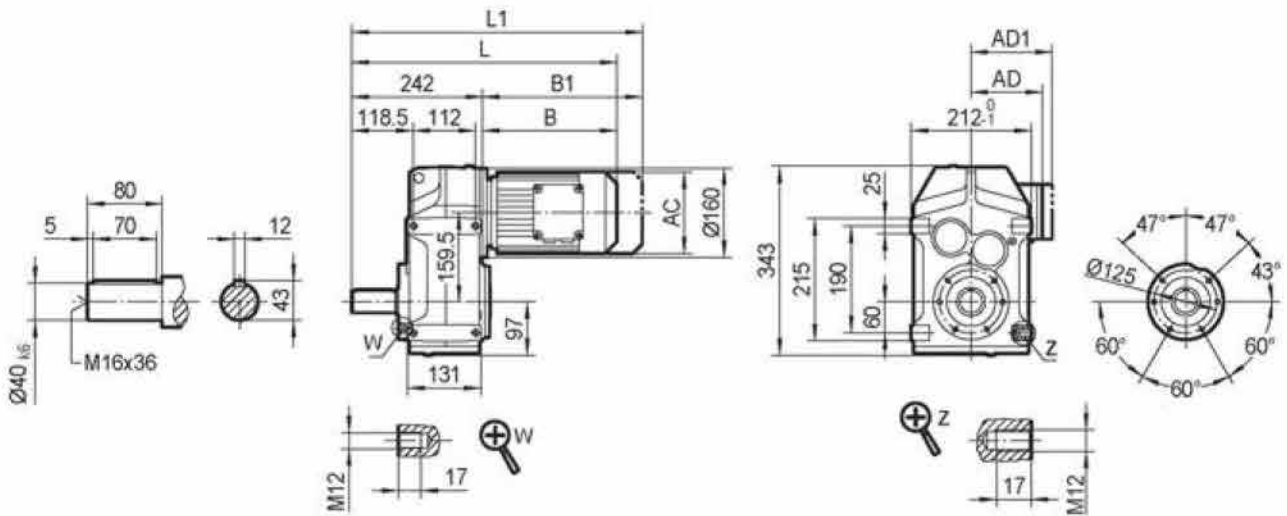


TFVZ58..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 347 | 361 | 411 | 431 | 481 | 511 | 516 | 564 | | |
| L1 | 402 | 425 | 475 | 516 | 566 | 596 | 596 | 644 | | |

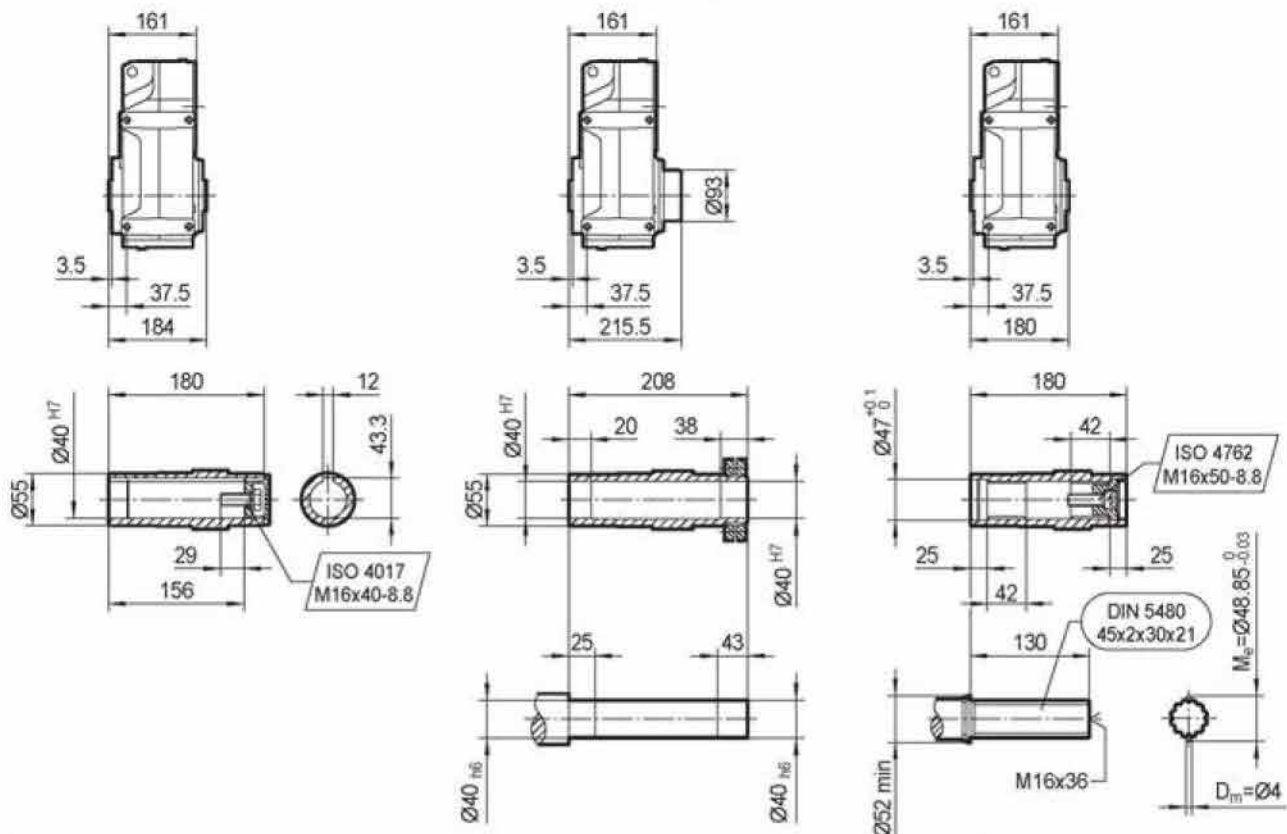
TF68..



TFA68B..

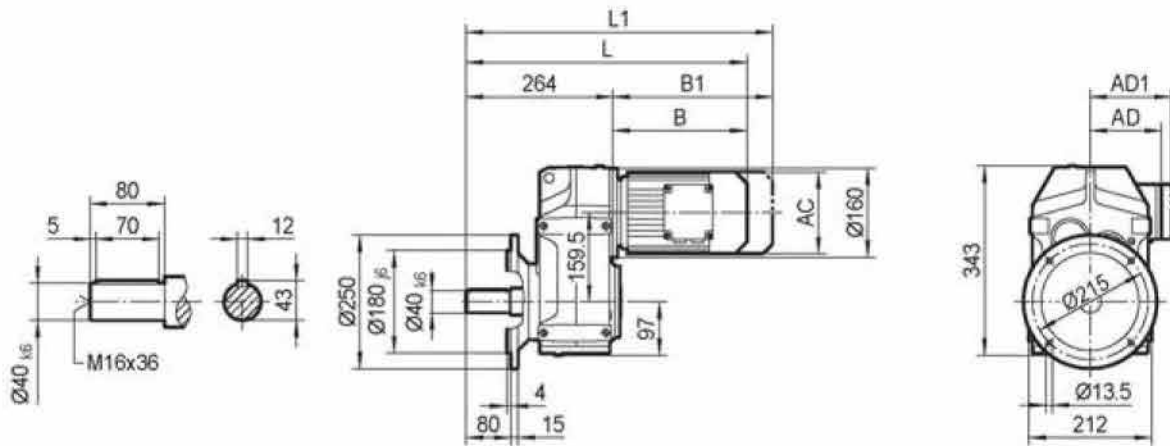
TFH68B..

TFV68B..

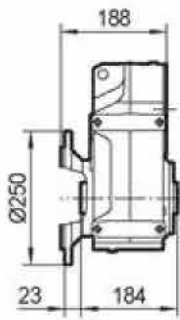


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 427 | 441 | 491 | 511 | 561 | 591 | 596 | 644 | | |
| L1 | 482 | 505 | 555 | 596 | 646 | 676 | 676 | 724 | | |

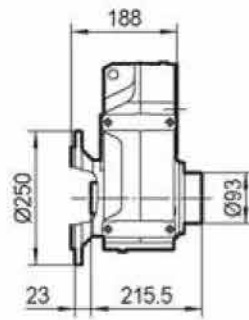
TFF68..



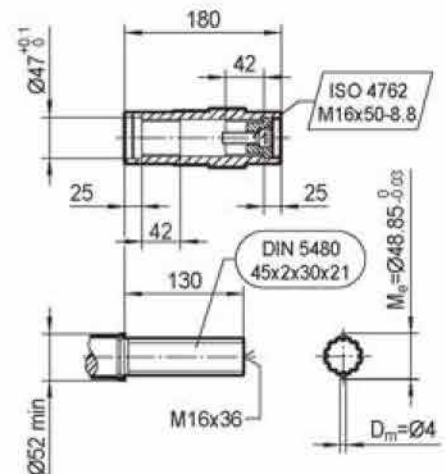
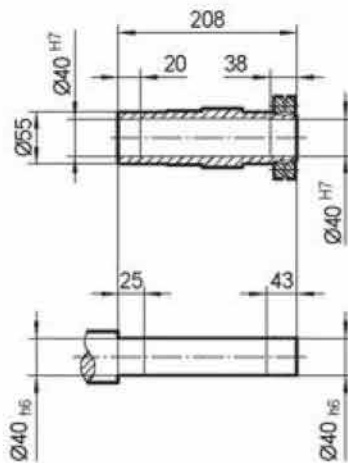
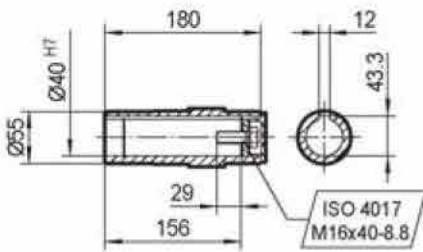
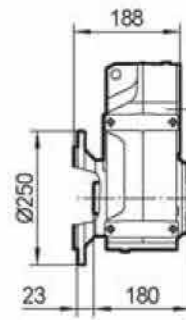
TFAF68..



TFHF68..

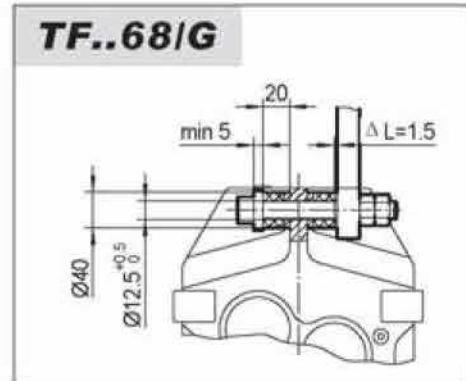
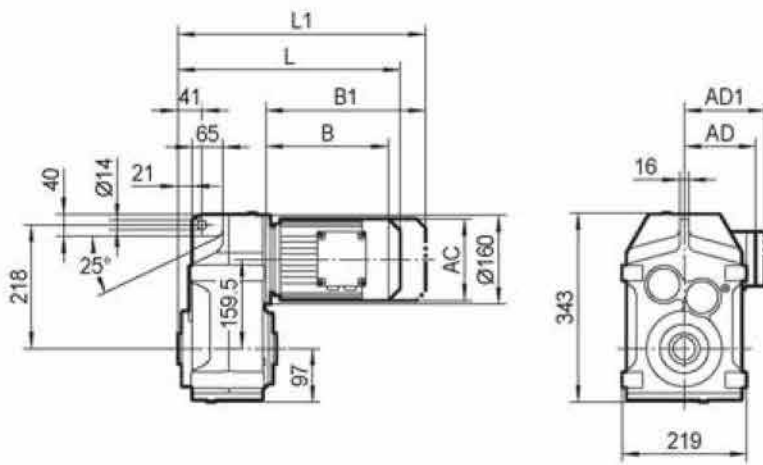


TFVF68..

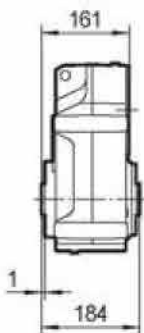


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 449 | 463 | 513 | 533 | 583 | 613 | 618 | 666 | | |
| L1 | 504 | 527 | 577 | 618 | 668 | 698 | 698 | 746 | | |

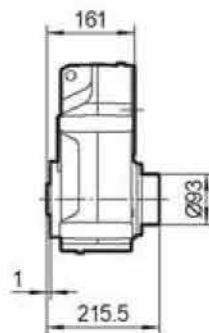
TFA68..



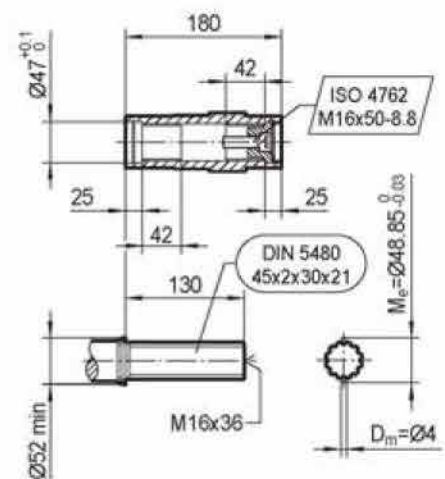
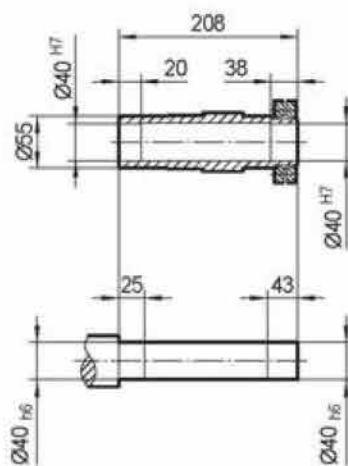
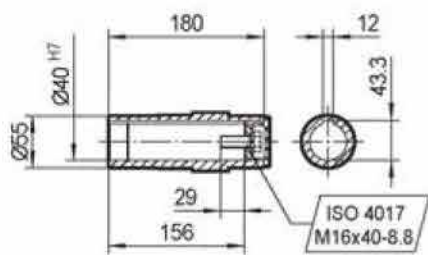
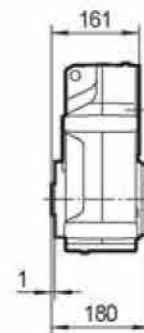
TFA68..



TFH68..

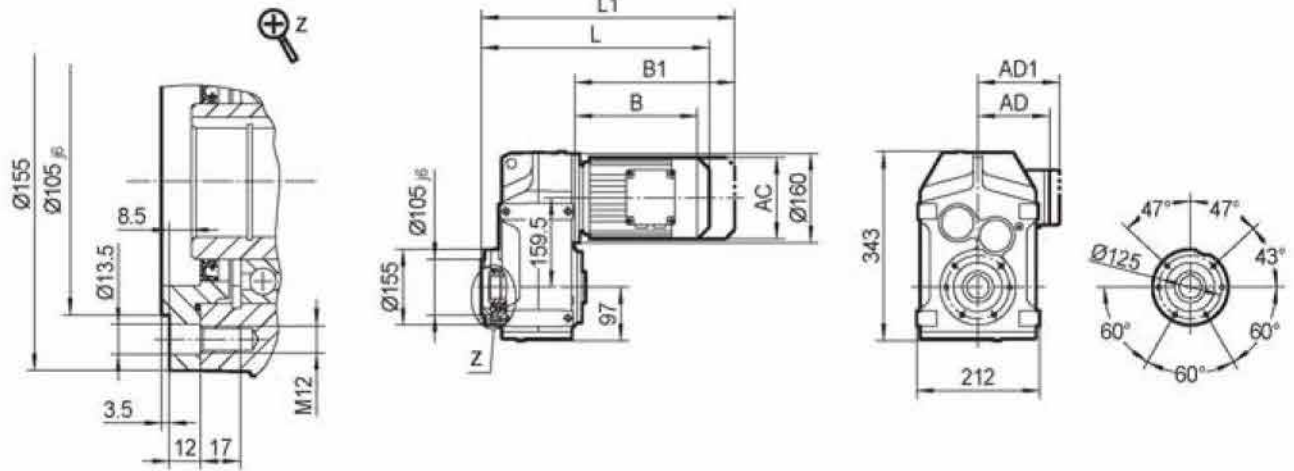


TFV68..

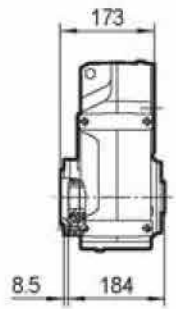


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 346 | 360 | 410 | 430 | 480 | 510 | 515 | 563 | | |
| L1 | 401 | 424 | 474 | 515 | 565 | 595 | 595 | 643 | | |

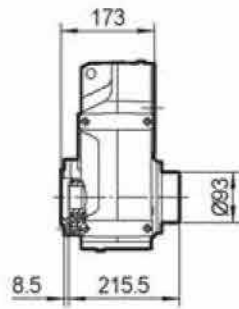
TFAZ68..



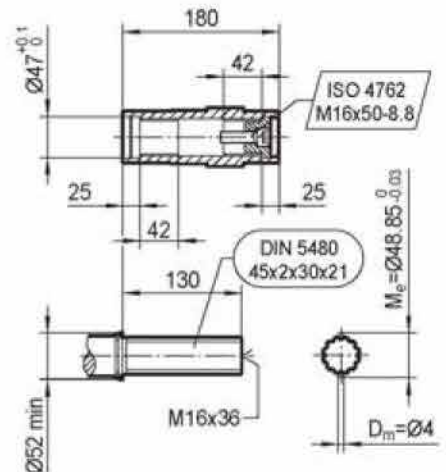
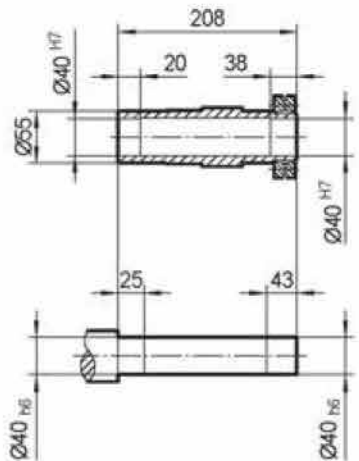
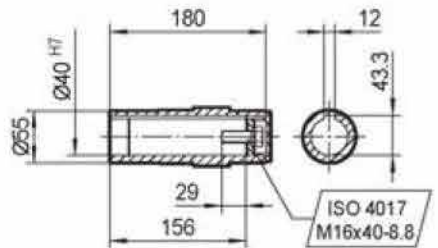
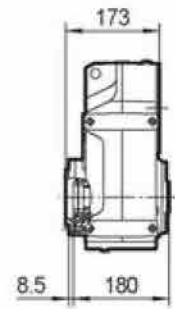
TFAZ68..



TFHZ68..

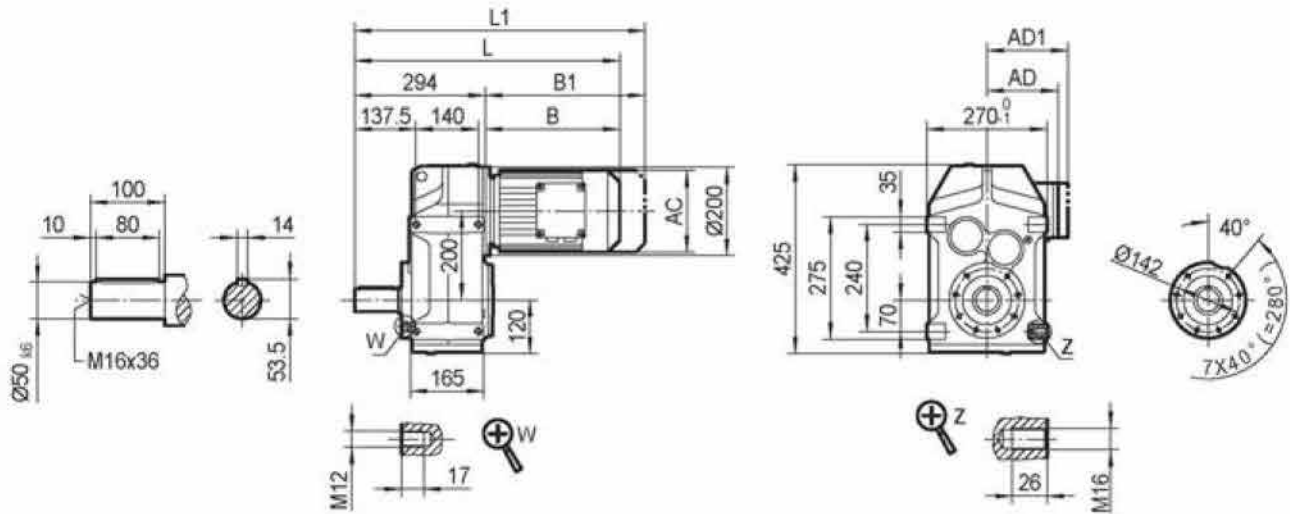


TFVZ68..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | | |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | | |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | | |
| B | 185 | 199 | 249 | 269 | 319 | 349 | 354 | 402 | | |
| B1 | 240 | 263 | 313 | 354 | 404 | 434 | 434 | 482 | | |
| L | 358 | 372 | 422 | 442 | 492 | 522 | 527 | 575 | | |
| L1 | 413 | 436 | 486 | 527 | 577 | 607 | 607 | 655 | | |

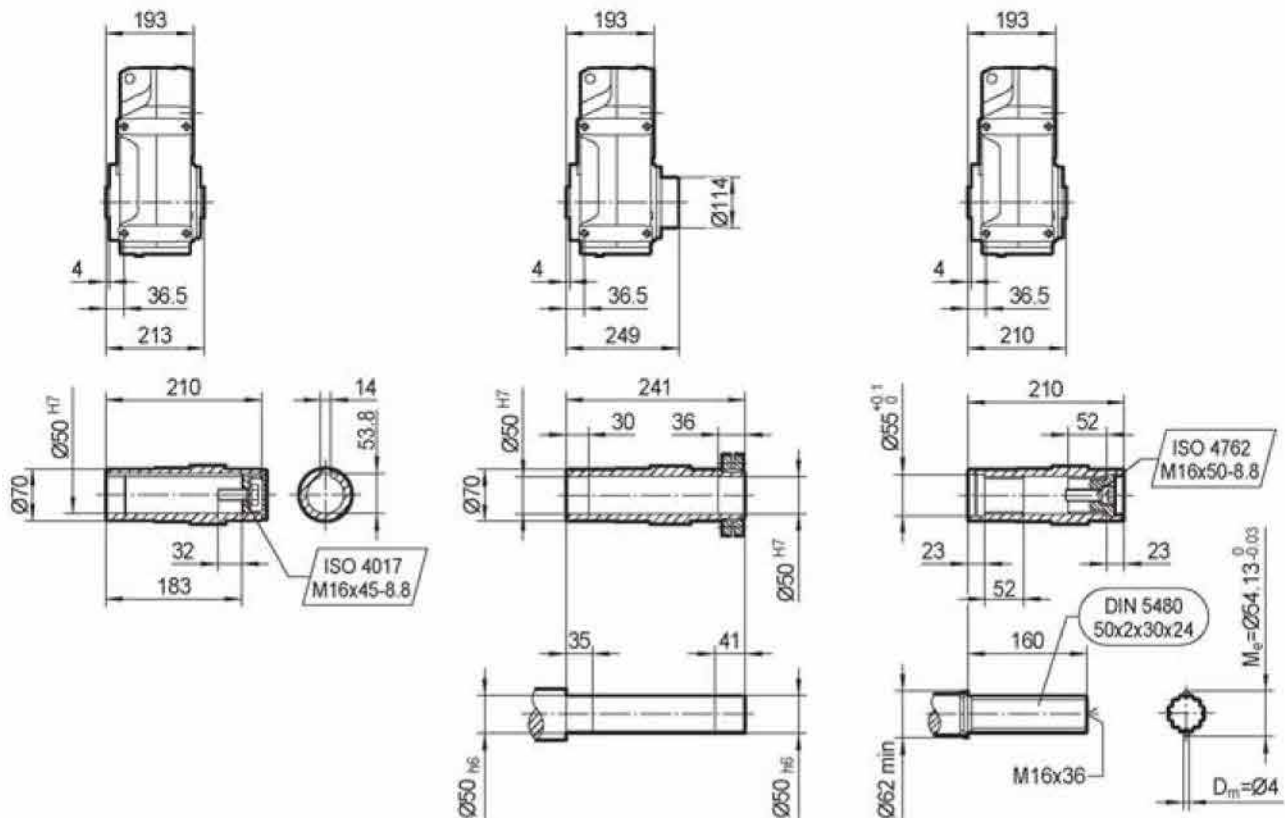
TF78..



TFA78B..

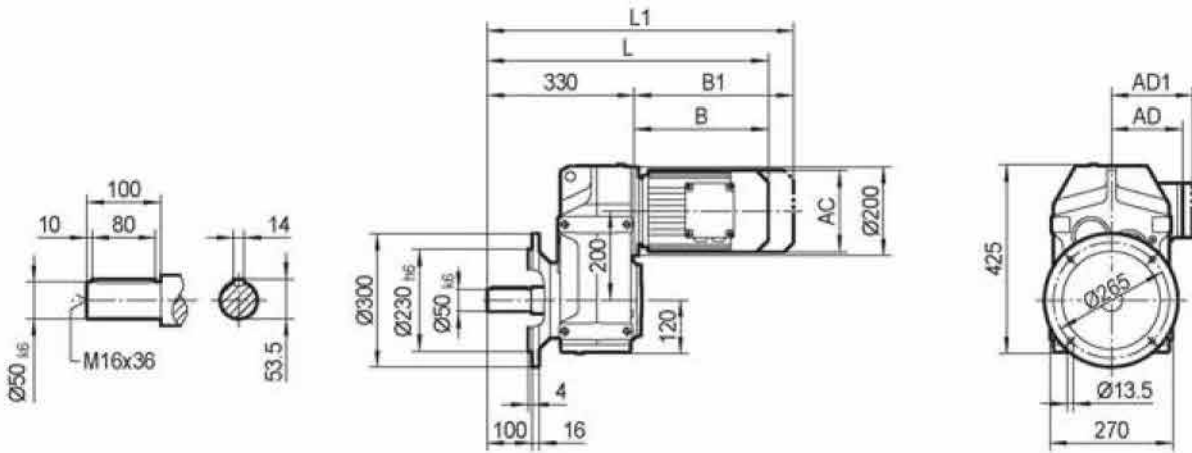
TFH78B..

TFV78B..

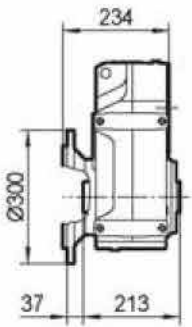


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 |
| B | 179 | 193 | 243 | 261 | 311 | 341 | 345 | 390 | 412 | 472 | 472 |
| B1 | 234 | 257 | 307 | 346 | 396 | 426 | 425 | 470 | 524 | 584 | 584 |
| L | 473 | 487 | 537 | 555 | 605 | 635 | 639 | 684 | 706 | 766 | 766 |
| L1 | 528 | 551 | 601 | 640 | 690 | 720 | 719 | 764 | 818 | 878 | 878 |

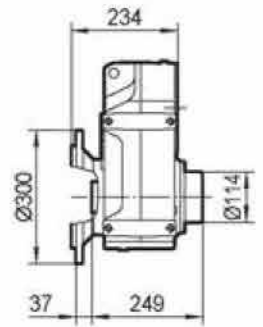
TFF78..



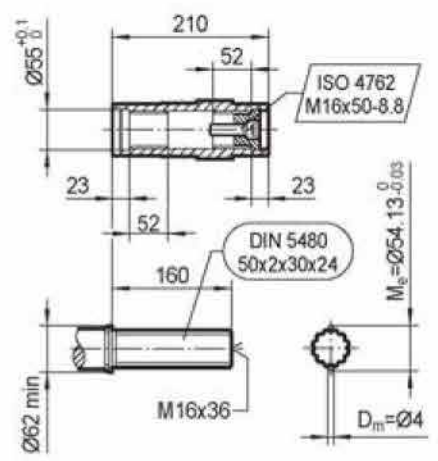
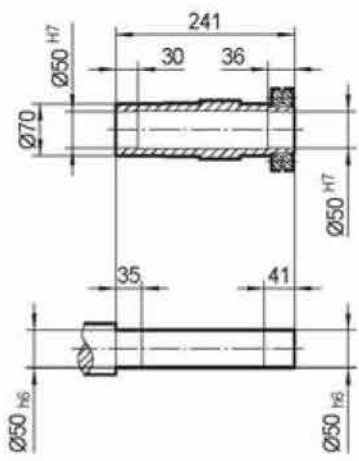
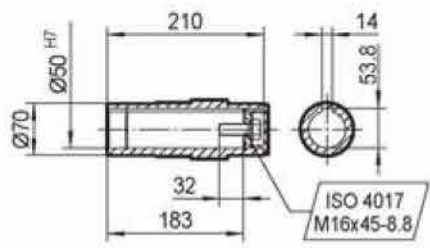
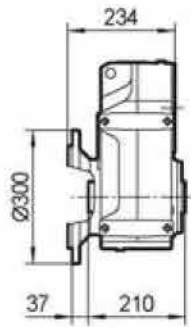
TFAF78..



TFHF78..

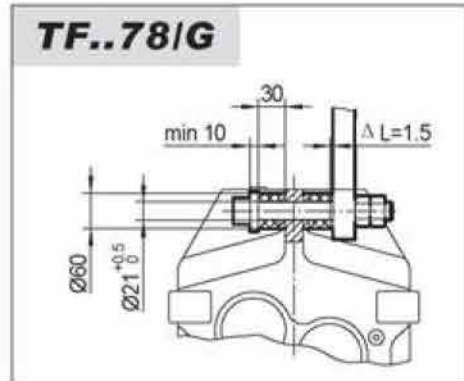
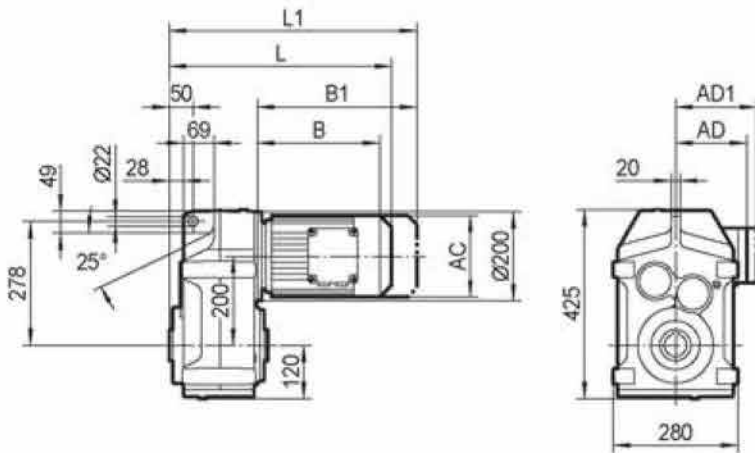


TFVF78..

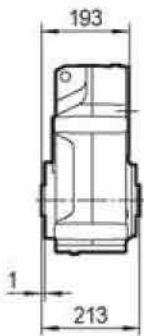


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 |
| B | 179 | 193 | 243 | 261 | 311 | 341 | 345 | 390 | 412 | 472 | 472 |
| B1 | 234 | 257 | 307 | 346 | 396 | 426 | 425 | 470 | 524 | 584 | 584 |
| L | 509 | 523 | 573 | 591 | 641 | 671 | 675 | 720 | 742 | 802 | 802 |
| L1 | 564 | 587 | 637 | 676 | 726 | 756 | 755 | 800 | 854 | 914 | 914 |

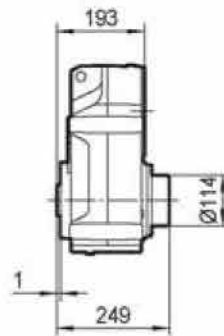
TFA78..



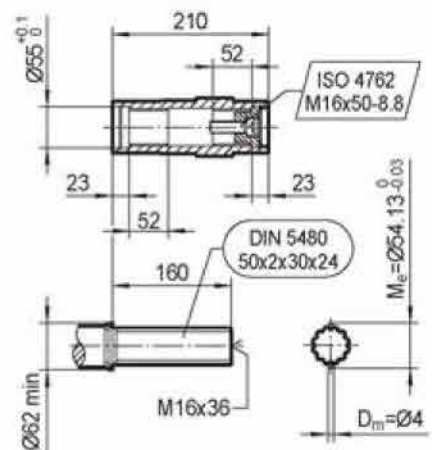
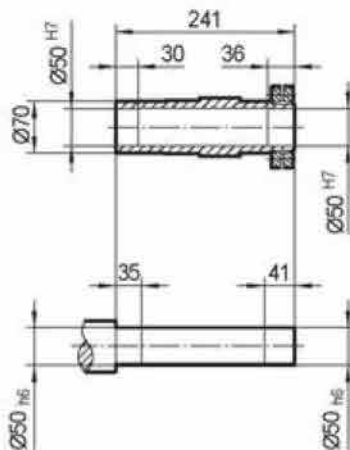
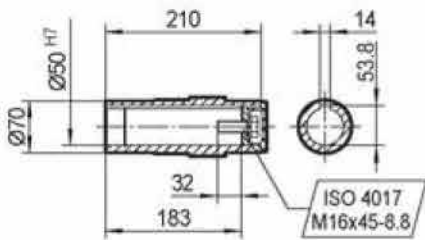
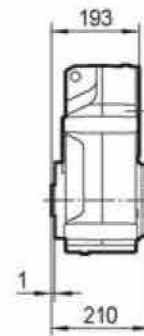
TFA78..



TFH78..

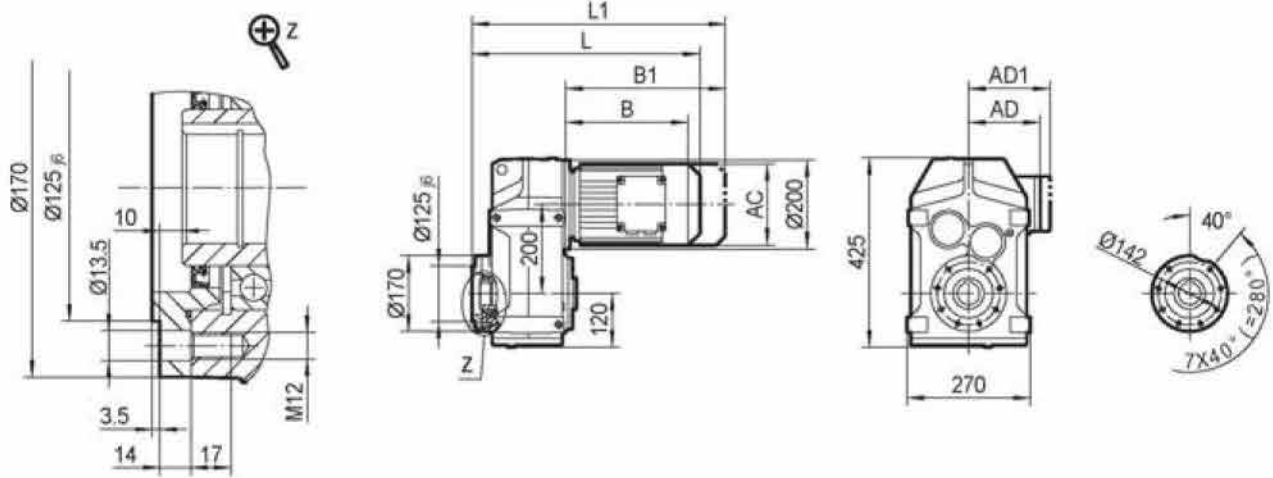


TFV78..

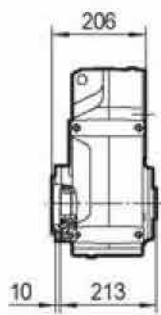


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 |
| B | 179 | 193 | 243 | 261 | 311 | 341 | 345 | 390 | 412 | 472 | 472 |
| B1 | 234 | 257 | 307 | 346 | 396 | 426 | 425 | 470 | 524 | 584 | 584 |
| L | 372 | 386 | 436 | 454 | 504 | 534 | 538 | 583 | 605 | 665 | 665 |
| L1 | 427 | 450 | 500 | 539 | 589 | 619 | 618 | 663 | 717 | 777 | 777 |

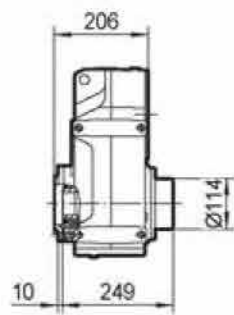
TFAZ78..



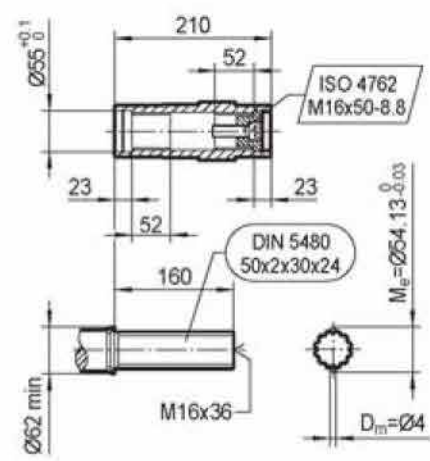
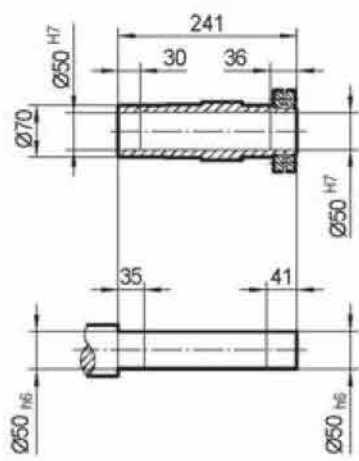
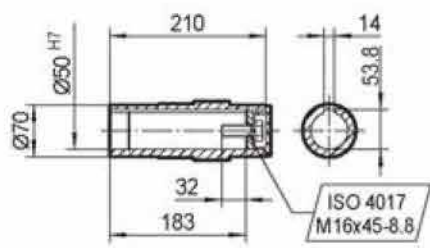
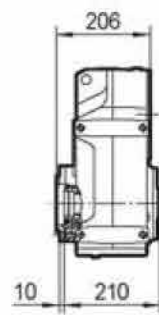
TFAZ78..



TFHZ78..

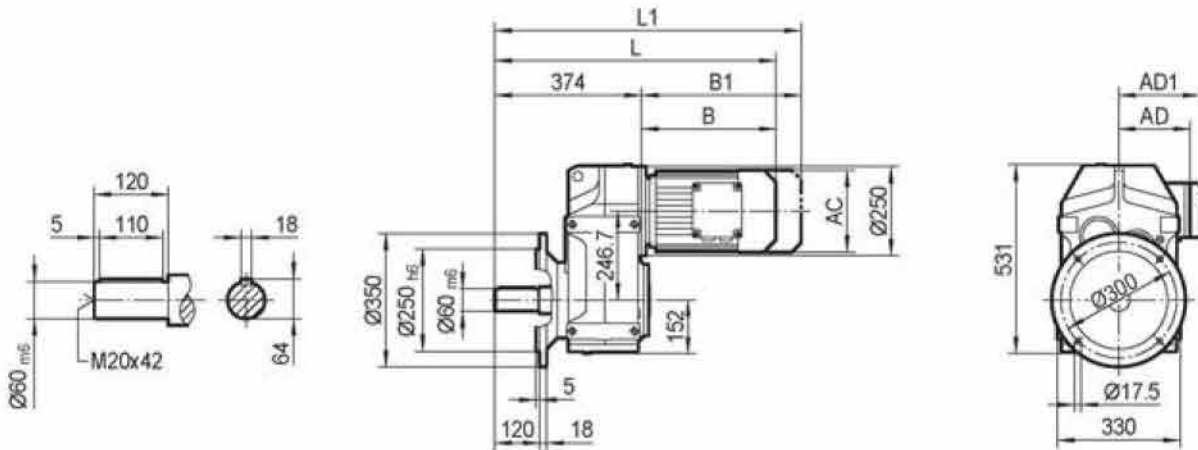


TFVZ78..

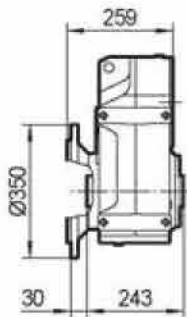


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 132 | 145 | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 |
| AD | 105 | 122 | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 |
| AD1 | 105 | 127 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 |
| B | 179 | 193 | 243 | 261 | 311 | 341 | 345 | 390 | 412 | 472 | 472 |
| B1 | 234 | 257 | 307 | 346 | 396 | 426 | 425 | 470 | 524 | 584 | 584 |
| L | 385 | 399 | 449 | 467 | 517 | 547 | 551 | 596 | 618 | 678 | 678 |
| L1 | 440 | 463 | 513 | 552 | 602 | 632 | 631 | 676 | 730 | 790 | 790 |

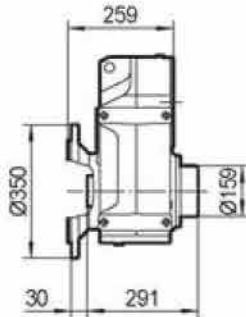
TFF88..



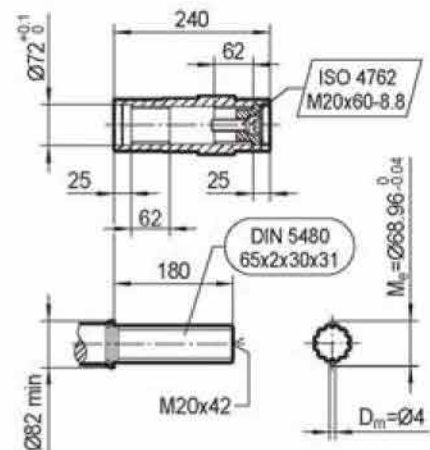
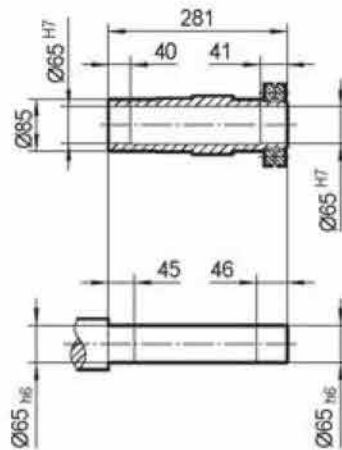
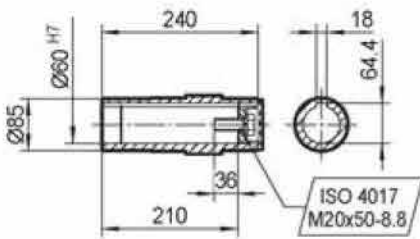
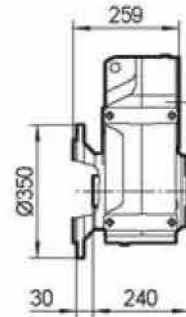
TFAF88..



TFHF88..

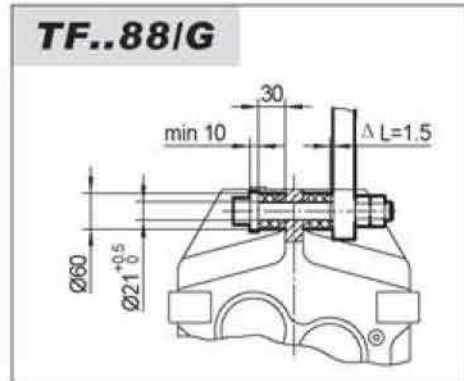
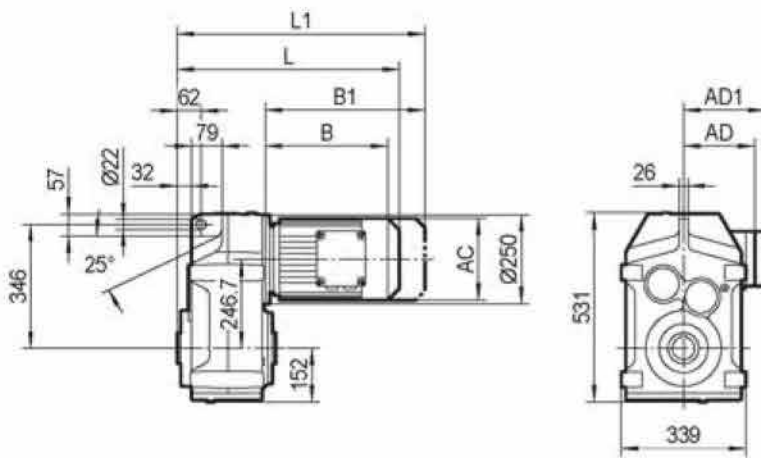


TFVF88..

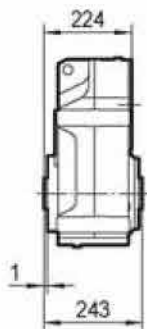


| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. |
|------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 |
| AD | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 |
| AD1 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 |
| B | 238 | 257 | 307 | 337 | 340 | 385 | 407 | 467 | 467 | 514 | 586 |
| B1 | 302 | 342 | 392 | 422 | 420 | 465 | 519 | 579 | 579 | 670 | 742 |
| L | 612 | 631 | 681 | 711 | 714 | 759 | 781 | 841 | 841 | 888 | 960 |
| L1 | 676 | 716 | 766 | 796 | 794 | 839 | 893 | 953 | 953 | 1044 | 1116 |

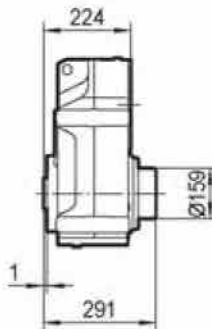
TFA88..



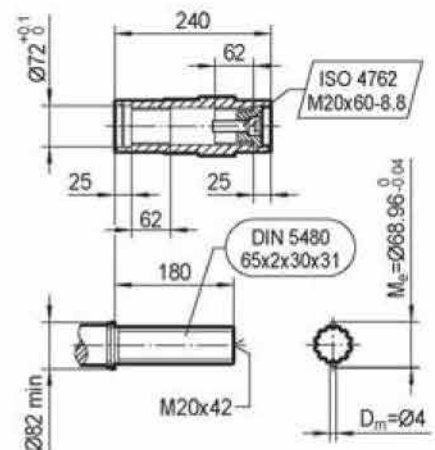
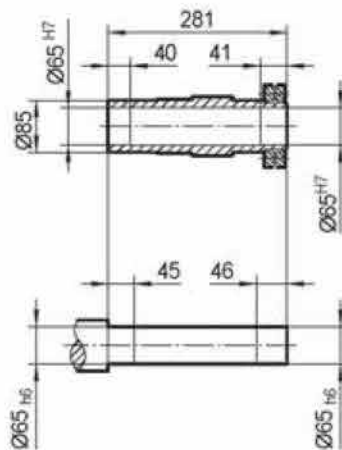
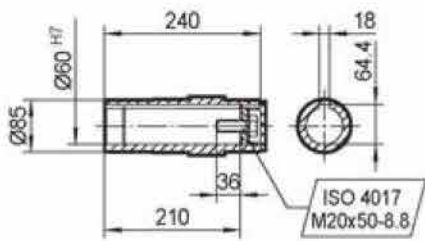
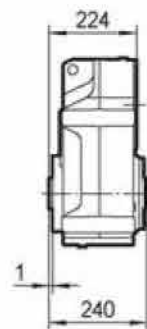
TFA88..



TFH88..

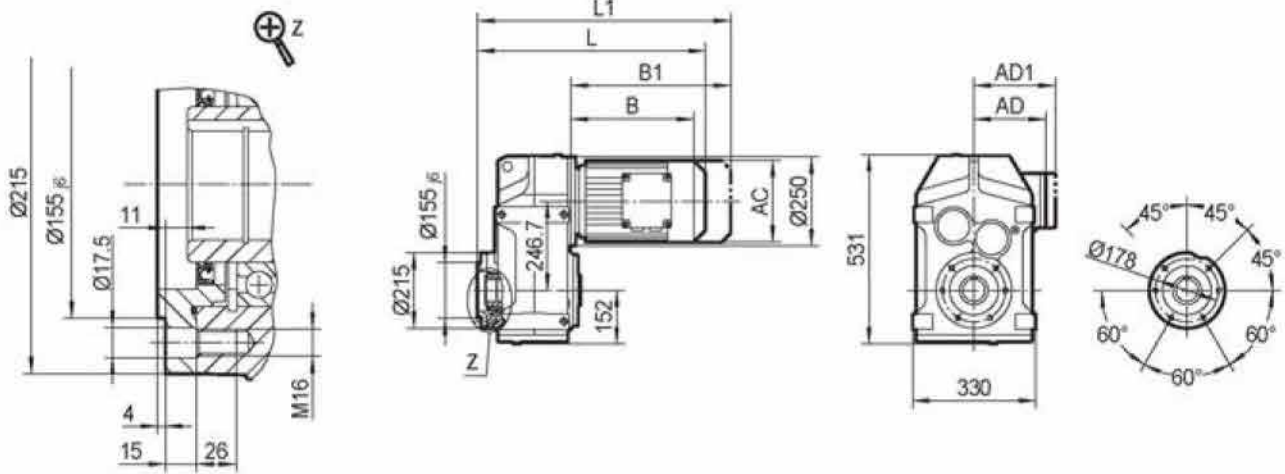


TFV88..

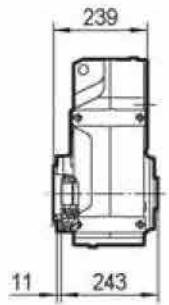


| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. |
|-----|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 |
| AD | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 |
| AD1 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 |
| B | 238 | 257 | 307 | 337 | 340 | 385 | 407 | 467 | 467 | 514 | 586 |
| B1 | 302 | 342 | 392 | 422 | 420 | 465 | 519 | 579 | 579 | 670 | 742 |
| L | 462 | 481 | 531 | 561 | 564 | 609 | 631 | 691 | 691 | 738 | 810 |
| L1 | 526 | 566 | 616 | 646 | 644 | 689 | 743 | 803 | 803 | 894 | 966 |

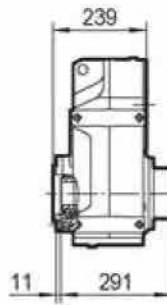
TFAZ88..



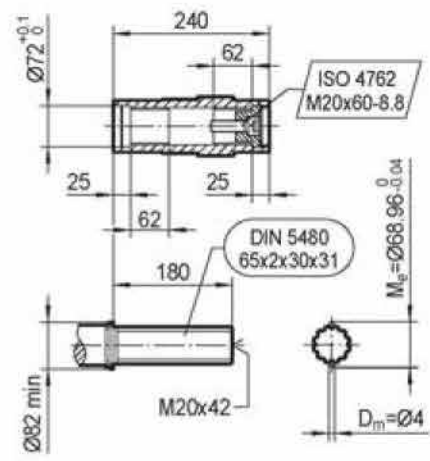
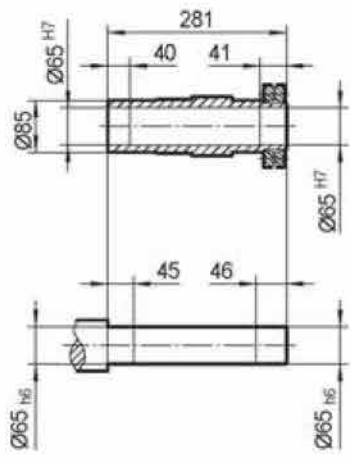
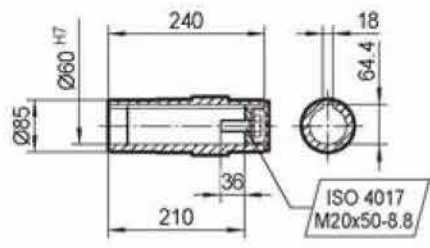
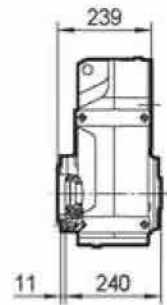
TFAZ88..



TFHZ88..

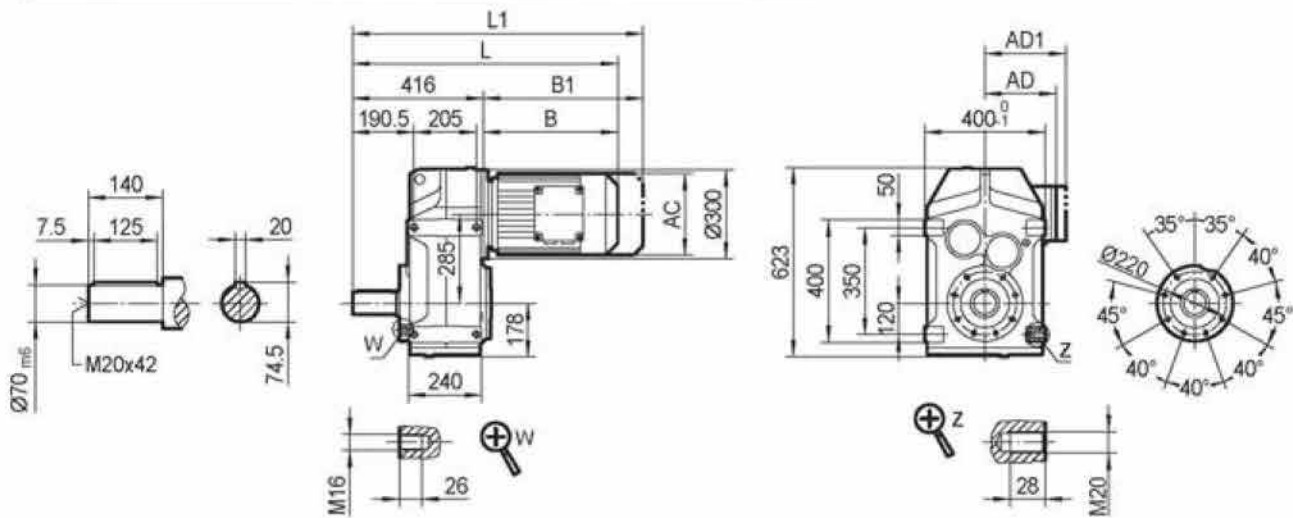


TFVZ88..



| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. |
|------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC | 145 | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 |
| AD | 122 | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 |
| AD1 | 127 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 |
| B | 238 | 257 | 307 | 337 | 340 | 385 | 407 | 467 | 467 | 514 | 586 |
| B1 | 302 | 342 | 392 | 422 | 420 | 465 | 519 | 579 | 579 | 670 | 742 |
| L | 477 | 496 | 546 | 576 | 579 | 624 | 646 | 706 | 706 | 753 | 825 |
| L1 | 541 | 581 | 631 | 661 | 659 | 704 | 758 | 818 | 818 | 909 | 981 |

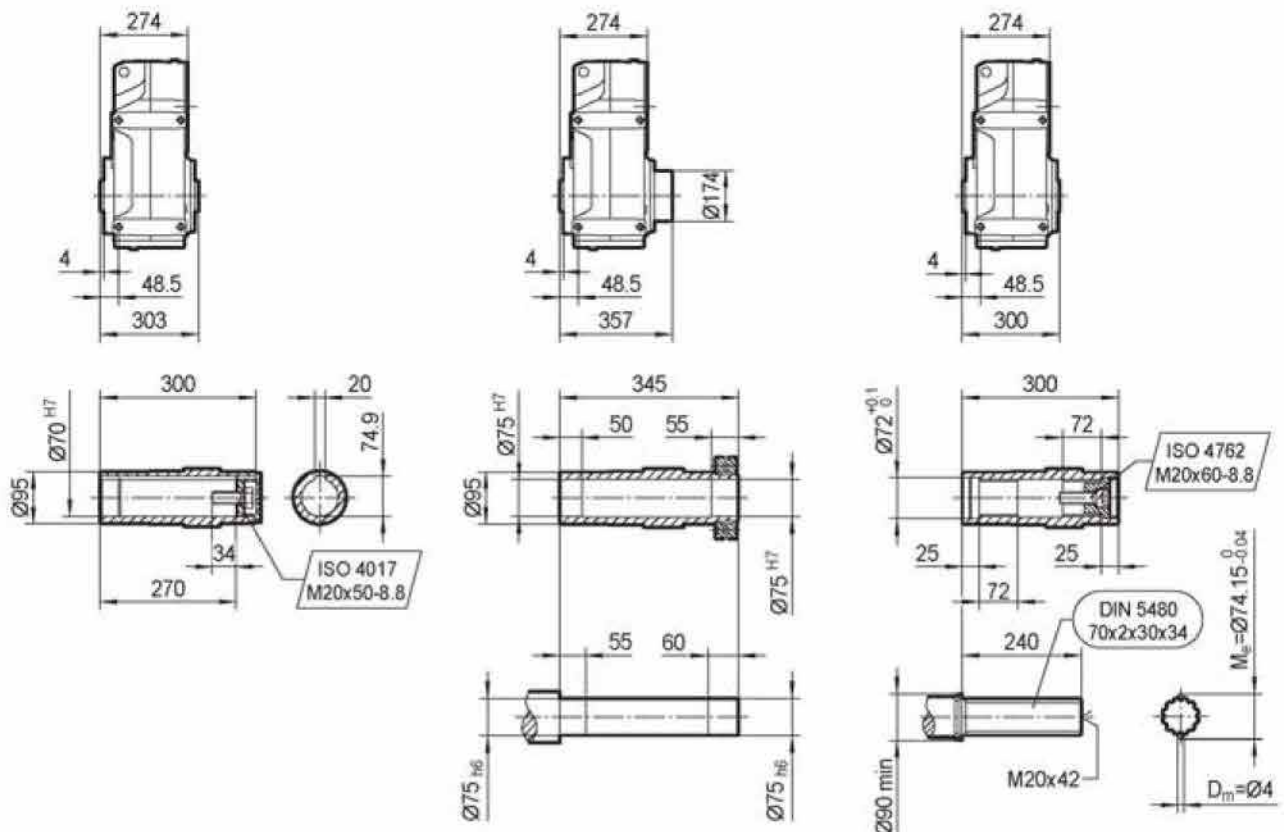
TF98..



TFA98B..

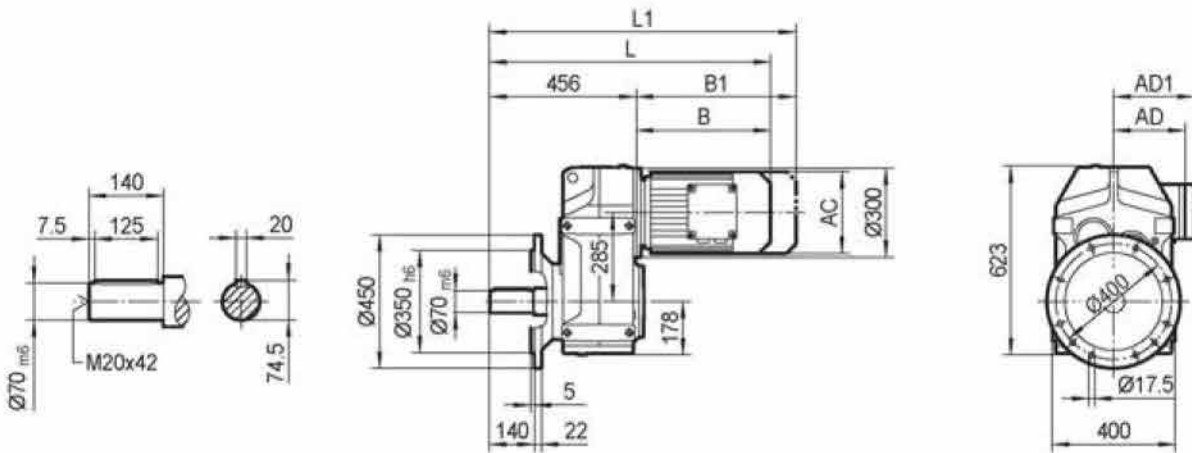
TFH98B..

TFV98B..

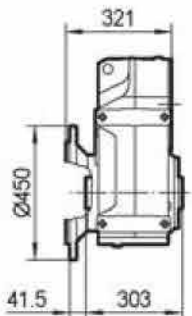


| | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. |
|-----|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 |
| AD | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 |
| AD1 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 |
| B | 251 | 301 | 331 | 335 | 380 | 402 | 462 | 462 | 509 | 581 | 629 |
| B1 | 336 | 386 | 416 | 415 | 460 | 514 | 574 | 574 | 665 | 737 | 785 |
| L | 667 | 717 | 747 | 751 | 796 | 818 | 878 | 878 | 925 | 997 | 1045 |
| L1 | 752 | 802 | 832 | 831 | 876 | 930 | 990 | 990 | 1081 | 1153 | 1201 |

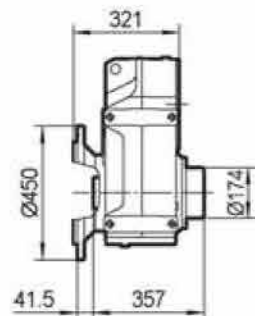
TFF98..



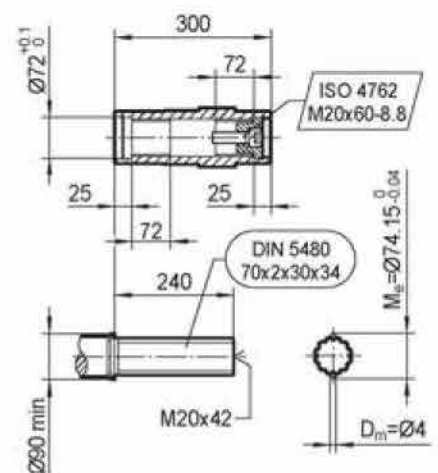
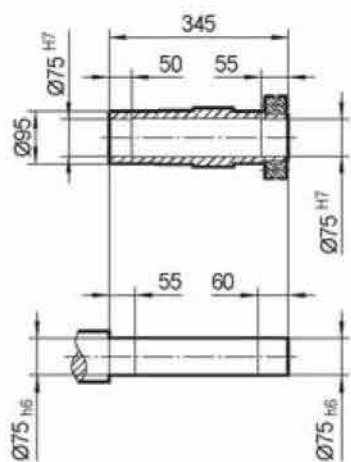
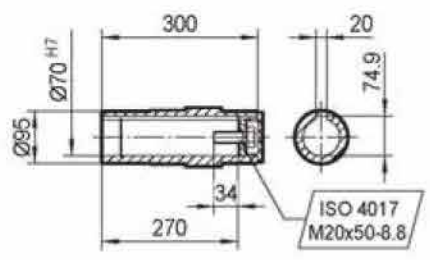
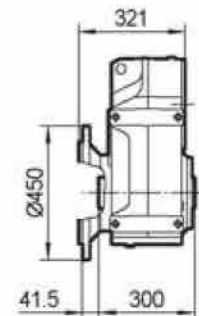
TFAF98..



TFHF98..

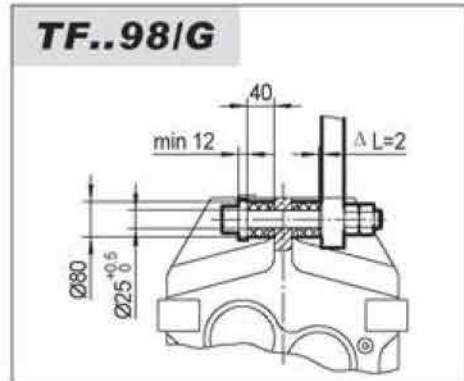
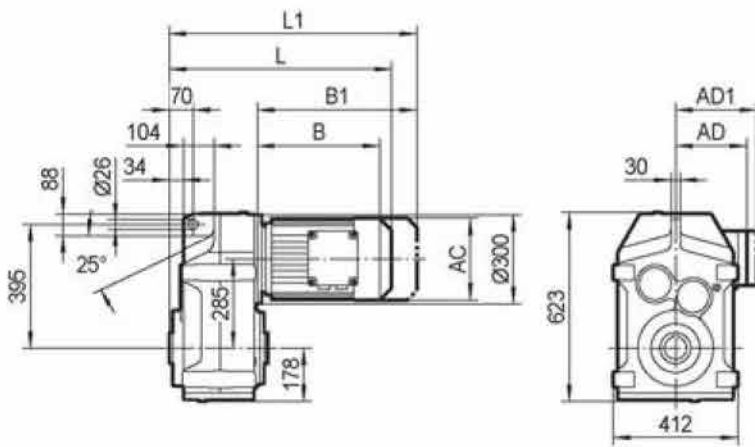


TFVF98..

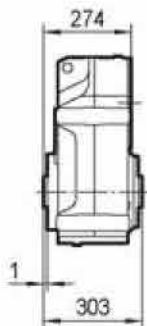


| | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. |
|------------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 |
| AD | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 |
| AD1 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 |
| B | 251 | 301 | 331 | 335 | 380 | 402 | 462 | 462 | 509 | 581 | 629 |
| B1 | 336 | 386 | 416 | 415 | 460 | 514 | 574 | 574 | 665 | 737 | 785 |
| L | 707 | 757 | 787 | 791 | 836 | 858 | 918 | 918 | 965 | 1037 | 1085 |
| L1 | 792 | 842 | 872 | 871 | 916 | 970 | 1030 | 1030 | 1121 | 1193 | 1241 |

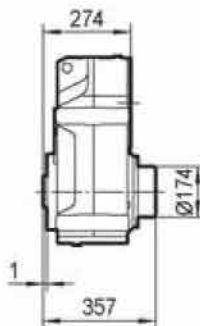
TFA98..



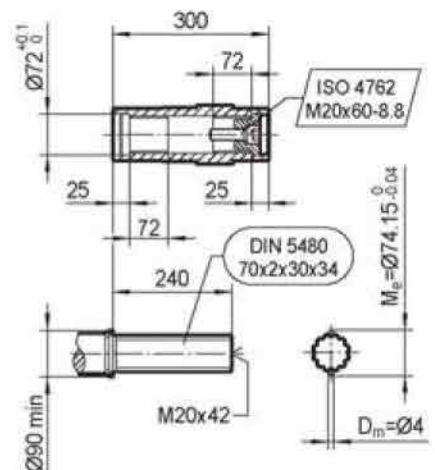
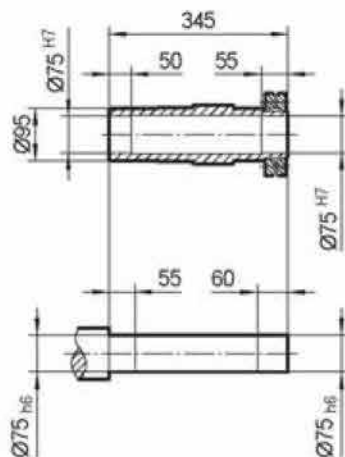
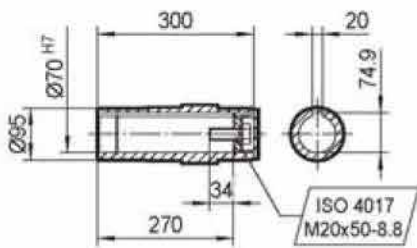
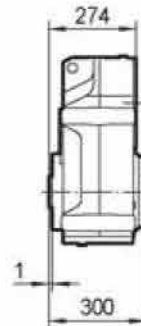
TFA98..



TFH98..

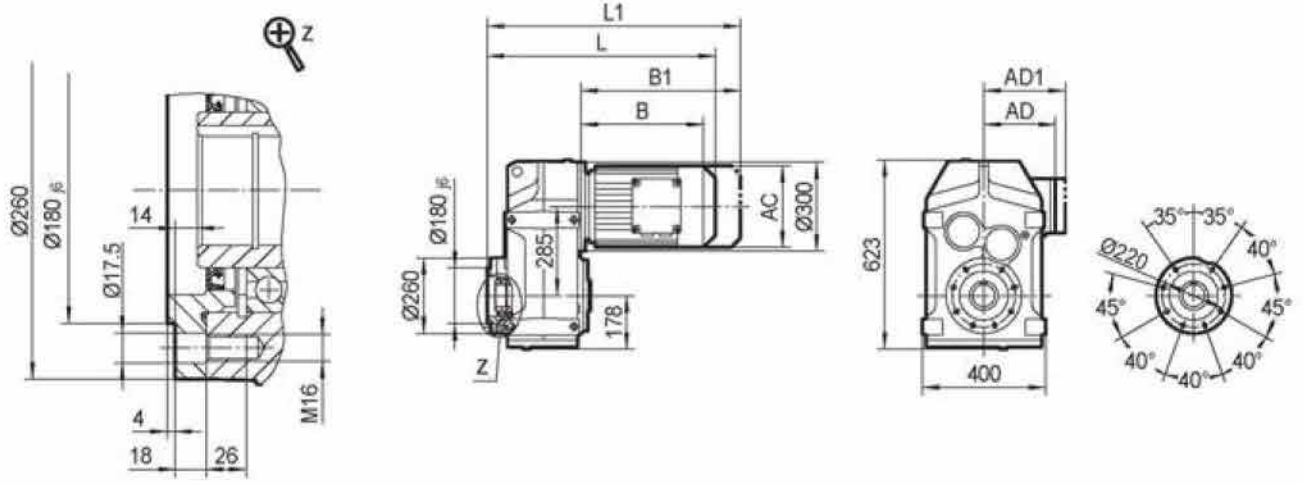


TFV98..

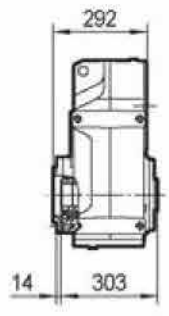


| | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. |
|-----|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 |
| AD | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 |
| AD1 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 |
| B | 251 | 301 | 331 | 335 | 380 | 402 | 462 | 462 | 509 | 581 | 629 |
| B1 | 336 | 386 | 416 | 415 | 460 | 514 | 574 | 574 | 665 | 737 | 785 |
| L | 525 | 575 | 605 | 609 | 654 | 676 | 736 | 736 | 783 | 855 | 903 |
| L1 | 610 | 660 | 690 | 689 | 734 | 788 | 848 | 848 | 939 | 1011 | 1059 |

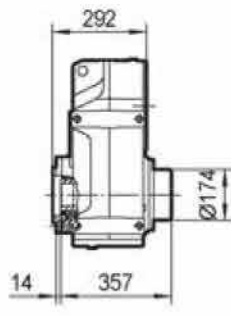
TFAZ98..



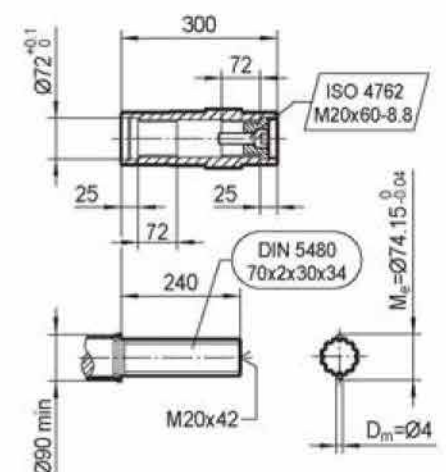
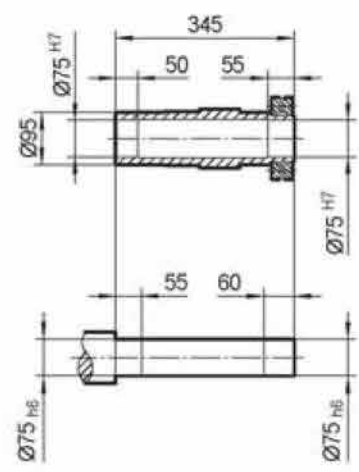
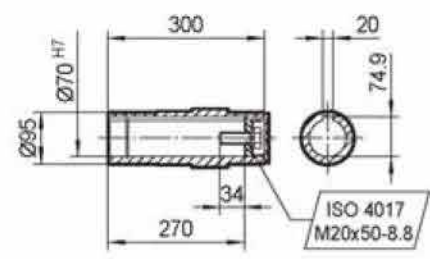
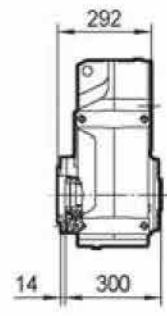
TFAZ98..



TFHZ98..

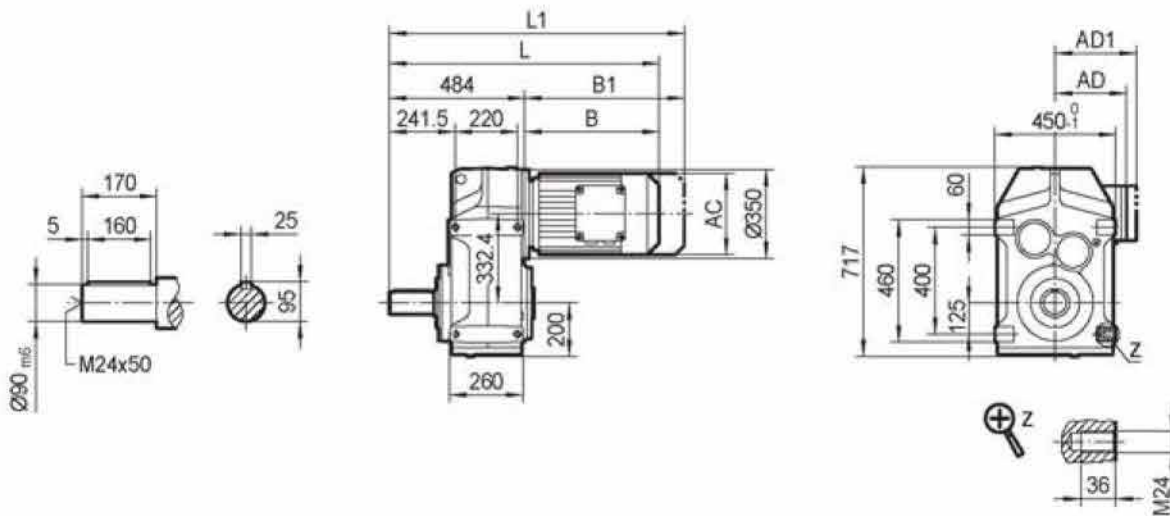


TFVZ98..



| | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. |
|------------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC | 197 | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 |
| AD | 154 | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 |
| AD1 | 161 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 |
| B | 251 | 301 | 331 | 335 | 380 | 402 | 462 | 462 | 509 | 581 | 629 |
| B1 | 336 | 386 | 416 | 415 | 460 | 514 | 574 | 574 | 665 | 737 | 785 |
| L | 543 | 593 | 623 | 627 | 672 | 694 | 754 | 754 | 801 | 873 | 921 |
| L1 | 628 | 678 | 708 | 707 | 752 | 806 | 866 | 866 | 957 | 1029 | 1077 |

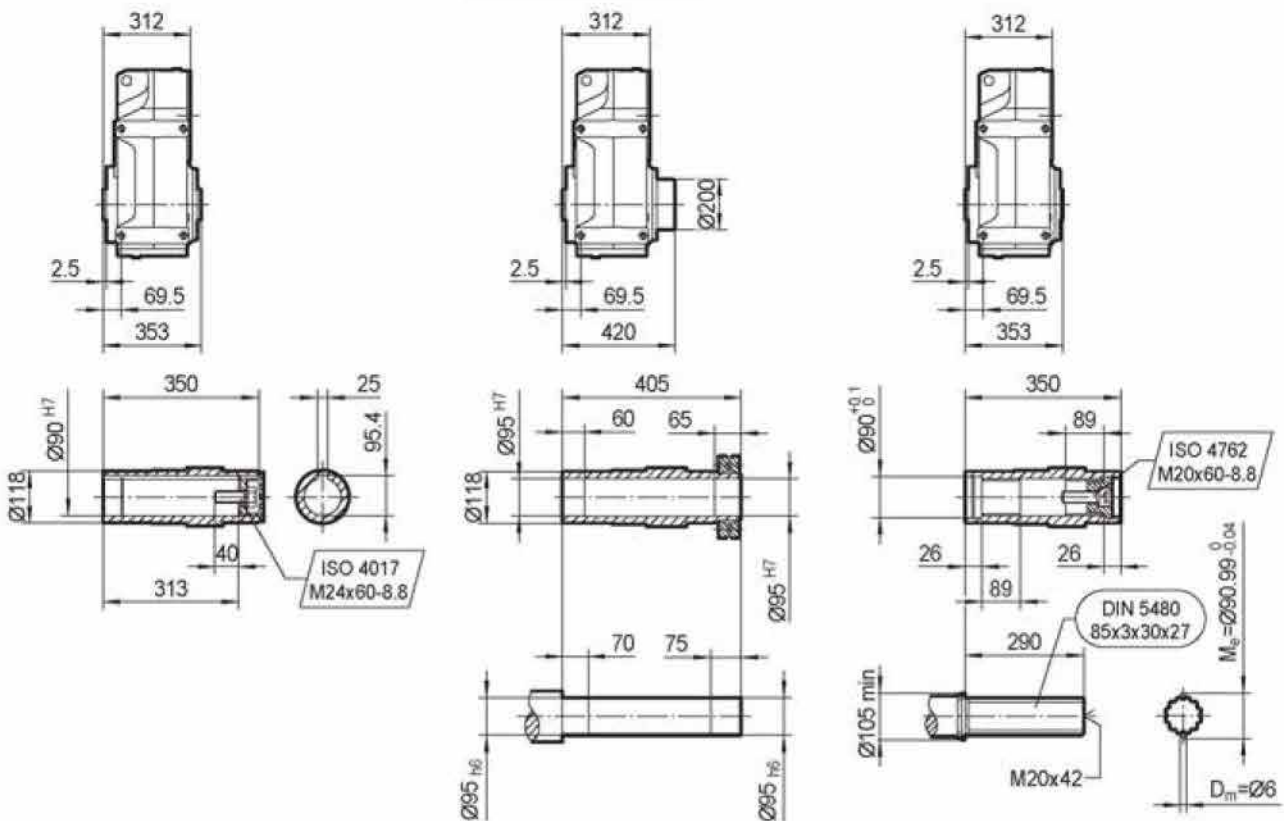
TF108..



TFA108B..

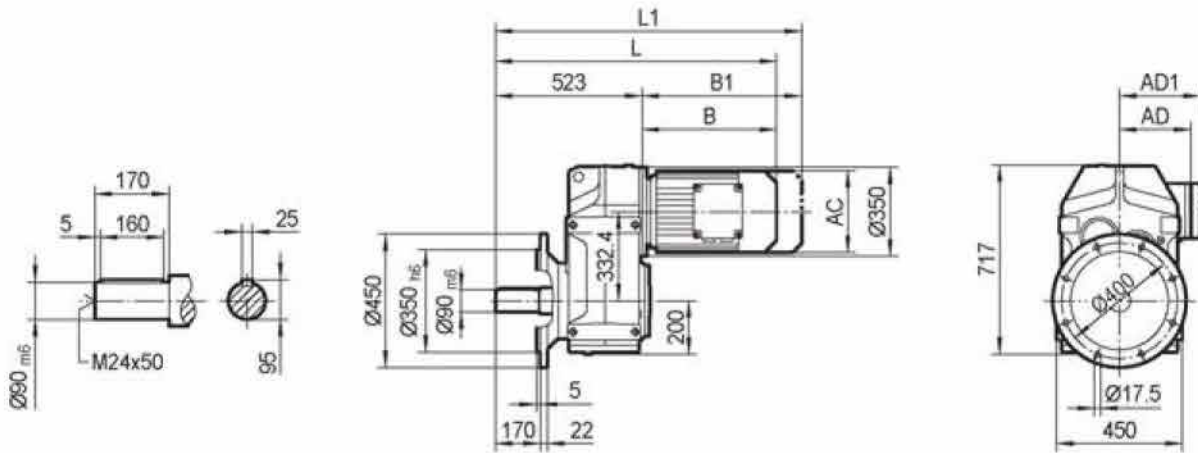
TFH108B..

TFV108B..

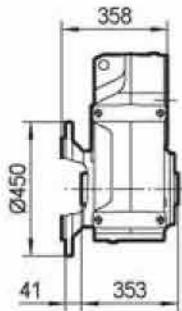


| | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. |
|-----|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 | 394 |
| AD | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| AD1 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| B | 295 | 325 | 329 | 374 | 396 | 456 | 456 | 503 | 575 | 623 | 705 |
| B1 | 380 | 410 | 409 | 454 | 508 | 568 | 568 | 659 | 731 | 779 | 861 |
| L | 779 | 809 | 813 | 858 | 880 | 940 | 940 | 987 | 1059 | 1107 | 1189 |
| L1 | 864 | 894 | 893 | 938 | 992 | 1052 | 1052 | 1143 | 1215 | 1263 | 1345 |

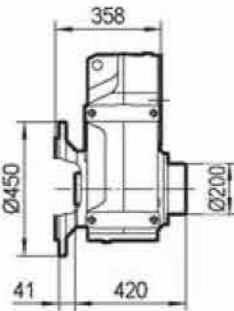
TFF108..



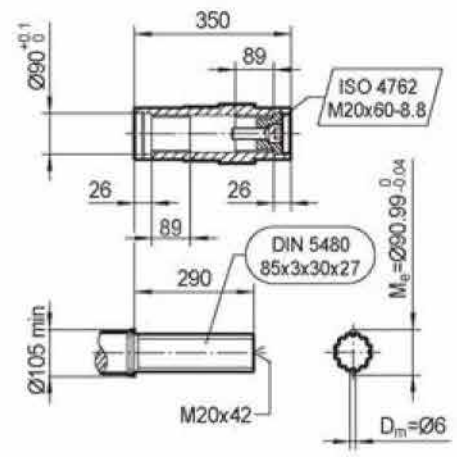
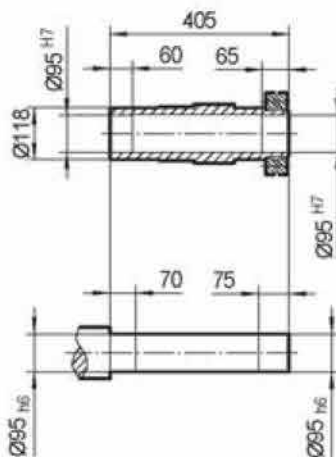
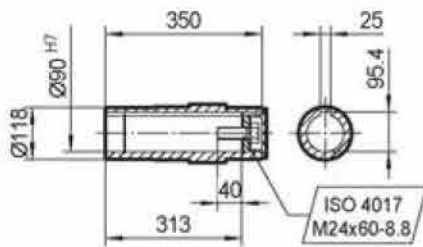
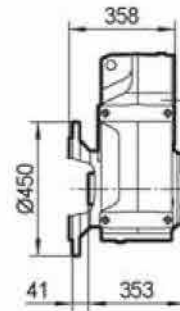
TFAF108..



TFHF108..

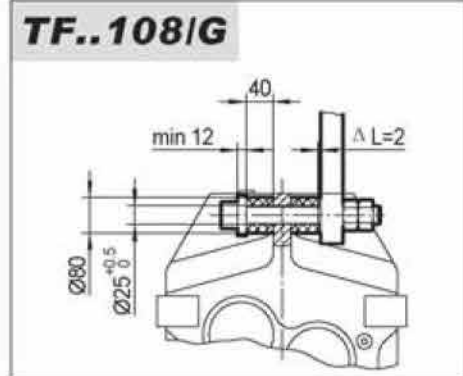
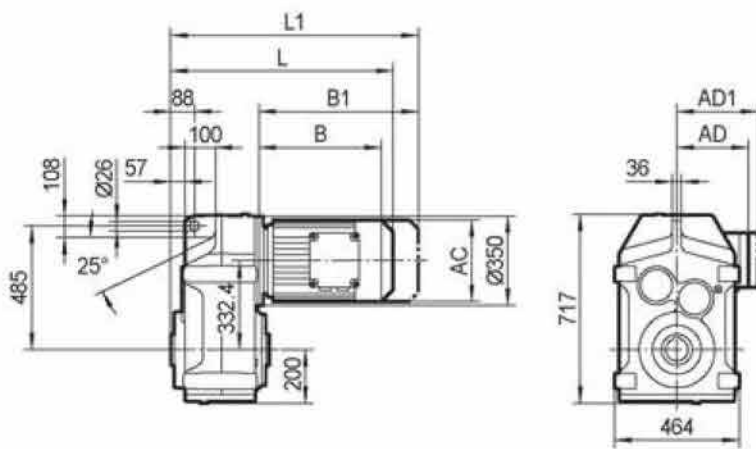


TFVF108..



| | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. |
|------------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 | 394 |
| AD | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| AD1 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| B | 295 | 325 | 329 | 374 | 396 | 456 | 456 | 503 | 575 | 623 | 705 |
| B1 | 380 | 410 | 409 | 454 | 508 | 568 | 568 | 659 | 731 | 779 | 861 |
| L | 818 | 848 | 852 | 897 | 919 | 979 | 979 | 1026 | 1098 | 1146 | 1228 |
| L1 | 903 | 933 | 932 | 977 | 1031 | 1091 | 1091 | 1182 | 1254 | 1302 | 1384 |

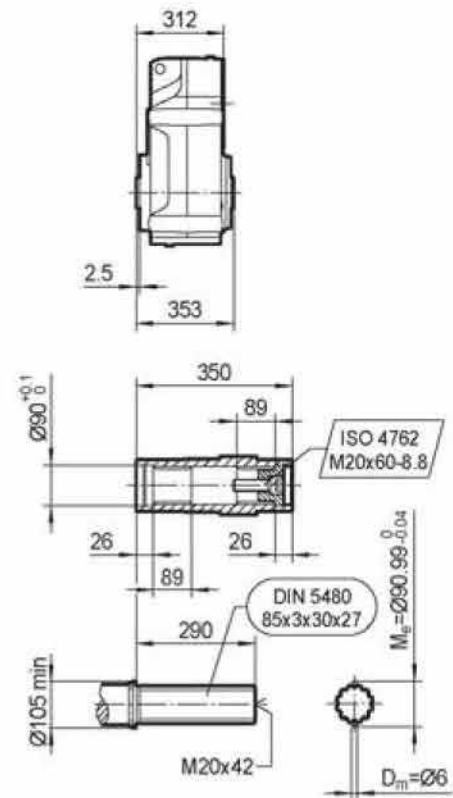
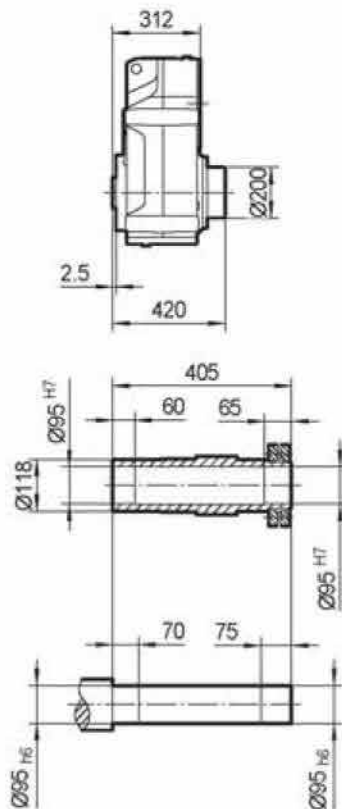
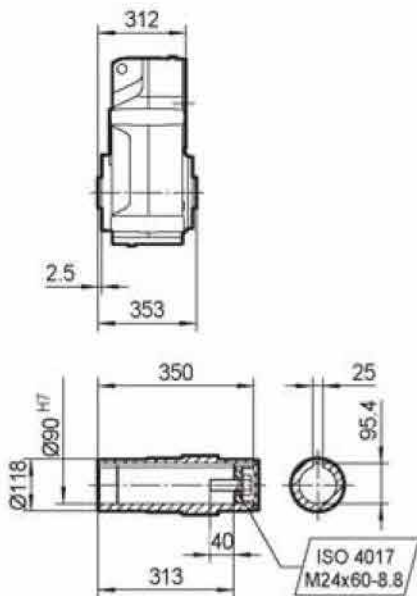
TFA108..



TFA108..

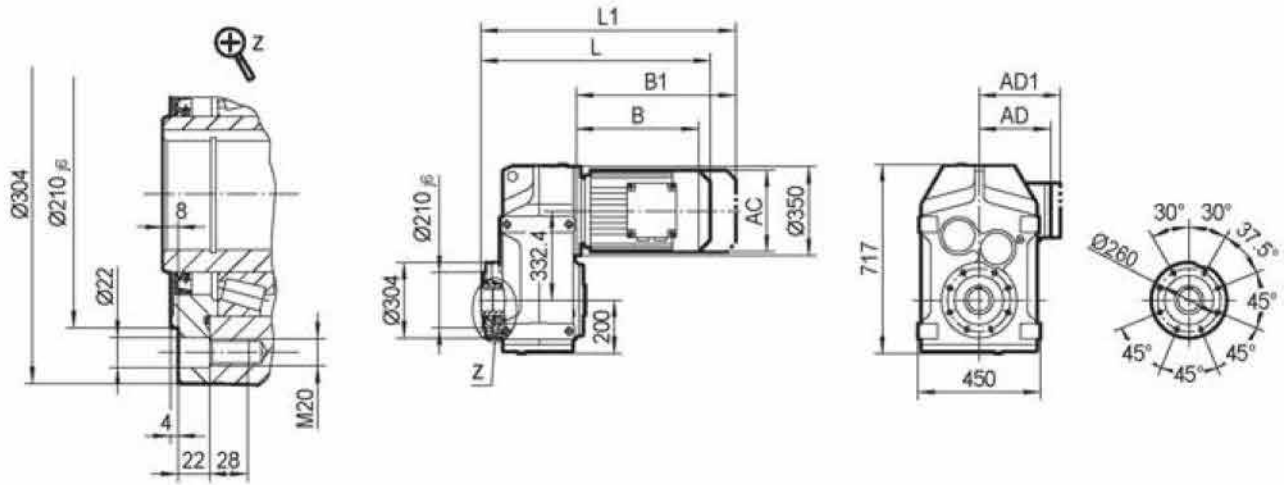
TFH108..

TFV108..

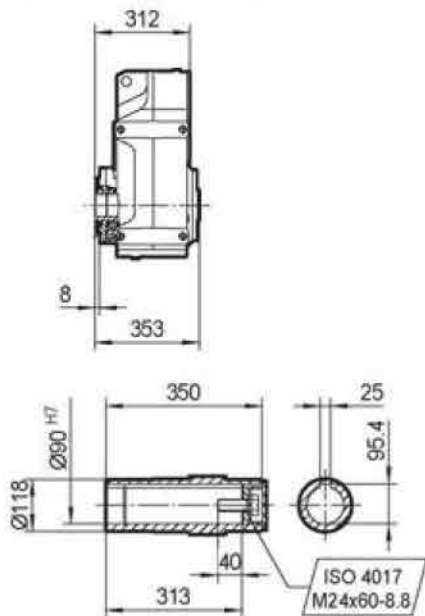


| | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. |
|-----|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 | 394 |
| AD | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| AD1 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| B | 295 | 325 | 329 | 374 | 396 | 456 | 456 | 503 | 575 | 623 | 705 |
| B1 | 380 | 410 | 409 | 454 | 508 | 568 | 568 | 659 | 731 | 779 | 861 |
| L | 607 | 637 | 641 | 686 | 708 | 768 | 768 | 815 | 887 | 935 | 1017 |
| L1 | 692 | 722 | 721 | 766 | 820 | 880 | 880 | 971 | 1043 | 1091 | 1173 |

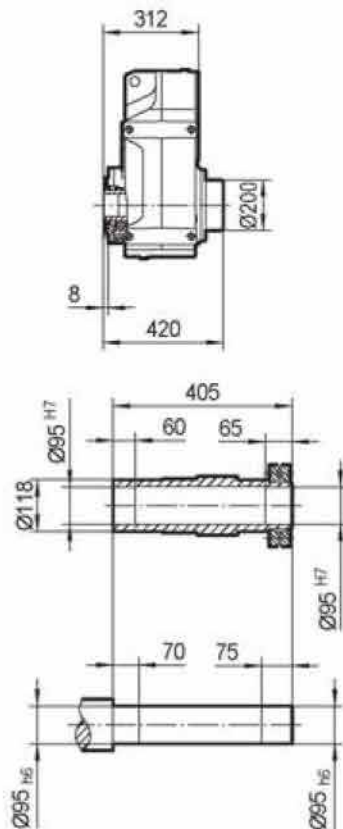
TFAZ108..



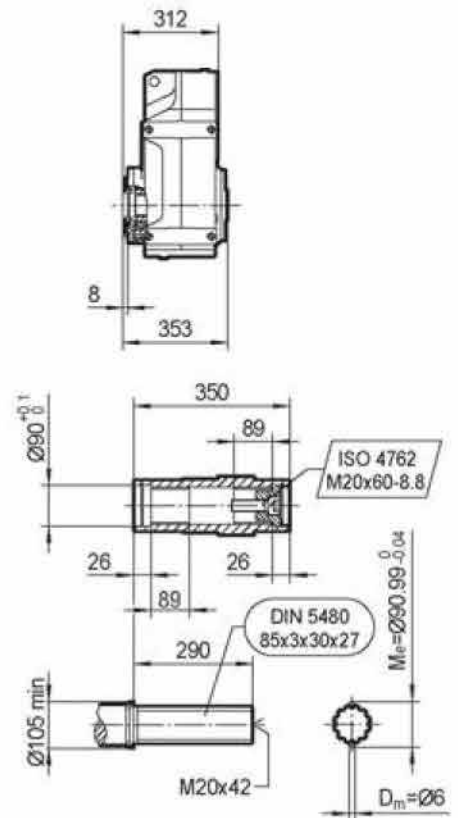
TFAZ108..



TFHZ108..

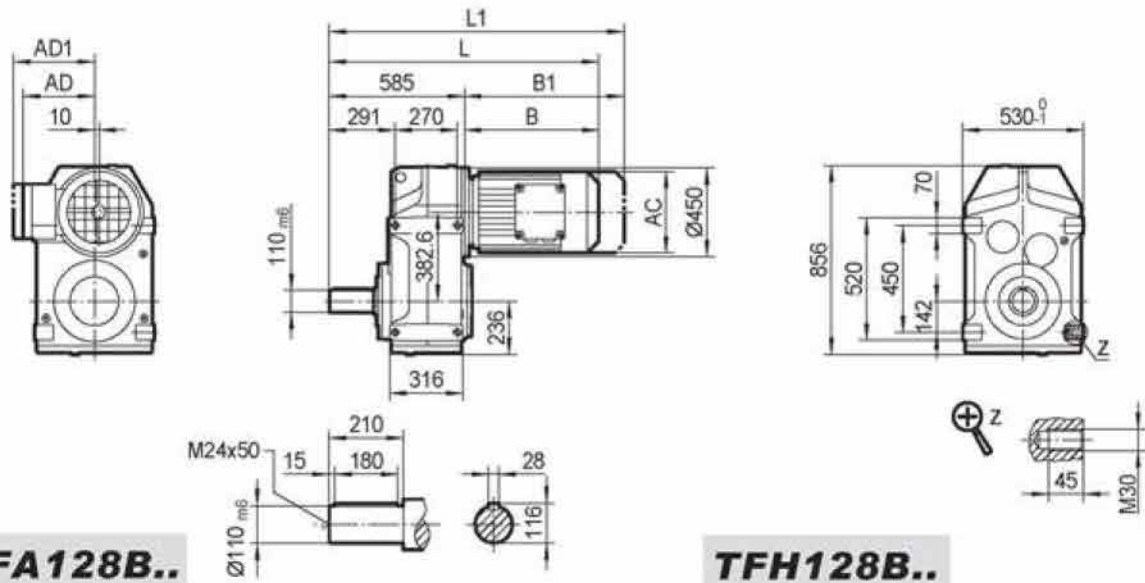


TFVZ108..



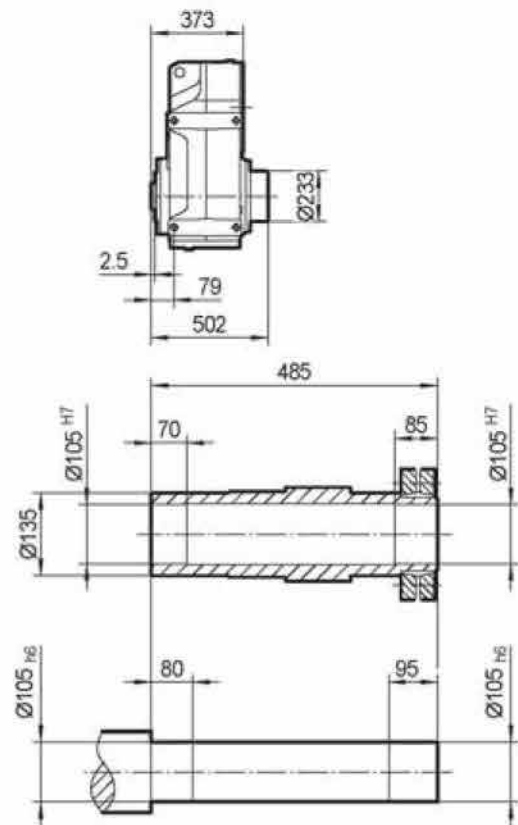
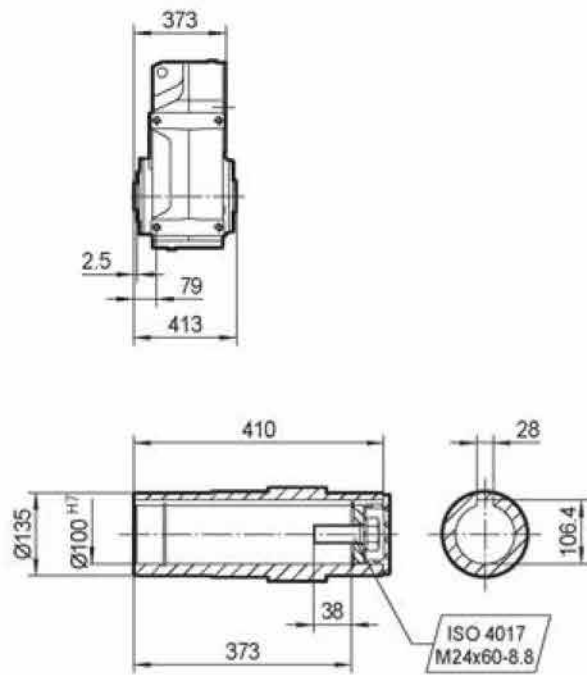
| | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. |
|------------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC | 197 | 197 | 221 | 221 | 275 | 275 | 275 | 331 | 331 | 394 | 394 |
| AD | 166 | 166 | 179 | 179 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| AD1 | 166 | 166 | 182 | 182 | 230 | 230 | 230 | 258 | 258 | 285 | 289 |
| B | 295 | 325 | 329 | 374 | 396 | 456 | 456 | 503 | 575 | 623 | 705 |
| B1 | 380 | 410 | 409 | 454 | 508 | 568 | 568 | 659 | 731 | 779 | 861 |
| L | 607 | 637 | 641 | 686 | 708 | 768 | 768 | 815 | 887 | 935 | 1017 |
| L1 | 692 | 722 | 721 | 766 | 820 | 880 | 880 | 971 | 1043 | 1091 | 1173 |

TF128..



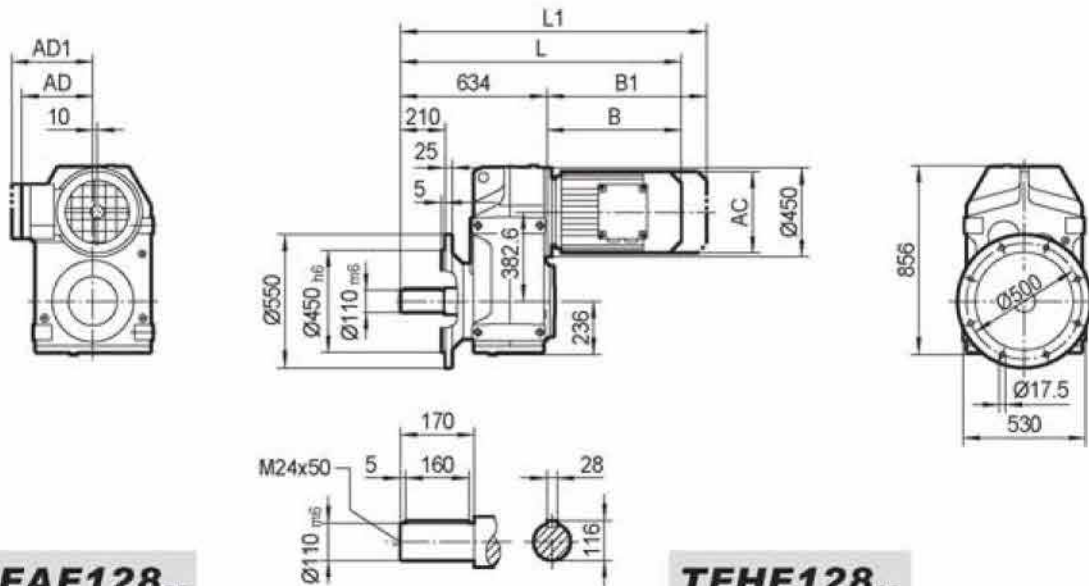
TFA128B..

TFH128B..



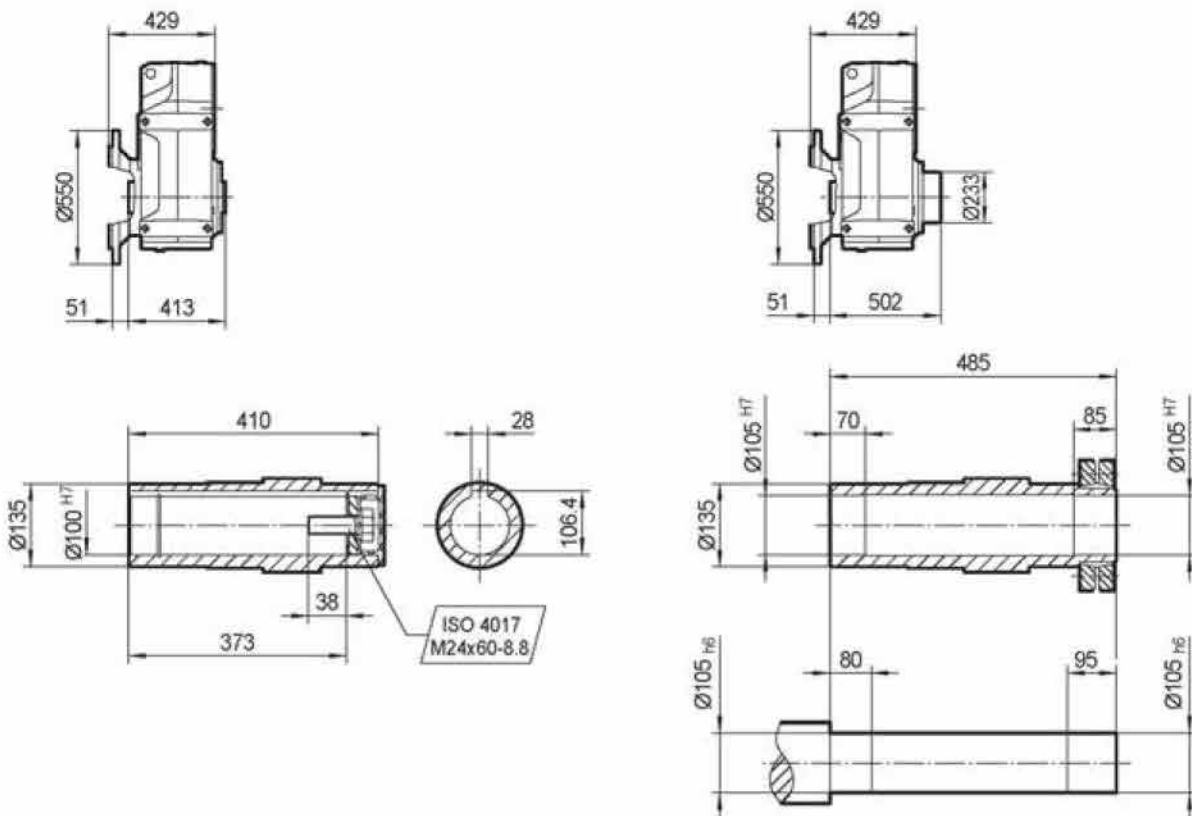
| | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | | |
|-----|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|
| AC | 275 | 275 | 275 | 331 | 331 | 394 | 394 | 510 | 510 | | |
| AD | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| AD1 | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| B | 381 | 441 | 441 | 488 | 560 | 608 | 690 | 780 | 780 | | |
| B1 | 493 | 553 | 553 | 644 | 716 | 764 | 846 | 965 | 965 | | |
| L | 966 | 1026 | 1026 | 1073 | 1145 | 1193 | 1275 | 1365 | 1365 | | |
| L1 | 1078 | 1138 | 1138 | 1229 | 1301 | 1349 | 1431 | 1550 | 1550 | | |

TFF128..



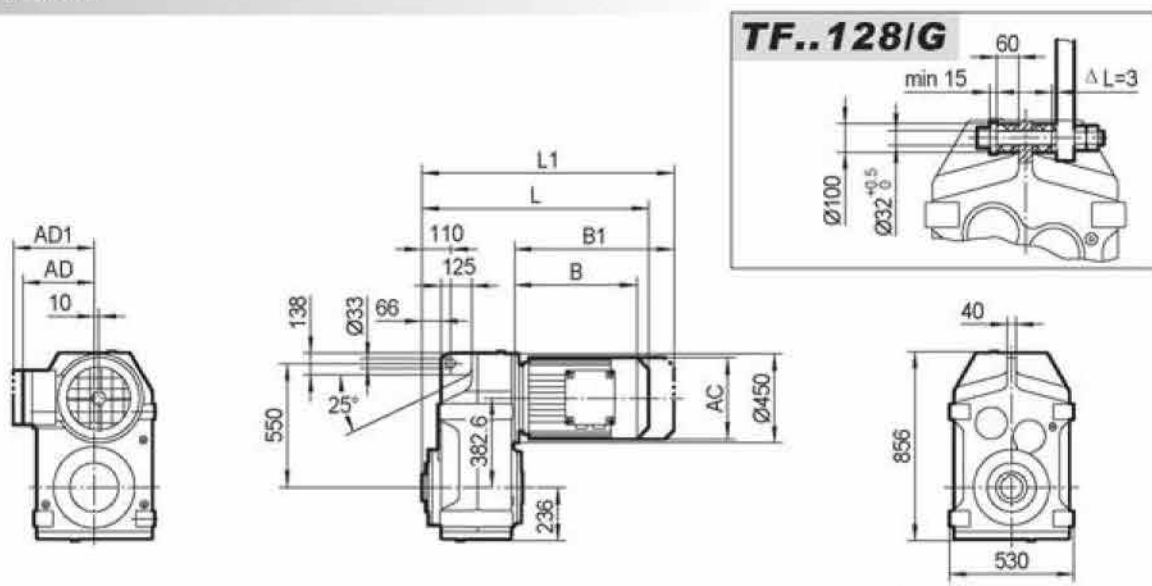
TFAF128..

TFHF128..

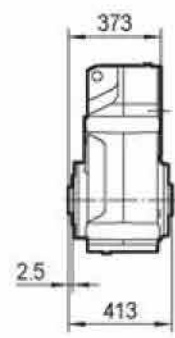


| | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | | |
|------------|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|
| AC | 275 | 275 | 275 | 331 | 331 | 394 | 394 | 510 | 510 | | |
| AD | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| AD1 | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| B | 381 | 441 | 441 | 488 | 560 | 608 | 690 | 780 | 780 | | |
| B1 | 493 | 553 | 553 | 644 | 716 | 764 | 846 | 965 | 965 | | |
| L | 1015 | 1075 | 1075 | 1122 | 1194 | 1242 | 1324 | 1414 | 1414 | | |
| L1 | 1127 | 1187 | 1187 | 1278 | 1350 | 1398 | 1480 | 1599 | 1599 | | |

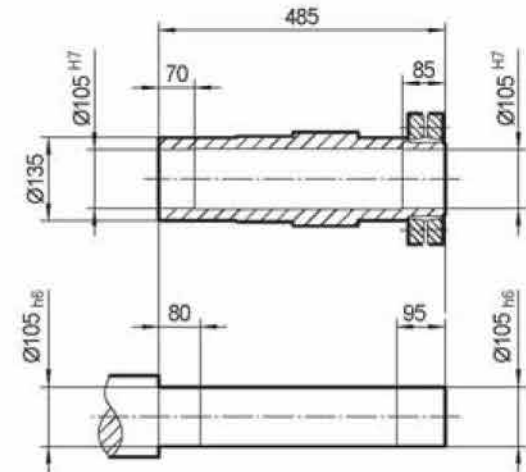
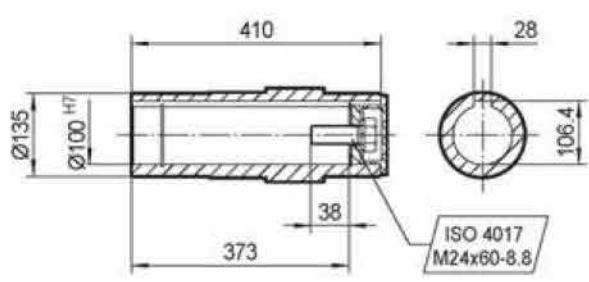
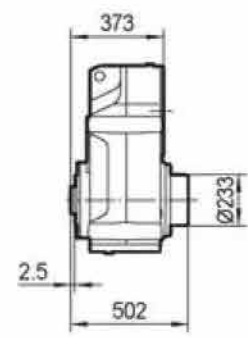
TFA128..



TFA128..

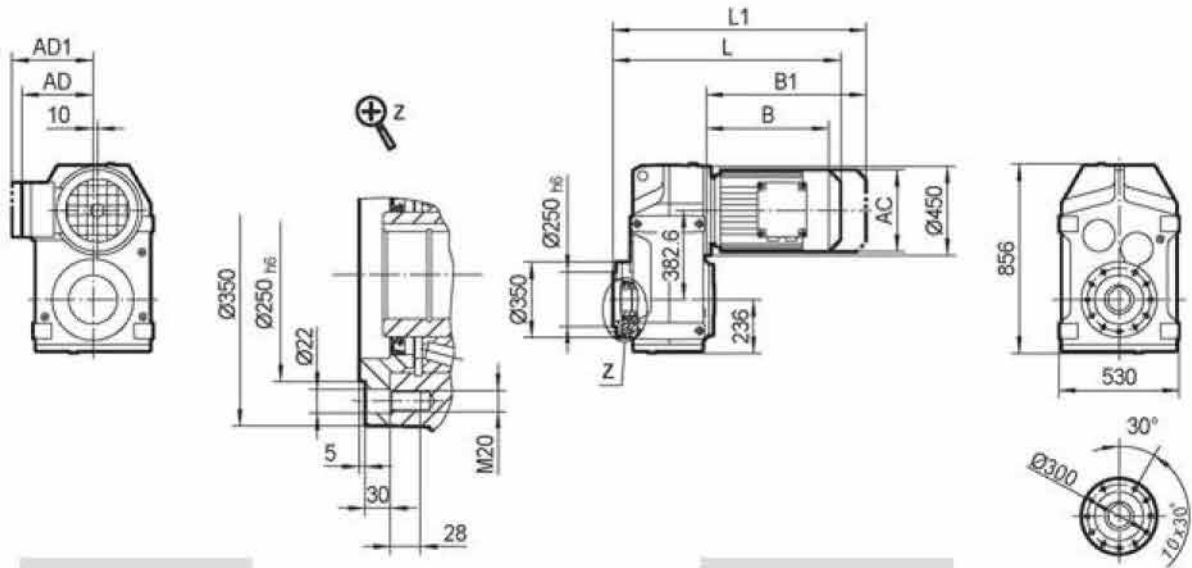


TFH128..

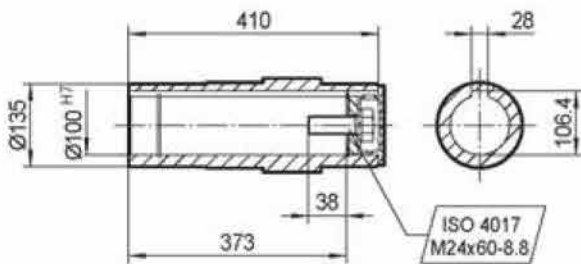
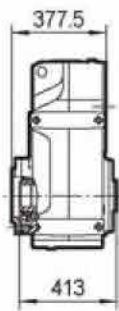


| | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | | |
|-----|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|
| AC | 275 | 275 | 275 | 331 | 331 | 394 | 394 | 510 | 510 | | |
| AD | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| AD1 | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| B | 381 | 441 | 441 | 488 | 560 | 608 | 690 | 780 | 780 | | |
| B1 | 493 | 553 | 553 | 644 | 716 | 764 | 846 | 965 | 965 | | |
| L | 754 | 814 | 814 | 861 | 933 | 981 | 1063 | 1153 | 1153 | | |
| L1 | 866 | 926 | 926 | 1017 | 1089 | 1137 | 1219 | 1338 | 1338 | | |

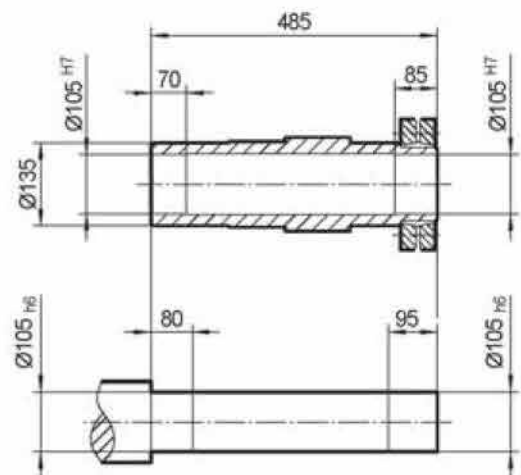
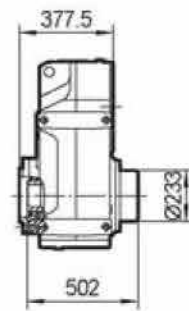
TFZ128..



TFAZ128..

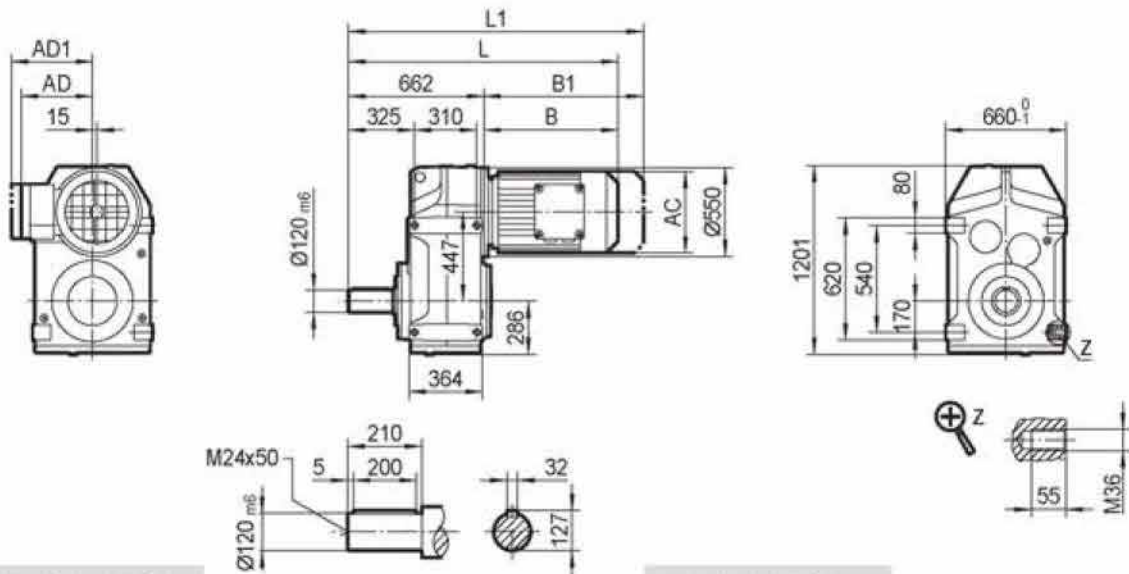


TFHZ128..

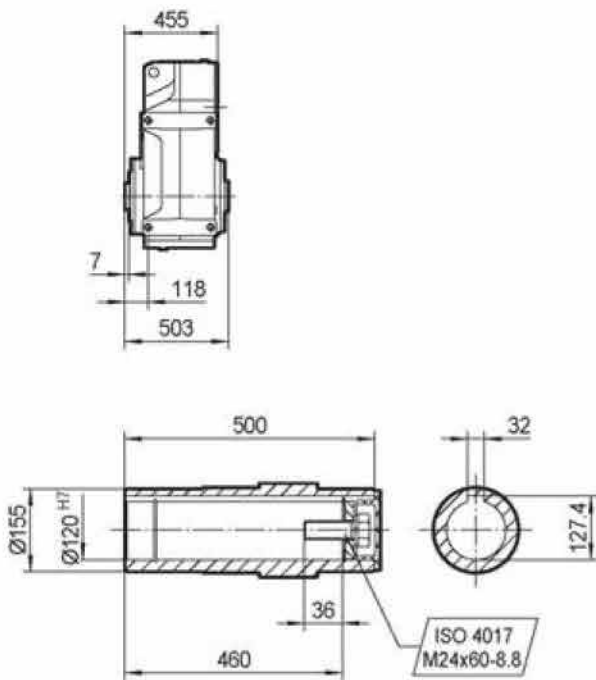


| | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | | |
|------------|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|
| AC | 275 | 275 | 275 | 331 | 331 | 394 | 394 | 510 | 510 | | |
| AD | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| AD1 | 230 | 230 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | | |
| B | 381 | 441 | 441 | 488 | 560 | 608 | 690 | 780 | 780 | | |
| B1 | 493 | 553 | 553 | 644 | 716 | 764 | 846 | 965 | 965 | | |
| L | 759 | 819 | 819 | 866 | 938 | 986 | 1068 | 1158 | 1158 | | |
| L1 | 871 | 931 | 931 | 1022 | 1094 | 1142 | 1224 | 1342 | 1342 | | |

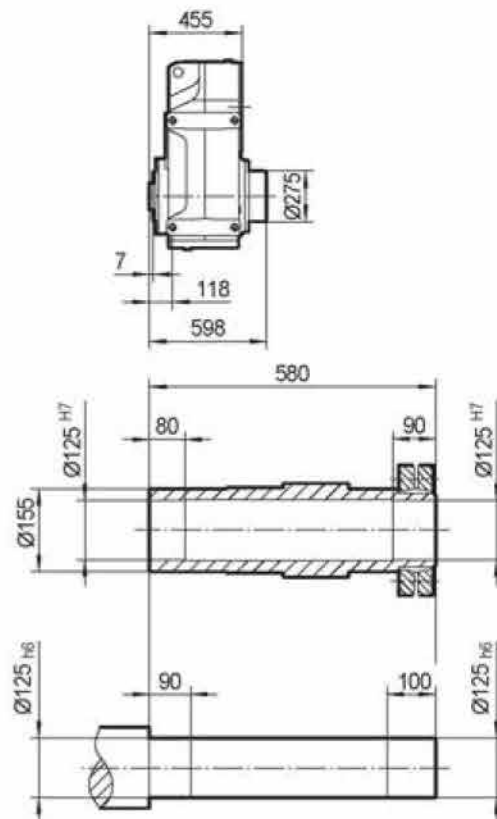
TF158..



TFA158B..

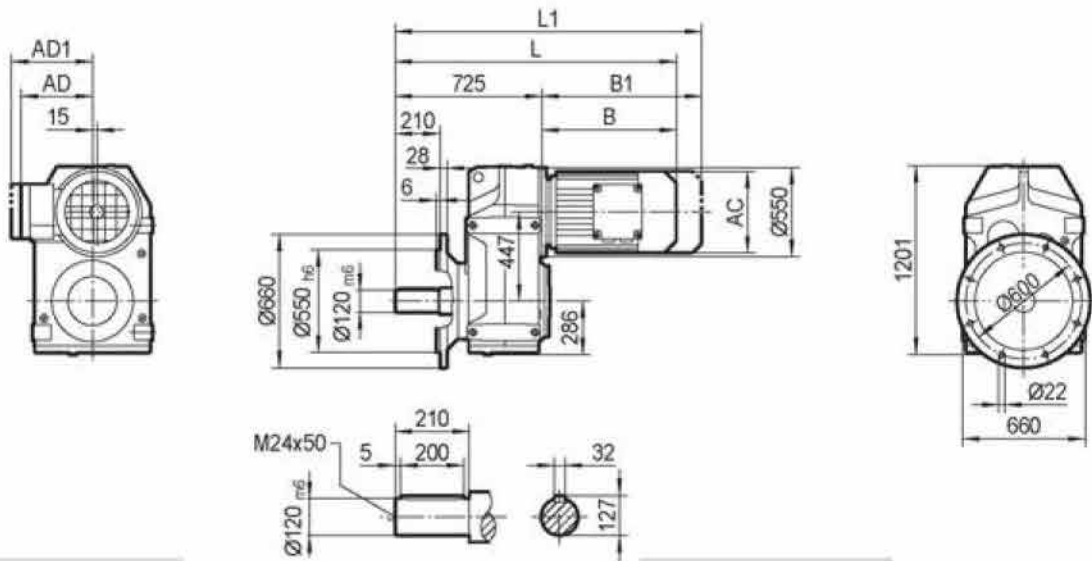


TFH158B..

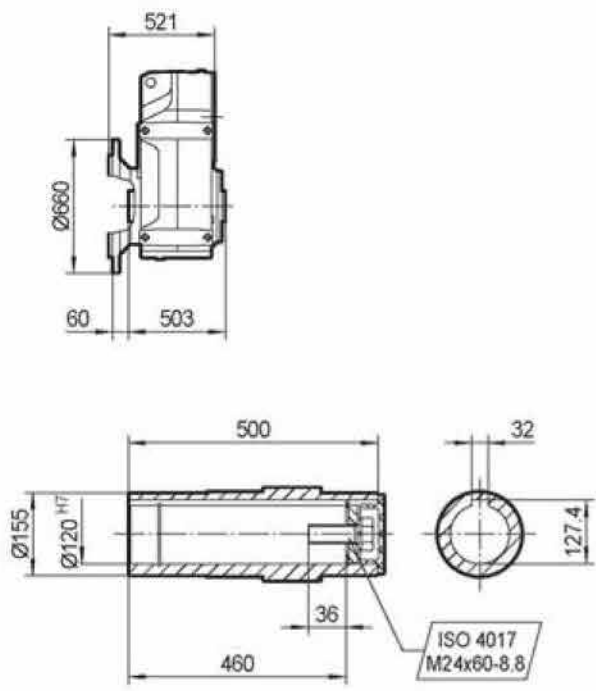


| | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | MY315S | MY315M | | |
|-----|--------|--------|---------|---------|---------|--------|---------|--------|--------|--|--|
| AC | 275 | 331 | 331 | 394 | 394 | 510 | 510 | 612 | 612 | | |
| AD | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| AD1 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| B | 433 | 480 | 552 | 600 | 682 | 771 | 771 | 999 | 1050 | | |
| B1 | 545 | 636 | 708 | 756 | 838 | 956 | 956 | 1210 | 1261 | | |
| L | 1095 | 1142 | 1214 | 1262 | 1344 | 1433 | 1433 | 1661 | 1712 | | |
| L1 | 1207 | 1298 | 1370 | 1418 | 1500 | 1618 | 1618 | 1872 | 1923 | | |

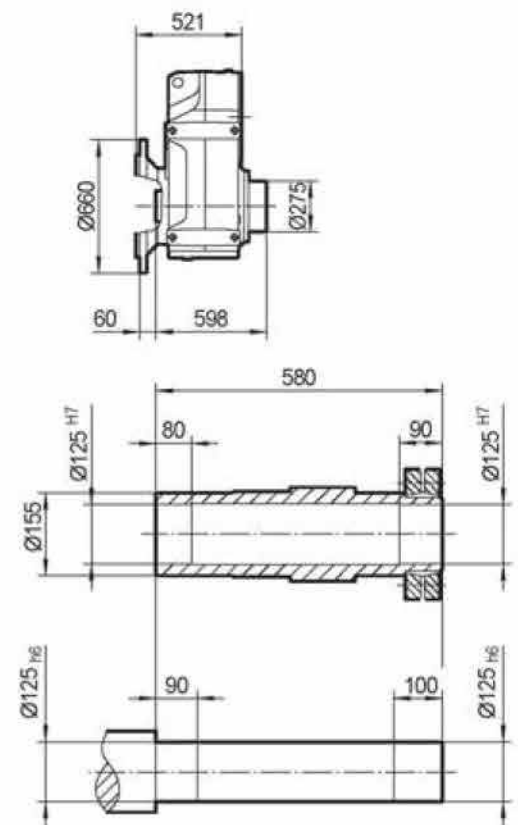
TFF158..



TFAF158..

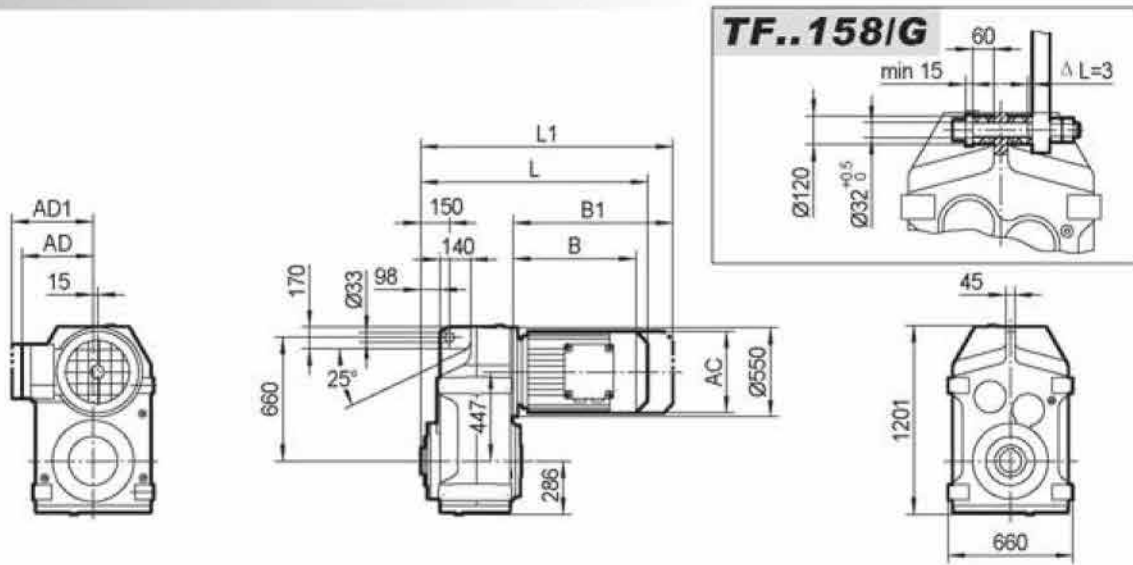


TFHF158..

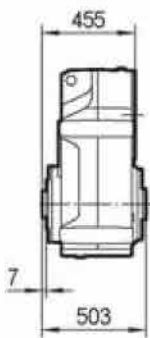


| | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | MY315S | MY315M | | |
|-----|--------|--------|---------|---------|---------|--------|---------|--------|--------|--|--|
| AC | 275 | 331 | 331 | 394 | 394 | 510 | 510 | 612 | 612 | | |
| AD | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| AD1 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| B | 433 | 480 | 552 | 600 | 682 | 771 | 771 | 999 | 1050 | | |
| B1 | 545 | 636 | 708 | 756 | 838 | 956 | 956 | 1210 | 1261 | | |
| L | 1158 | 1205 | 1277 | 1325 | 1407 | 1496 | 1496 | 1724 | 1775 | | |
| L1 | 1270 | 1361 | 1433 | 1481 | 1563 | 1681 | 1681 | 1935 | 1986 | | |

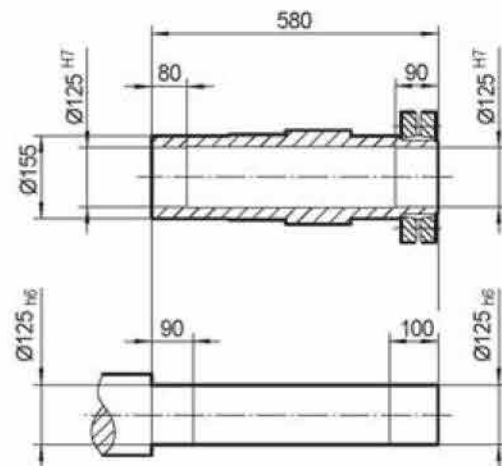
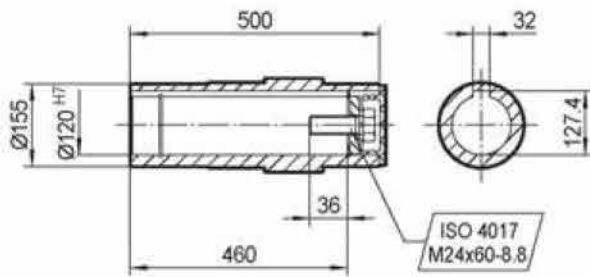
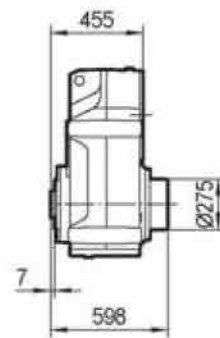
TFA158..



TFA158..

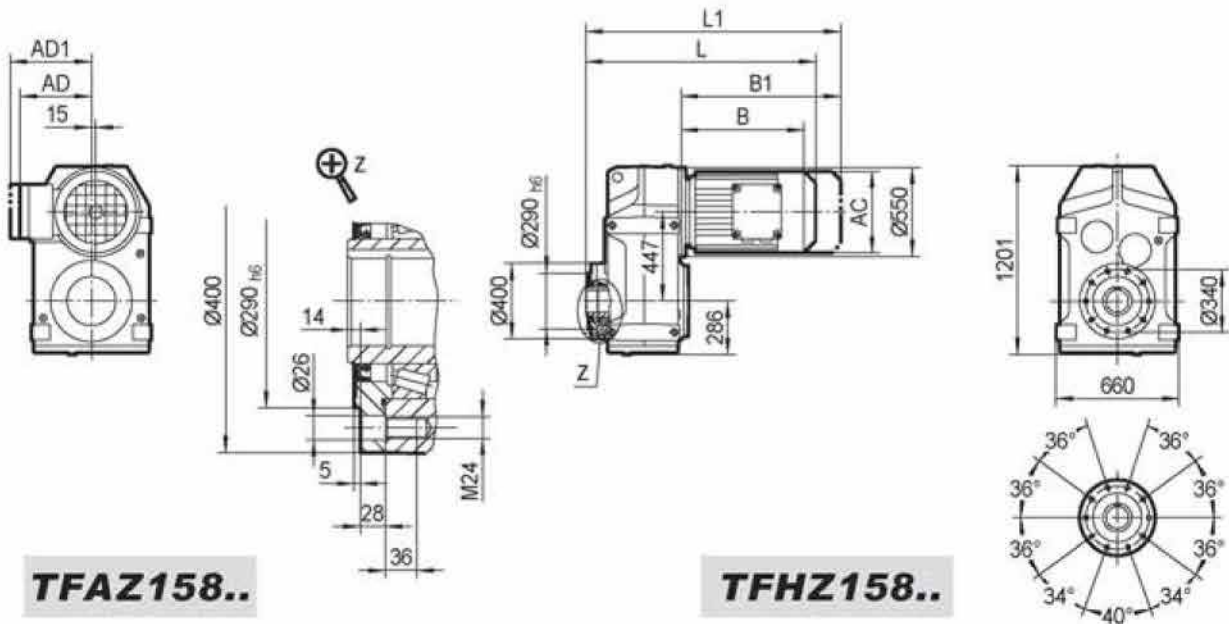


TFH158..



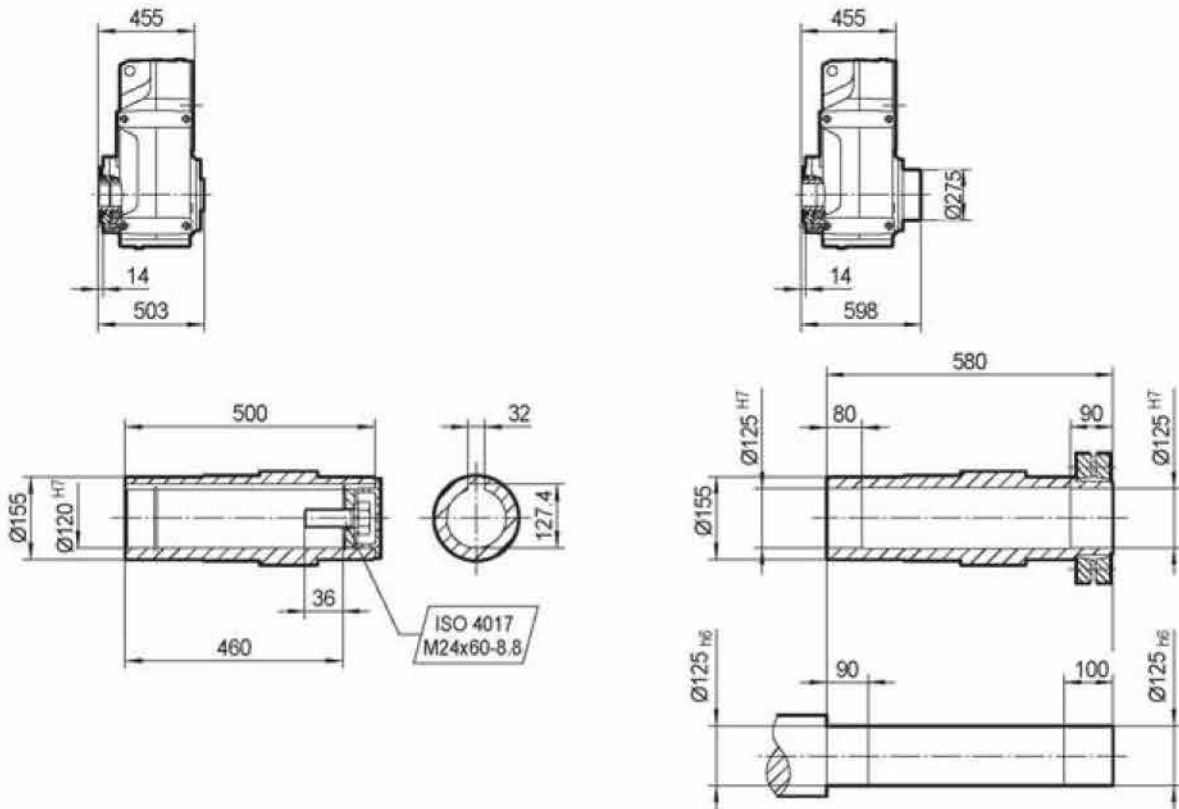
| | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | MY315S | MY315M | | |
|-----|--------|--------|---------|---------|---------|--------|---------|--------|--------|--|--|
| AC | 275 | 331 | 331 | 394 | 394 | 510 | 510 | 612 | 612 | | |
| AD | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| AD1 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| B | 433 | 480 | 552 | 600 | 682 | 771 | 771 | 999 | 1050 | | |
| B1 | 545 | 636 | 708 | 756 | 838 | 956 | 956 | 1210 | 1261 | | |
| L | 888 | 935 | 1007 | 1055 | 1137 | 1226 | 1226 | 1454 | 1505 | | |
| L1 | 1000 | 1091 | 1163 | 1211 | 1293 | 1411 | 1411 | 1665 | 1716 | | |

TFAZ158..



TFAZ158..

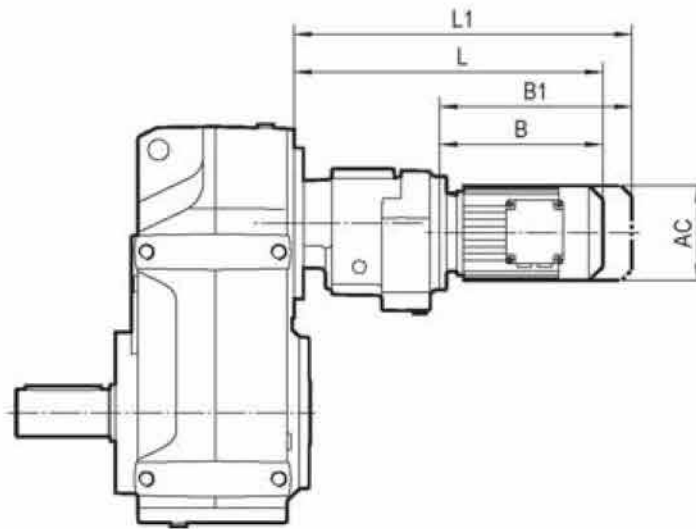
TFHZ158..



| | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | MY315S | MY315M | | |
|------------|--------|--------|---------|---------|---------|--------|---------|--------|--------|--|--|
| AC | 275 | 331 | 331 | 394 | 394 | 510 | 510 | 612 | 612 | | |
| AD | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| AD1 | 230 | 258 | 258 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| B | 433 | 480 | 552 | 600 | 682 | 771 | 771 | 999 | 1050 | | |
| B1 | 545 | 636 | 708 | 756 | 838 | 956 | 956 | 1210 | 1261 | | |
| L | 888 | 935 | 1007 | 1055 | 1137 | 1226 | 1226 | 1454 | 1505 | | |
| L1 | 1000 | 1091 | 1163 | 1211 | 1293 | 1411 | 1411 | 1665 | 1716 | | |

7.2 TF../TRF Outline Dimension

TF../TRF..



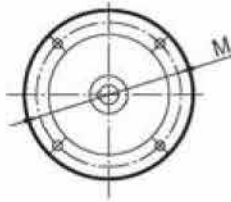
| TF../TRF.. | MY.. | AC | B | B1 | L | L1 |
|---------------|---------|-----|-----|-----|-----|-----|
| TF..28/TRF18 | MY63.. | 132 | 149 | 204 | 324 | 379 |
| TF..38/TRF18 | MY71D | 145 | 164 | 228 | 339 | 403 |
| TF..48/TRF18 | MY80.. | 145 | 214 | 278 | 389 | 453 |
| TF..58/TRF38 | MY63.. | 132 | 191 | 246 | 356 | 411 |
| | MY71D | 145 | 206 | 270 | 371 | 435 |
| | MY80.. | 145 | 256 | 320 | 421 | 485 |
| TF..68/TRF38 | MY63.. | 132 | 191 | 246 | 356 | 411 |
| | MY71D | 145 | 206 | 270 | 371 | 435 |
| | MY80.. | 145 | 256 | 320 | 421 | 485 |
| | MY90.. | 197 | 276 | 361 | 441 | 526 |
| TF..78/TRF38 | MY63.. | 132 | 191 | 246 | 348 | 403 |
| | MY71D | 145 | 206 | 270 | 363 | 427 |
| | MY80.. | 145 | 256 | 320 | 413 | 477 |
| TF..88/TRF58 | MY90.. | 197 | 276 | 361 | 433 | 518 |
| | MY63.. | 132 | 185 | 240 | 401 | 456 |
| | MY71D | 145 | 199 | 263 | 415 | 479 |
| | MY80.. | 145 | 249 | 313 | 465 | 529 |
| TF..98/TRF58 | MY90.. | 197 | 269 | 354 | 485 | 570 |
| | MY100M | 197 | 319 | 404 | 535 | 620 |
| | MY100L | 197 | 349 | 434 | 565 | 650 |
| | MY63.. | 132 | 185 | 240 | 396 | 451 |
| | MY71D | 145 | 199 | 263 | 410 | 474 |
| TF..108/TRF58 | MY80.. | 145 | 249 | 313 | 460 | 524 |
| | MY90.. | 197 | 269 | 354 | 480 | 565 |
| | MY100M | 197 | 319 | 404 | 530 | 615 |
| | MY100L | 197 | 349 | 434 | 560 | 645 |
| | MY112M | 221 | 354 | 434 | 565 | 645 |
| TF..108/TRF78 | MY63.. | 132 | 179 | 234 | 426 | 481 |
| | MY71D | 145 | 193 | 257 | 440 | 504 |
| | MY80.. | 145 | 243 | 307 | 490 | 554 |
| | MY90.. | 197 | 261 | 346 | 508 | 593 |
| | MY100M | 197 | 311 | 396 | 558 | 643 |
| | MY100L | 197 | 341 | 426 | 588 | 673 |
| | MY112M | 221 | 345 | 425 | 592 | 672 |
| | MY132S | 221 | 390 | 470 | 637 | 717 |
| | MY132M | 275 | 412 | 524 | 659 | 771 |
| | MY132ML | 275 | 472 | 584 | 719 | 831 |
| MY160M | 275 | 472 | 584 | 719 | 831 | |

| TF../TRF.. | MY.. | AC | B | B1 | L | L1 |
|---------------|---------|-----|-----|-----|------|------|
| TF..128/TRF78 | MY63.. | 132 | 179 | 234 | 411 | 466 |
| | MY71D | 145 | 193 | 257 | 425 | 489 |
| | MY80.. | 145 | 243 | 307 | 475 | 539 |
| | MY90.. | 197 | 261 | 346 | 493 | 578 |
| | MY100M | 197 | 311 | 396 | 543 | 628 |
| | MY100L | 197 | 341 | 426 | 573 | 658 |
| | MY112M | 221 | 345 | 425 | 577 | 657 |
| | MY132S | 221 | 390 | 470 | 622 | 702 |
| | MY132M | 275 | 412 | 524 | 644 | 756 |
| | MY132ML | 275 | 472 | 584 | 704 | 816 |
| TF..128/TRF88 | MY160M | 275 | 472 | 584 | 704 | 816 |
| | MY90.. | 197 | 257 | 342 | 537 | 622 |
| | MY100M | 197 | 307 | 392 | 587 | 672 |
| | MY100L | 197 | 337 | 422 | 617 | 702 |
| | MY112M | 221 | 340 | 420 | 620 | 700 |
| | MY132S | 221 | 385 | 465 | 665 | 745 |
| | MY132M | 275 | 407 | 519 | 687 | 799 |
| | MY132ML | 275 | 467 | 579 | 747 | 859 |
| | MY160M | 275 | 467 | 579 | 747 | 859 |
| | MY160L | 331 | 514 | 670 | 794 | 950 |
| TF..158/TRF98 | MY180.. | 331 | 586 | 742 | 866 | 1022 |
| | MY80.. | 145 | 231 | 295 | 556 | 620 |
| | MY90.. | 197 | 251 | 336 | 576 | 661 |
| | MY100M | 197 | 301 | 386 | 626 | 711 |
| | MY100L | 197 | 331 | 416 | 656 | 741 |
| | MY112M | 221 | 335 | 415 | 660 | 740 |
| | MY132S | 221 | 380 | 460 | 705 | 785 |
| | MY132M | 275 | 402 | 514 | 727 | 839 |
| | MY132ML | 275 | 462 | 574 | 787 | 899 |
| | MY160M | 275 | 462 | 574 | 787 | 899 |
| MY160L | 331 | 509 | 665 | 834 | 990 | |
| MY180.. | 331 | 581 | 737 | 906 | 1062 | |
| MY200.. | 394 | 629 | 785 | 954 | 1110 | |

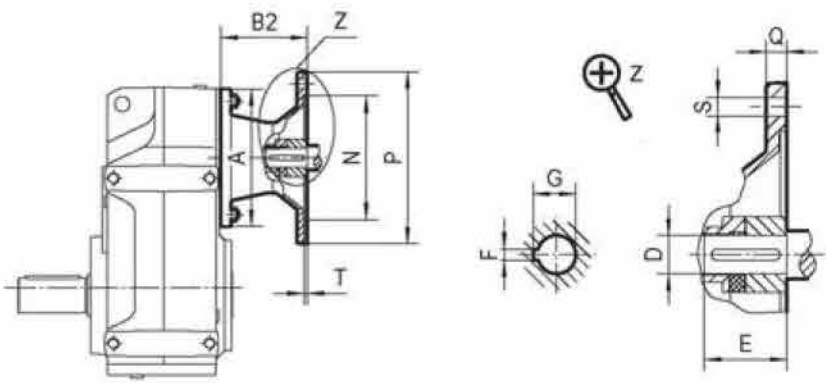
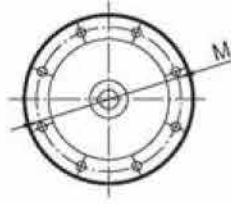
7.3 TF..AM(IEC).. Outline Dimension

TF..AM(IEC)..

Flange.1



Flange.2

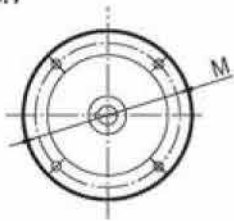


| TF.. | AM.. | Flange. | A | B2 | D | E | F | G | M | N | P | Q | S | T | | | |
|----------------------------|------------------------|---------|-----|-----|----|-----|----|------|-----|-----|-----|----|-------|-----|-----|---------|-----|
| TF..28 TF..38 TF..48 | AM63 | 1 | 120 | 72 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Ø9 | 3.5 | | | |
| | AM71 ¹⁾ | | | | 14 | 30 | 5 | 16.3 | | | | | | | 130 | 110 | 160 |
| | AM80 ¹⁾ | | | 106 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | | | | 12 | 4-Ø11 | 4.5 |
| | AM90 ¹⁾ | | | | 24 | 50 | 8 | 27.3 | | | | | | | | | |
| TF..58 TF..68 | AM63 | 1 | 160 | 66 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Ø9 | 3.5 | | | |
| | AM71 | | | | 14 | 30 | 5 | 16.3 | | | | | | | 130 | 110 | 160 |
| | AM80 | | | 99 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | | | | 12 | 4-Ø11 | 4.5 |
| | AM90 | | | | 24 | 50 | 8 | 27.3 | | | | | | | | | |
| | AM100 ¹⁾ | | | 134 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | | | | 15 | 4-Ø13.5 | 5 |
| | AM112 ¹⁾ | | | | | | | | | | | | | | | | |
| | AM132S/M ¹⁾ | | | | | | | | | | | | | | | | |
| TF..78 | AM63 | 1 | 200 | 60 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Ø9 | 3.5 | | | |
| | AM71 | | | | 14 | 30 | 5 | 16.3 | | | | | | | 130 | 110 | 160 |
| | AM80 | | | 92 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | | | | 12 | 4-Ø11 | 4.5 |
| | AM90 | | | | 24 | 50 | 8 | 27.3 | | | | | | | | | |
| | AM100 ¹⁾ | | | 126 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | | | | 15 | 4-Ø13.5 | 5 |
| | AM112 ¹⁾ | | | | | | | | | | | | | | | | |
| | AM132S/M ¹⁾ | | | | | | | | | | | | | | | | |
| | AM132ML ¹⁾ | | | 179 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | | | | 16 | | |
| TF..88 | AM80 | 1 | 250 | 87 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Ø11 | 4.5 | | | |
| | AM90 | | | | 24 | 50 | 8 | 27.3 | | | | | | | | | |
| | AM100 | | | 121 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | | | | 15 | 4-Ø13.5 | 5 |
| | AM112 | | | | | | | | | | | | | | | | |
| | AM132S/M | | | | | | | | | | | | | | | | |
| | AM132ML | | | 174 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | | | | 16 | | |
| | AM160 ¹⁾ | | | 232 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | | | | 18 | 4-Ø17.5 | 6 |
| | AM180 ¹⁾ | | | | 48 | | 14 | 51.8 | | | | | | | | | |

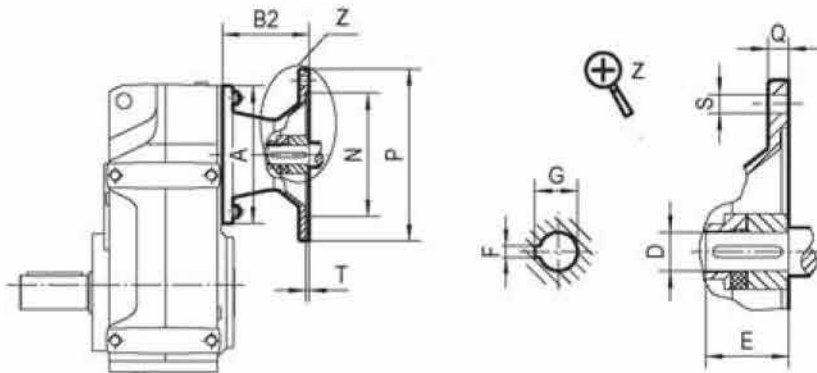
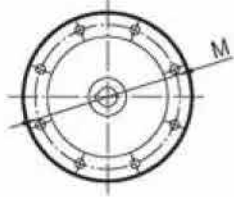
1) Dimension P/2 may protrude past foot mounting surface, please check.

TF..AM(IEC)..

Flange.1



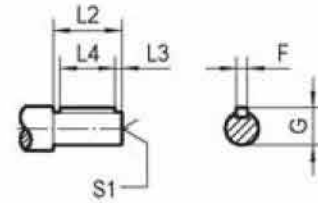
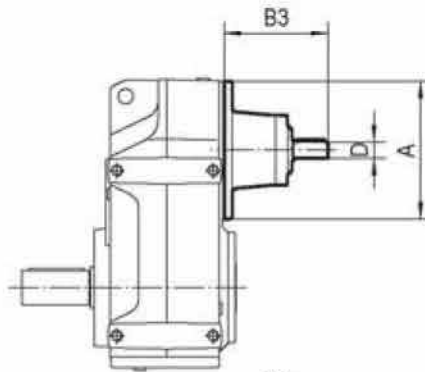
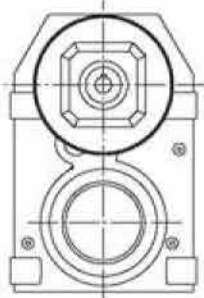
Flange.2



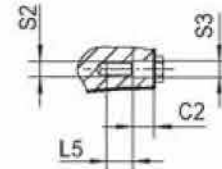
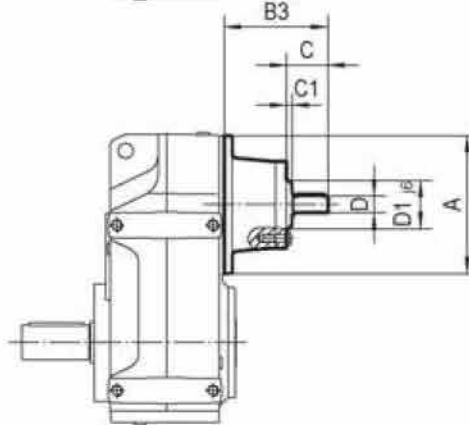
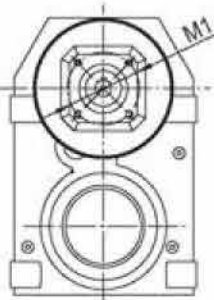
| TF.. | AM.. | Flange. | A | B2 | D | E | F | G | M | N | P | Q | S | T | | |
|---------|----------|---------|-----|-----|------|------|-----|------|-----|---------|---------|-----|---------|----|---------|---|
| TF..98 | AM100 | 1 | 300 | 116 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Ø13.5 | 5 | | |
| | AM112 | | | | | | | | | | | | | | | |
| | AM132S/M | | | | | | | | | | | | | | | |
| | AM132ML | | | 110 | 42 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Ø17.5 | 6 | | |
| | AM160 | | | | | | | | | | | | | | | |
| | AM180 | | | | | | | | | | | | | | | |
| | AM200 | | | | | | | | | | | | | | | |
| TF..108 | AM100 | 1 | 350 | 110 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Ø13.5 | 5 | | |
| | AM112 | | | | | | | | | | | | | | | |
| | AM132S/M | | | | | | | | | | | | | | | |
| | AM132ML | | | 110 | 42 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Ø17.5 | 6 | | |
| | AM160 | | | | | | | | | | | | | | | |
| | AM180 | | | | | | | | | | | | | | | |
| | AM200 | | | | | | | | | | | | | | | |
| | AM225 | 2 | 140 | 60 | 18 | 64.4 | 400 | 350 | 450 | 22 | 8-Ø17.5 | 7 | | | | |
| AM250 | | | | | | | | | | | | | | | | |
| TF..128 | AM132S/M | 1 | 450 | 148 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Ø13.5 | 5 | | |
| | AM132ML | | | | | | | | | | | | | | | |
| | AM160 | | | | | | | | | | | | | | | |
| | AM180 | | | 110 | 42 | 80 | 10 | 41.3 | 265 | 230 | 300 | 250 | 350 | 18 | 4-Ø17.5 | 6 |
| | AM200 | | | | | | | | | | | | | | | |
| | AM225 | | | | | | | | | | | | | | | |
| | AM250 | | | | | | | | | | | | | | | |
| AM280 | 2 | 140 | 65 | 18 | 69.4 | 500 | 450 | 550 | 25 | 8-Ø17.5 | 7 | | | | | |
| AM280 | | | | | | | | | | | | | | | | |
| TF..158 | AM160 | 1 | 550 | 198 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | 4-Ø17.5 | 6 | | |
| | AM180 | | | | | | | | | | | | | | | |
| | AM200 | | | | | | | | | | | | | | | |
| | AM225 | 2 | | 60 | 18 | 64.4 | 400 | 350 | 450 | 22 | 8-Ø17.5 | 7 | | | | |
| | AM250 | | | | | | | | | | | | | | | |
| | AM280 | | | | | | | | | | | | | | | |

7.4 TF..AD.. Outline Dimension

TF..AD..



TF..AD../ZR

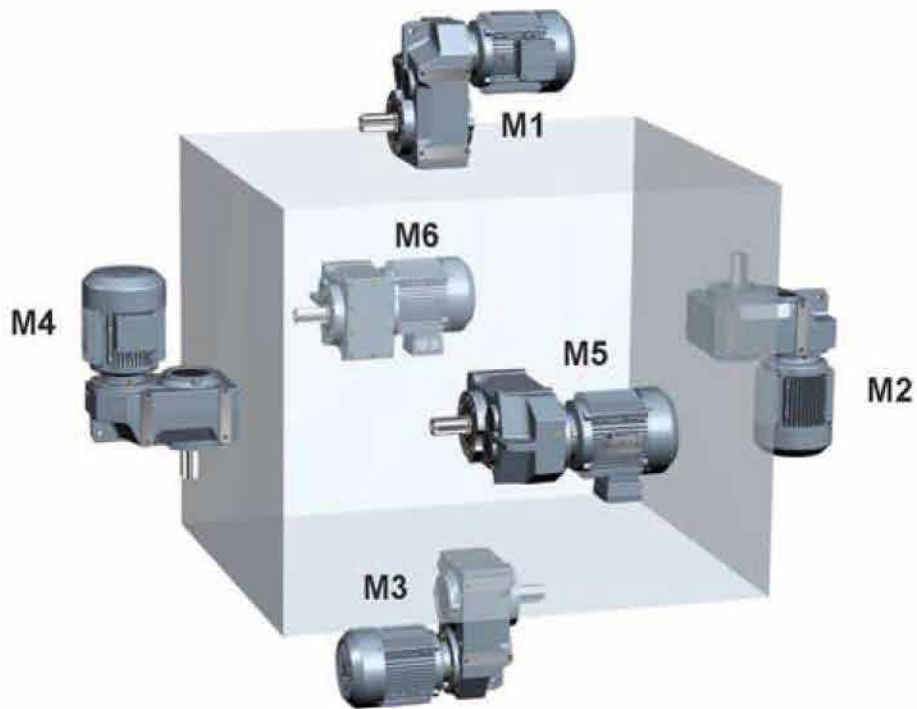


| TF.. | AD.. | A | B3 | C | C1 | C2 | D | D1 | F | G | L2 | L3 | L4 | L5 | M1 | S1 | S2 | S3 |
|---------|-------------|-----|-----|-------|----|------|----|-----|----|------|-----|----|-----|------|-----|---------|-----|------|
| TF..28 | AD1 | 120 | 102 | - | - | - | 16 | - | 5 | 18 | 40 | 4 | 32 | - | - | M5X12.5 | - | - |
| TF..38 | AD2, AD2/ZR | | 130 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| TF..48 | | | 159 | 60 | 8 | 15.5 | 24 | 70 | 8 | 27 | 50 | 5 | 40 | 16 | 105 | M8X19 | M10 | 11 |
| TF..58 | AD2, AD2/ZR | 160 | 123 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| TF..68 | AD3, AD3/ZR | | 159 | 60 | 8 | 15.5 | 24 | 70 | 8 | 27 | 50 | 5 | 40 | 16 | 105 | M8X19 | M10 | 11 |
| TF..78 | AD2, AD2/ZR | 200 | 116 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| | AD3, AD3/ZR | | 151 | 60 | 8 | 15.5 | 24 | 70 | 8 | 27 | 50 | 5 | 40 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4, AD4/ZR | | 224 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| TF..88 | AD2, AD2/ZR | 250 | 111 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| | AD3, AD3/ZR | | 156 | 70 | 8 | 15.5 | 28 | 70 | 8 | 31 | 60 | 5 | 50 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4, AD4/ZR | | 219 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5, AD5/ZR | | 292 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| TF..98 | AD3, AD3/ZR | 300 | 151 | 70 | 8 | 15.5 | 28 | 70 | 8 | 31 | 60 | 5 | 50 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4, AD4/ZR | | 214 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5, AD5/ZR | | 287 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6, AD6/ZR | | 327 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| TF..108 | AD3, AD3/ZR | 350 | 145 | 70 | 8 | 15.5 | 28 | 70 | 8 | 31 | 60 | 5 | 50 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4, AD4/ZR | | 208 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5, AD5/ZR | | 281 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6, AD6/ZR | | 321 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| TF..128 | AD4, AD4/ZR | 450 | 193 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5, AD5/ZR | | 266 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6, AD6/ZR | | 306 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| | AD7, AD7/ZR | | 300 | 133 | 13 | 19 | 55 | 125 | 16 | 59 | 110 | 10 | 90 | 30 | 190 | M20X42 | M20 | 22 |
| | AD8, AD8/ZR | | 383 | 155 | 5 | 22.5 | 70 | 120 | 20 | 74.5 | 140 | 15 | 110 | 19.5 | 210 | M20X42 | M12 | 13.5 |
| TF..158 | AD5, AD5/ZR | 550 | 258 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6, AD6/ZR | | 298 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| | AD7, AD7/ZR | | 292 | 133 | 13 | 19 | 55 | 125 | 16 | 59 | 110 | 10 | 90 | 30 | 190 | M20X42 | M20 | 22 |
| | AD8, AD8/ZR | | 374 | 155 | 5 | 22.5 | 70 | 120 | 20 | 74.5 | 140 | 15 | 110 | 19.5 | 210 | M20X42 | M12 | 13.5 |

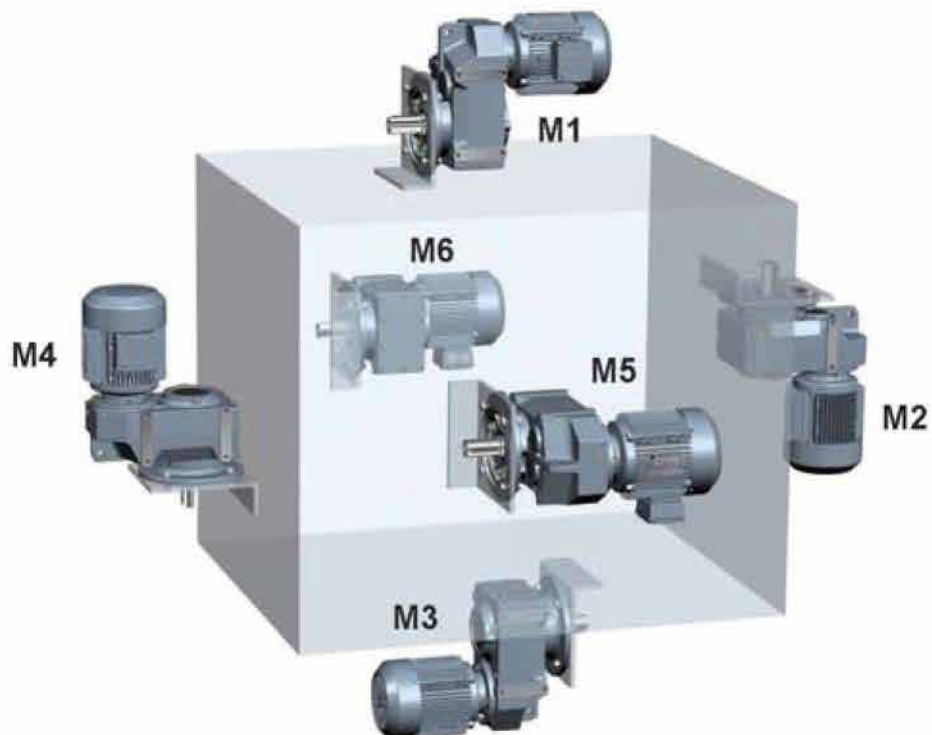
8. MOUNTING POSITIONS

8.1 Mounting position designation

Differentiates between six mounting positions M1 ... M6 for gear units. The following figure shows the spatial orientation of the gearmotor in mounting positions M1 ... M6.



TF..

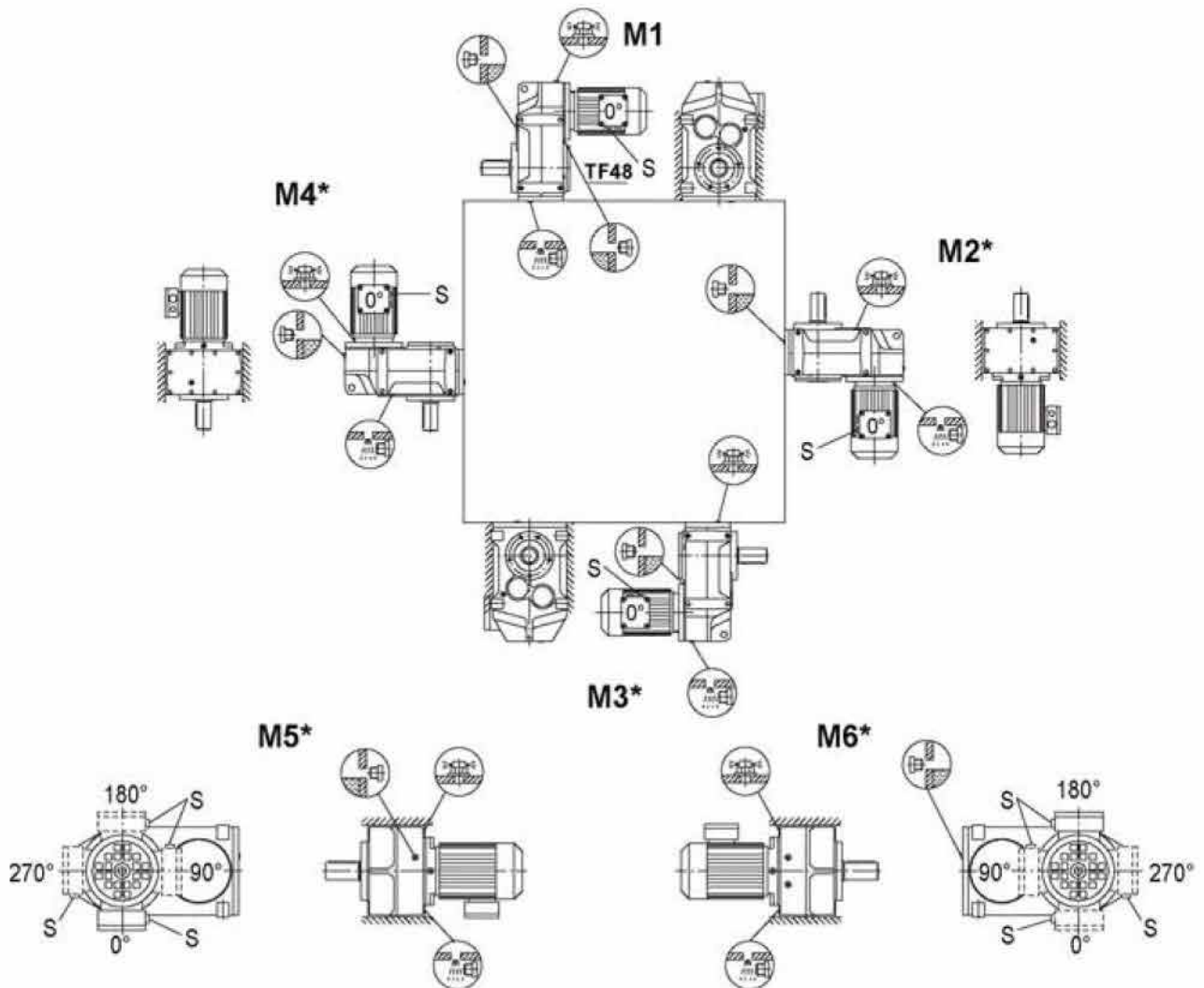
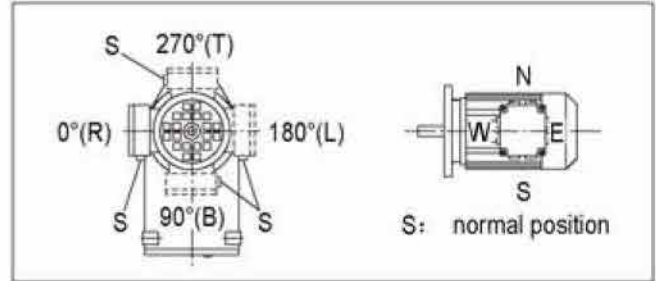


MOUNTING POSITIONS

8.2. Mounting positions for parallel shaft helical gearmotors

TF/TFA..B/TFH28B-158B,TFV28B-108B

| Symbol | Meaning |
|--------|----------------|
| | Breather valve |
| | Oil level plug |
| | Oil drain plug |






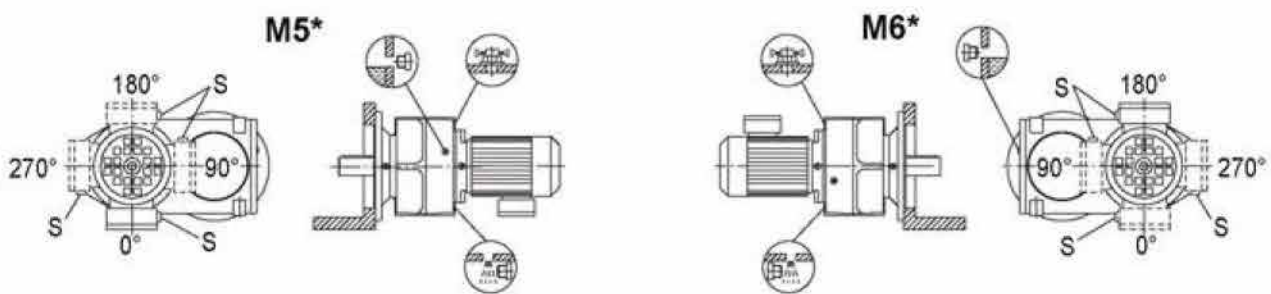
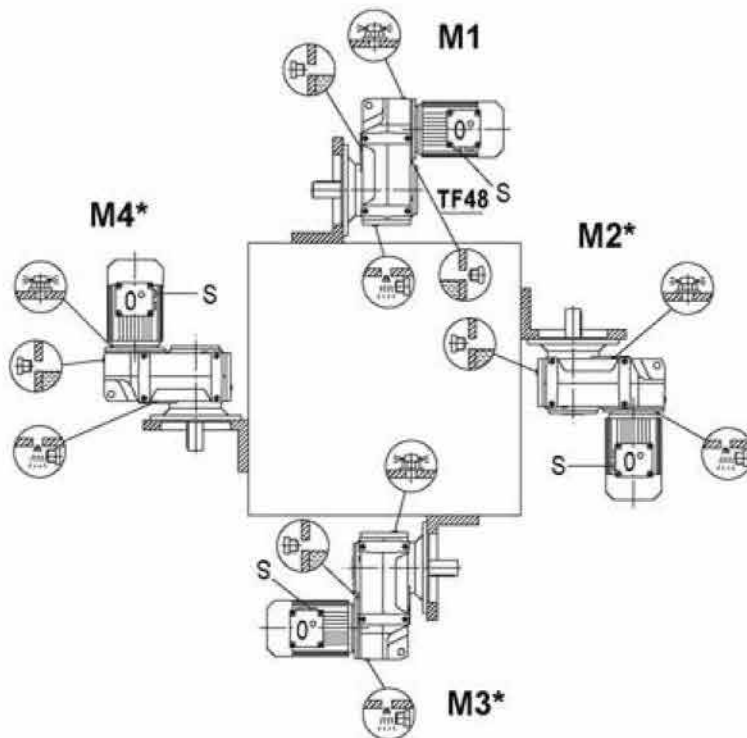
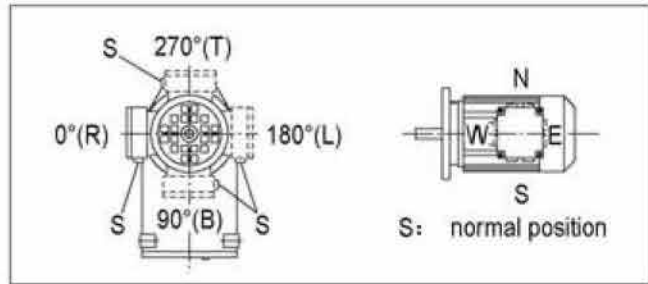
| Mounting position | Gear unit size | Input speed [r/min] |
|---------------------|----------------|---------------------|
| M2*,M3*,M4*,M5*,M6* | 98...108 | >2500 |
| | >108 | >1500 |

- TF28 M1, M3, M5, M6
- TF28 M1-M6
- TF28 M1, M3, M5, M6




Increased churning losses may arise in some mounting positions. Contact us in case of the above-mentioned combinations.

TFF/TFAF/TFHF/TFAZ/TFHZ28-158,TFVF/TFVZ28-108

| Symbol | Meaning |
|---|----------------|
|  | Breather valve |
|  | Oil level plug |
|  | Oil drain plug |



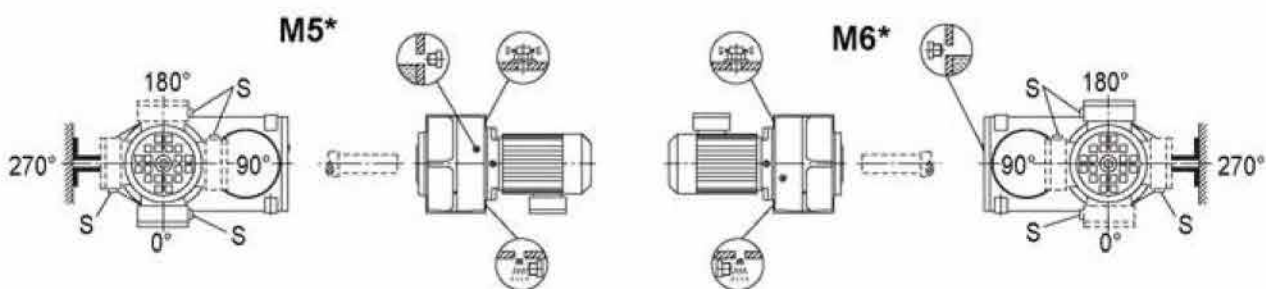
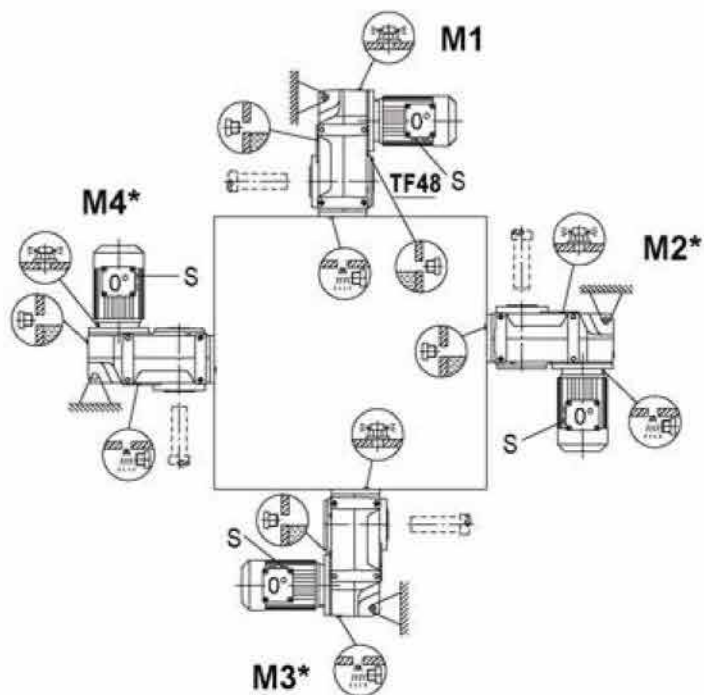
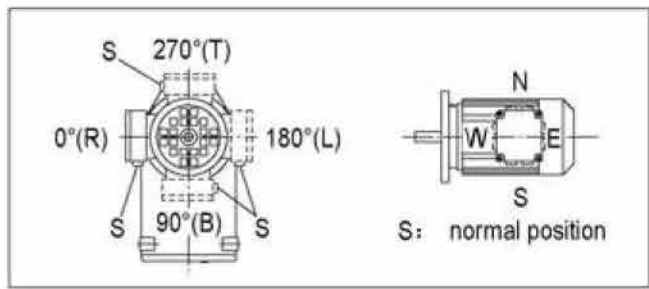
| Mounting position | Gear unit size | Input speed [r/min] |
|---------------------|----------------|---------------------|
| M2*,M3*,M4*,M5*,M6* | 98...108 | >2500 |
| | >108 | >1500 |

| | | |
|------|---|----------------|
| TF28 |  | M1, M3, M5, M6 |
| TF28 |  | M1-M6 |
| TF28 |  | M1, M3, M5, M6 |

Increased churning losses may arise in some mounting positions. Contact us in case of the above-mentioned combinations.

TFA/TFH28-158,TFV28-108

| Symbol | Meaning |
|--------|----------------|
| | Breather valve |
| | Oil level plug |
| | Oil drain plug |



| Mounting position | Gear unit size | Input speed [r/min] |
|---------------------|----------------|---------------------|
| M2*,M3*,M4*,M5*,M6* | 98...108 | >2500 |
| | >108 | >1500 |

- TF28 M1, M3, M5, M6
- TF28 M1-M6
- TF28 M1, M3, M5, M6

Increased churning losses may arise in some mounting positions. Contact us in case of the above-mentioned combinations.

8.3 Direction of rotation

If the drive has a backstop RS, it is also necessary to stipulate the direction of rotation of the drive. The following definition applies, looking onto the output shaft:

Clockwise(CW)=Rotating clockwise

Counterclockwise(CW)=Rotating clockwise



9. INSTALLATION METHODS

9.1. Preparation before the installation:

- a). Check if the data on the nameplates of the gearmotor matches the voltage supply system.
- b). Check if the drive has not been damaged during transportation and storage.
- c). For standard gear unit, the ambient temperature must be in accordance with the corresponding lubricant table.
- d). The drive must not be assembled in conditions such as oil, gas, vapors, acids, radiation and so on.
- e). Output shaft and flange surfaces must thoroughly cleaned to ensure they are free of anti-corrosion agents, contamination or similar. Use a commercially available solvent. Do not let the solvent come into contact with the sealing lip of the oil seals, or will damage the material!
- f). The supporting structure must have the following characteristics: level, vibration damping and torsionally rigid.
- g). So as to prevent the tolerance of fit of gear units from damaging, the parts assembled on the gear units must be worked as specified tolerance according to **ISOH7**.

9.2. the installation of the gear units:

- a). Do not tighten the housing legs and mounting flanges against one another and ensure that you comply with the permitted radial load and axial load.
- b). Never drive belt pulleys, couplings, pinions, etc. onto the shaft end by hitting them with a hammer. This will damage the bearing, housing and the shaft.
- c). When installing the **IEC** couplings, remove the key from the motor shaft and replace it with the supplied key. Secure key and coupling half using grub screw and tighten to the motor shaft. Seal the contact surface between the adapter and motor using a suitable sealing compound.
- d). Prior to startup, check that if the oil level is as specified for the mounting position, if the oil checking and drain screw and the breather valves are free accessible.

10. LUBRICATION

10.1 Types of lubrication

| | | | | | | lubrication type |
|-------------|--------------------------|-------------------|--------------------|------------------|----------------------|------------------|
| TF.. | Standard -10 +40 | VG 220 | Shell Omala 220 | Mobilgear 630 | BP Energol GR-XP 220 | Mineral oil |
| | -20 +25 | VG 150 VG 100 | Shell Omala 100 | Mobilgear 627 | BP Energol GR-XP 100 | |
| | -30 +10 | VG 68-46 VG 32 | Shell Tellus T 32 | Mobil D.T.E. 13M | | |
| | -40 -20 | VG 22 VG 15 | Shell Tellus T 15 | Mobil D.T.E. 11M | BP Energol HLP-HM 15 | |
| | -40 +80 | VG 220 | Shell Omala HD 220 | Mobil SHC 630 | | Synthetic oil |
| | -40 +40 | VG 150 | | Mobil SHC 629 | | |
| | -40 +10 | VG 32 | | Mobil SHC 624 | | |

10.2 Lubricant fill quantity

The specified fill quantities are recommended values. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capacity. The following tables show guide values for lubricant fill quantities in relation to the mounting position M1 ~ M6.

TF.., TFA..B, TFH..B, TFV..B:

| Gear units | Fill quantity in liters (L) | | | | | |
|------------|-----------------------------|------|------|------|------|------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| TF..28 | 0.60 | 0.80 | 0.70 | 0.70 | 0.60 | 0.60 |
| TF..38 | 0.95 | 1.25 | 0.70 | 1.25 | 1.00 | 1.10 |
| TF..48 | 1.50 | 1.80 | 1.10 | 1.90 | 1.50 | 1.70 |
| TF..58 | 2.6 | 3.5 | 2.1 | 3.5 | 2.8 | 2.9 |
| TF..68 | 2.7 | 3.8 | 1.90 | 3.8 | 2.9 | 3.2 |
| TF..78 | 5.9 | 7.3 | 4.3 | 8.0 | 6.0 | 6.3 |
| TF..88 | 10.8 | 13.0 | 7.7 | 13.8 | 10.8 | 11.0 |
| TF..98 | 18.5 | 22.5 | 12.6 | 25.2 | 18.5 | 20.0 |
| TF..108 | 24.5 | 32.0 | 19.5 | 37.5 | 27.0 | 27.0 |
| TF..128 | 40.5 | 55 | 34.0 | 61 | 46.5 | 47.0 |
| TF..158 | 69 | 104 | 63 | 105 | 86 | 78 |

TFF...:

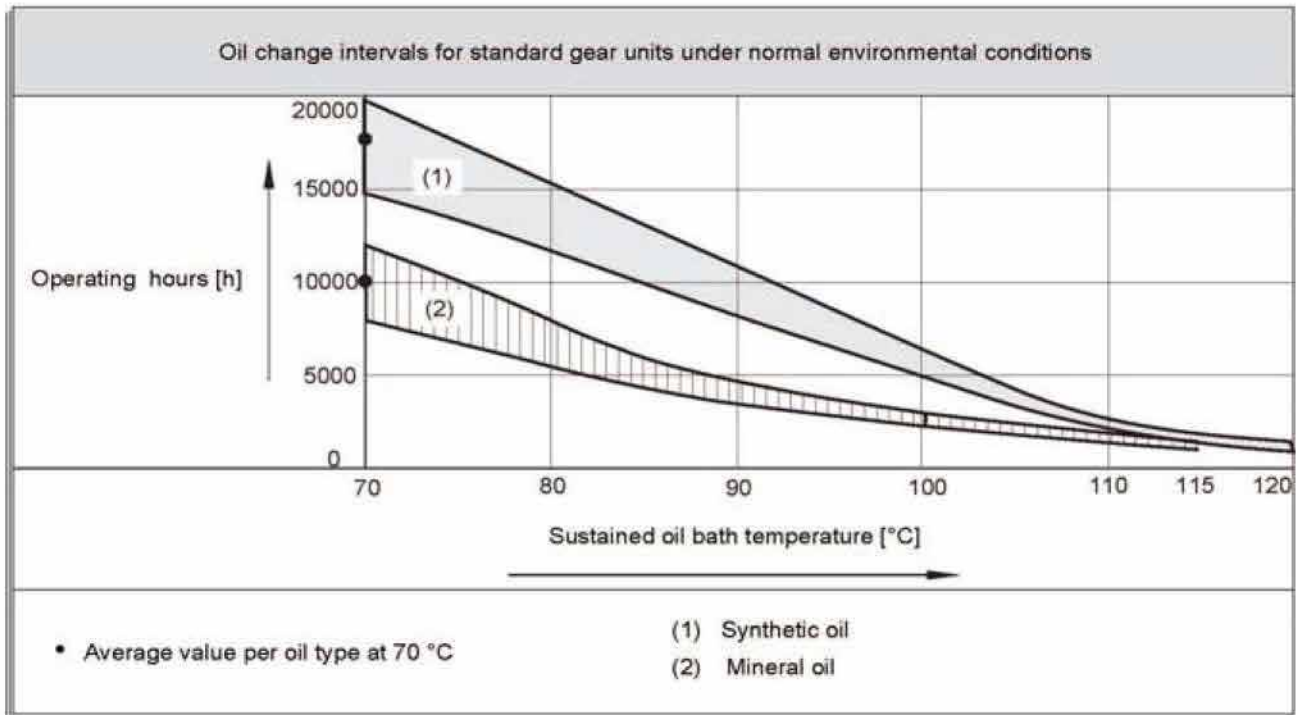
| Gear units | Fill quantity in liters (L) | | | | | |
|------------|-----------------------------|------|------|------|------|------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| TFF28 | 0.60 | 0.80 | 0.70 | 0.70 | 0.60 | 0.60 |
| TFF38 | 1.00 | 1.25 | 0.70 | 1.30 | 1.00 | 1.10 |
| TFF48 | 1.60 | 1.85 | 1.10 | 1.90 | 1.50 | 1.70 |
| TFF58 | 2.8 | 3.5 | 2.1 | 3.7 | 2.9 | 3.0 |
| TFF68 | 2.7 | 3.8 | 1.90 | 3.8 | 2.9 | 3.2 |
| TFF78 | 5.9 | 7.3 | 4.3 | 8.1 | 6.0 | 6.3 |
| TFF88 | 10.8 | 13.2 | 7.8 | 14.1 | 11.0 | 11.2 |
| TFF98 | 19.0 | 22.5 | 12.6 | 25.5 | 18.9 | 20.5 |
| TFF108 | 25.5 | 32.0 | 19.5 | 38.5 | 27.5 | 28.0 |
| TFF128 | 41.5 | 56 | 34.0 | 63 | 46.5 | 49.0 |
| TFF158 | 72 | 105 | 64 | 106 | 87 | 79 |

TFA...,TFH...,TFV...,TFAF...,TFHF...,TFVF...,TFAZ...,TFHZ...,TFVZ...:

| Gear units | Fill quantity in liters (L) | | | | | |
|------------|-----------------------------|------|------|------|------|------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| TF..28 | 0.60 | 0.80 | 0.70 | 0.70 | 0.60 | 0.60 |
| TF..38 | 0.95 | 1.25 | 0.70 | 1.25 | 1.00 | 1.10 |
| TF..48 | 1.50 | 1.80 | 1.10 | 1.90 | 1.50 | 1.70 |
| TF..58 | 2.7 | 3.5 | 2.1 | 3.4 | 2.9 | 3.0 |
| TF..68 | 2.7 | 3.8 | 1.90 | 3.8 | 2.9 | 3.2 |
| TF..78 | 5.9 | 7.3 | 4.3 | 8.0 | 6.0 | 6.3 |
| TF..88 | 10.8 | 13.0 | 7.7 | 13.8 | 10.8 | 11.0 |
| TF..98 | 18.5 | 22.5 | 12.6 | 25.0 | 18.5 | 20.0 |
| TF..108 | 24.5 | 32.0 | 19.5 | 37.5 | 27.0 | 27.0 |
| TF..128 | 39.0 | 55 | 34.0 | 61 | 45.0 | 46.5 |
| TF..158 | 68 | 103 | 62 | 104 | 85 | 77 |

11. MAINTENANCE

- 1). Gear units **TF28** have lubricants for life and are therefore maintenance-free.
- 2). For other type gear units, first oil change should be after about 300 hours (run-in period). The right lotion is required to clean the gear units with care. Never mix the synthetic oil and mineral oil together.
- 3). Every 3000 working time, at least every 6 months, you have to check the oil and oil level, the seals visually for leakage. For IEC input gear units, the elastomer should be tested or replaced if necessary.
- 4). Depending on the operating conditions (see chart below), every 3 years at the latest for inspection is needed. Then change the mineral oil and replace the bearing grease.
- 5). Depending on the operating conditions, change the oil seals on output shaft.
- 6). Once the malfunctions appear, stop disassembling the parts, and firstly please contact the customer service (the information about specification, delivery date, series number, time used, name of machine, machine manufacturer, malfunction problems is required) , then take the reasonable measures.



12. STORAGE

- 1). Under roof, protected against rain and snow, no shock loads.
- 2). Underlay the block and other material between the ground and equipment.
- 3). The opened but not used gear units should be added with the anti-corrosive oil on its surface, and then return to the packing containers timely.
- 4). Two years or more given regular inspections. Check for cleanliness and mechanical damage as part of the inspection, Check corrosion protection.

13. NOTICE FOR ORDER

Please offer the following information when place the orders:

- 1). the model mark of the gear units (type, ratio, power and mounting position).
- 2). gear units are available with "blue/gray" painting optionally. Unless specified, it offers the blue painting as standard.
- 3). quantity ordered.
- 4). other special requirements.
- 5). company, contact and telephone.

14. MALFUNCTIONS

14.1 Gear unit malfunctions

| Problem | Possible cause | Remedy |
|--|--|--|
| Unusual, regular running noise | A. Meshing/grinding noise: Bearing damage. B. Knocking noise: Irregularity in the gearing | A. Check the oil, change bearings B. Contact customer service |
| Unusual, irregular running noise | Foreign bodies in the oil | <ul style="list-style-type: none"> • Check the oil • Stop the drive, contact customer service |
| Oil leaking ¹⁾ <ul style="list-style-type: none"> • From the gear cover plate • From the motor flange • From the motor oil seal • From the gear unit flange • From the output end oil seal | A. Rubber seal on the gear cover plate leaking B. Seal defective C. Gear unit not vented | A. Tighten the bolts on the gear cover plate and observe the gear unit. Oil still leaking: Contact customer service B. Contact customer service C. Vent the gear unit (see "Mounting Positions") |
| Oil leaking from breaking valve | A. Too much oil B. Drive operated in incorrect mounting position C. Frequent cold starts (oil foams) and/or high oil level | A. Correct the oil level (see Sec. "Inspection and Maintenance") B. Mount the breather valve correctly (see Sec. "Mounting Positions") and correct the oil level (see "Lubricants") |
| Output shaft does not turn although the motor is running or the input shaft is rotated | Connection between shaft and hub in gear unit interrupted | Send in the gear unit/gearmotor for repair |

1) Short-term oil/grease leakage at the oil seal is possible in the run-in phase (24 hours running time).

14.2 IEC couplings malfunctions

| Problem | Possible cause | Remedy |
|--|---|--|
| Unusual, regular running noise | Meshing/grinding noise: Bearing damage | Contact our company customer service |
| Oil leaking | Seal defective | Contact our company customer service |
| Output shaft does not turn although the motor is running or the input shaft is rotated | Connection between shaft and hub in gear unit interrupted | Send the gear unit to our company for repair. |
| Change in running noise and / or vibrations occur | A. Annular gear wear, short-term torque transfer through metal contact B. Bolts to secure hub axially are loose. | A. Change the annular gear B. Tighten the bolts |
| Premature wear in annular gear | A. Contact with aggressive fluids / oil; ozone influence; too high ambient temperatures etc, which can cause a change in the physical properties of the annular gear. B. Impermissibly high ambient/contact temperature for the annular gear; maximum permitted temperature -20 °C to +80 °C. C. Overload | Contact our company customer service |

15. Charge Characteristic Chart (for reference)

| | | | |
|-------------------------------|---|------------------------------------|---|
| AIR BLOWERS | | Hoist gear assembly | A |
| Air blower(axial or radial) | A | Derrick gear assembly | B |
| Fan of cooling tower | B | Steering gear assembly | B |
| Induced draught fan | B | Moving gear assembly | C |
| Rotary piston type fan | B | LAND DREDGER | |
| Turbo-fan | A | Drum-type coveyer | C |
| CONSTRUCTION MACHINERY | | Drum-type rotation wheel | C |
| Concrete mixer | B | Dredger head | C |
| Hoist | B | Powered crab | B |
| Road building machinery | B | Pump | B |
| Boring mill | B | Pump turning gear assembly | B |
| CHEMICAL MACHINERY | | Moving gear assembly (apron wheel) | C |
| Mixer (liquid) | A | Moving gear assembly (track) | B |
| Mixer (half liquid) | B | FOODSTUFF PROCESSING MACHINERY | |
| Centrifuge (heavy) | B | Placer or box filler | A |
| Centrifuge(light) | A | Cane crusher | A |
| ** Cooling rolling drum | B | ** Cane cutter | B |
| ** Dry rolling drum | B | ** Cane crasher | C |
| Mixer | B | Mixer | B |
| COMPRESSOR | | Paste bucket | B |
| Piston type compressor | C | Packager | A |
| Turbo-compressor | B | Beet slicer | B |
| TRANSMISSION FREIGHTER | | Beet washing machine | B |
| Pan conveyer | B | MOTOR AND CONVERSION EQUIPMENTS | |
| Balance lifter | B | Frequency converter | C |
| Trough conveyer | B | Motor | C |
| Ribbon conveyer (large piece) | C | Welding motor | C |
| Ribbon coveyer (small piece) | B | WASHING MACHINE | |
| Drum-type flour conveyer | A | Rolling drum | B |
| Chain conveyer | B | Washing machine | B |
| Ring type conveyer | B | METAL ROLLER MACHINE | |
| Lifter | B | ** Steel cutter | C |
| Hoist | B | ** Chain conveyer | B |
| Crank-connecting conveyer | B | ** Cold mill | C |
| Lifter | B | Continuous casting equipments | B |
| Worm conveyer | B | ** Cold bed | B |
| Steel-band conveyer | B | ** Cropper | C |
| Chain reed-type conveyer | B | ** Cross steering transmitter | B |
| Crab freighter | B | ** Deruster | C |
| HOIST | | ** Heavy and medium steel mill | C |
| Bracket swing gear assembly | B | ** Bar mill | C |

| BAR TRANSMISSION EQUIPMENTS | B | PUMPS | |
|---|---|--|---|
| Bar pusher | B | Centrifugal pump (thin liquid) | A |
| Push bed | B | Centrifugal pump (half liquid) | B |
| ** Shears | C | Displacement pump | C |
| ** Lumber elevator platform | B | Plunger pump | C |
| ROLL ADJUSTING EQUIPMENTS | B | Force pump | C |
| Roller leveling machine | B | PLASTIC EQUIPMENTS | |
| ** Mill rolling way (heavy) | C | ** Glazing press | B |
| ** Mill rolling way (light) | B | ** Ejecting press | B |
| ** Sheet rolling mill | C | ** Spiral extruding machine | B |
| ** Trimming shears | B | ** Mixing machine | B |
| Pipe welder | C | RUBBER EQUIPMENT | |
| Soldering machine(belt material and wire rod) | B | ** Glazing press | B |
| Wire drawbench | B | ** Ejecting press | C |
| METAL PROCESSING MACHINE TOOLS | | ** Mixing stir machine | B |
| Power shaft | A | Kneading machine | B |
| ** Forging machine | C | ** Roller machine | C |
| Drop hammer | C | STONE PORCELAIN CLAY PROCESSING EQUIPMENTS | |
| Machine tool and necessary | A | | |
| Machine tool and main driving equipment | B | Ball crusher | B |
| Metal facing machine | C | ** Ejecting press and breaker | C |
| Plate-leveling machine tool | C | Breaker | C |
| Backing-out punch | C | Brick press | C |
| Press machine tool | C | ** Beating crusher | C |
| Cutting machine | B | ** Converter | C |
| Sheet bending machine tool | B | ** Cylinder mill | C |
| PETROLEUM PROCESSING MACHINERY | | TEXTILE MACHINERY | |
| ** Pump of oil pipe line | B | Feeding machine | B |
| Rotary drilling equipment | C | Loom machine | B |
| PAPERING MACHINE | | Dyeing machine | B |
| ** Glazing press | C | Purified drum | B |
| ** Multilayer paper board machine | C | Welon machine | B |
| ** Drying cylinder | C | WASTER TREATMENT EQUIPMENTS | |
| ** Glazing cylinder | C | ** Air blast | B |
| ** Masher | C | Screw pump | B |
| ** Mashing and breaking machine | C | WOOD PROCESSING MACHINE TOOL | |
| ** Suction roll | C | Barker | C |
| ** Wet paper roller machine | C | Facing machine | B |
| ** Water absorbing roller machine | C | Saw bench | C |
| Welon machine | C | Wood processing machine tool | A |

Note: A - Uniform load; B - Moderate shock load; C - Heavy shock load; ** - for 24hour system.

SHOW THE SERIES PRODUCTS

TR Series helical geared motors



TS Series helical-worm geared motors

TK Series helical-bevel geared motors



TF Series parallel shaft helical geared motors

G3 Series mini helical geared motors



TRC Series mini helical gear units



MHR Series worm gear units

UVL Series stepless speed variator

