

TF Shaft Mount Gear Motor

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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..



TFE..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..**



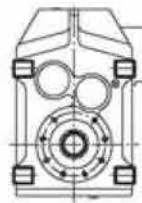
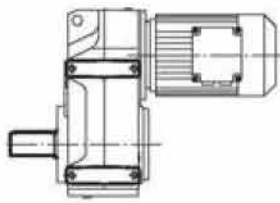
TFHZ..MY..



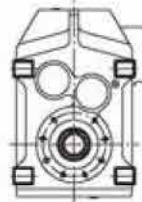
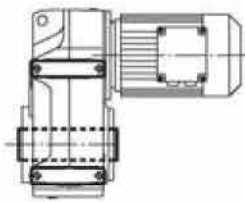
TF..AM(IEC)..



TF..AD..

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

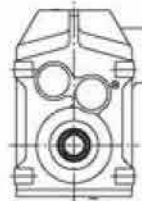
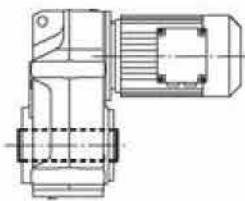
Foot-mounted parallel shaft helical geared motor

**TFA..B MY..**

Foot-mounted parallel shaft helical geared motor with hollow shaft

TFV..B MY..

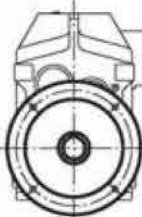
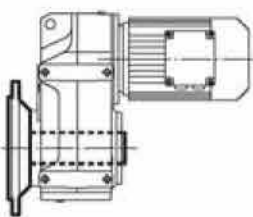
Foot-mounted parallel shaft helical geared motor with splined hollow shaft to DIN 5480

**TFA..MY..**

parallel shaft helical geared motor with hollow shaft

TFV..MY..

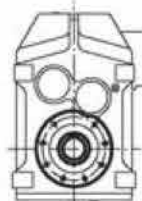
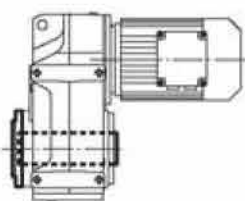
parallel shaft helical geared motor with splined hollow shaft to DIN 5480

**TFAF..MY..**

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

TFVF..MY..

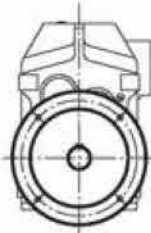
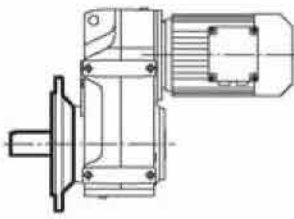
parallel shaft helical geared motor in B5 flange-mounted version with splined hollow shaft to DIN 5480

**TFAZ..MY..**

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

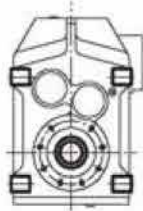
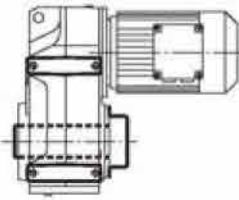
TFVZ..MY..

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



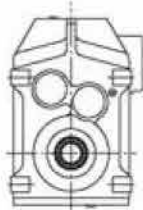
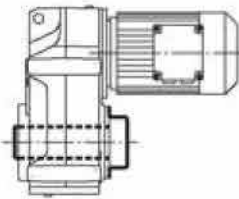
TFF..MY..

parallel shaft helical geared motor in B5 flange-mounted version



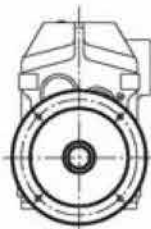
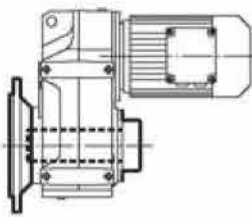
TFH..B MY..

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



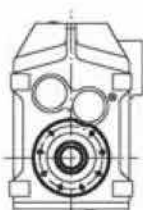
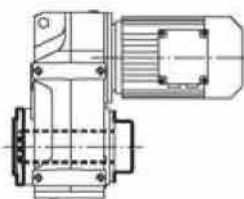
TFH..MY..

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°

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

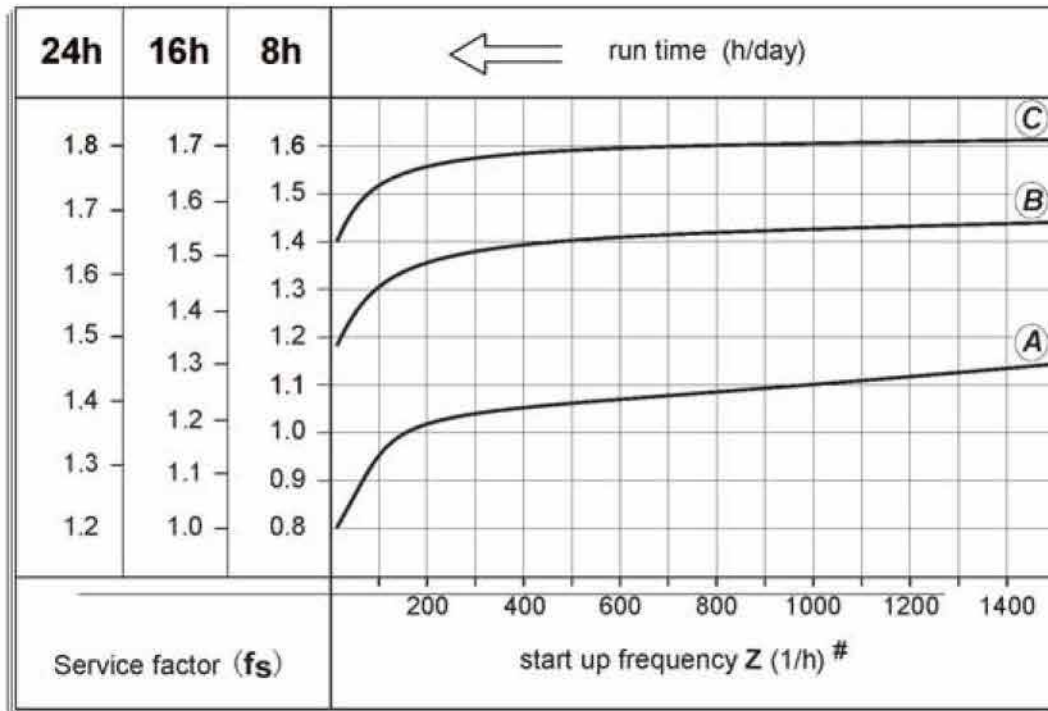
$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

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

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 $M_{2 \max}$.

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

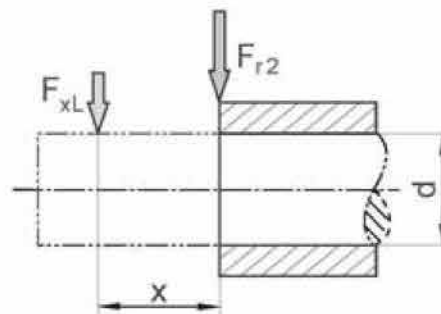
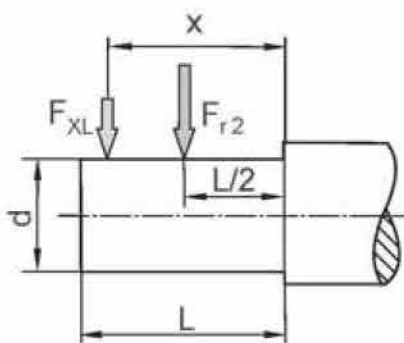
$$F_{xW} = F_{r2} \cdot \frac{c}{f+x} \text{ [N]}$$

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]

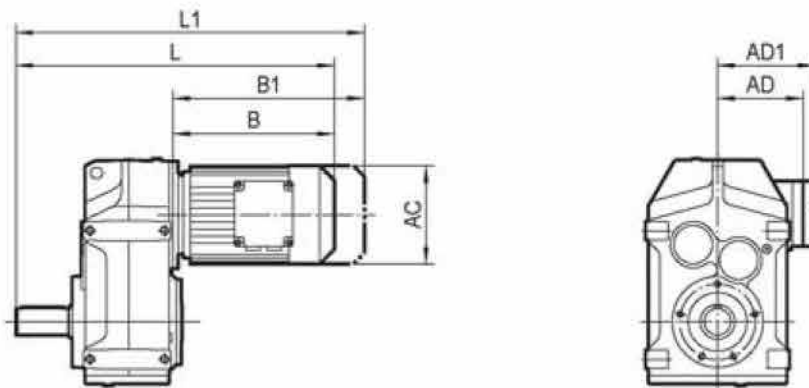
c Gear unit constant for overhung load conversion [Nmm]



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_{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)
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_{2max} [Nm]	Fr_2 [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 / MY132L 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_{r2} [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_{r2} [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]	F_{r2} [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]	F_{r2} [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]	Fr_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


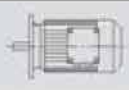
TF..158/TRF98 $n_1=1400$ r/min



18000Nm


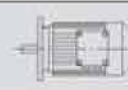
n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M MY160L	MY180	MY200
3Stage / 3Stage											
0.04	18000	100300	31434								
0.05	18000	100300	26173								
0.06	18000	100300	23464								
0.07	18000	100300	20212								
0.08	18000	100300	17984								
0.09	18000	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								


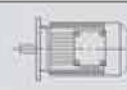
6.2 TF..MY.. Performance parameter


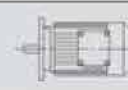
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.12	0.06	13900	22323	86700	0.85	TFA 128 / TRF78	MY 63S4	133
	0.07	11900	19048	90000	1.00	TFAF 128 / TRF78	MY 63S4	133
	0.08	10400	16656	90000	1.15	TF 128 / TRF78	MY 63S4	133
	0.09	9180	14722	90000	1.30	TFF 128 / TRF78	MY 63S4	133
	0.11	8000	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			


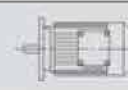
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.12	4.5	255	199.70	11400	2.4	TFA 58	MY 63M6	103
	4.9	235	183.60	11500	2.6	TFAF 58	MY 63M6	102
	5.7	200	157.09	11500	3.0	TF 58	MY 63M6	101
	6.6	173	136.16	11500	3.5	TFF 58	MY 63M6	102
	7.1	162	127.27	11500	3.7			
	6.9	166	199.70	11500	3.6	TFA 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				


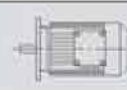
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.12	112	10	12.35	3140	13	TFA 28	MY 63S4	91
	131	8.8	10.55	2990	15	TFAF 28	MY 63S4	90
	140	8.2	9.88	2930	16	TF 28	MY 63S4	89
	147	7.8	9.40	2870	17	TFF 28	MY 63S4	90
	170	6.7	8.13	2740	18			
	200	5.7	6.91	2600	20			
	224	5.1	6.17	2510	21			
	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				


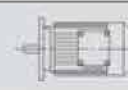
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0.18	1.6	890	810	18700	1.70	TFA 78 / TRF38	MY 63M4	133
	1.9	780	710	19000	1.90	TFAF 78 / TRF38	MY 63M4	133
	2.1	695	615	19300	2.20	TF 78 / TRF38	MY 63M4	133
						TFF 78 / TRF38	MY 63M4	133
	1.5	940	858	8660	0.85	TFA 68 / TRF38	MY 63M4	133
	1.8	830	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	


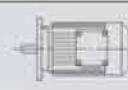
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.18	5.8	300	228.99	13000	2.8	TFA 68	MY 63M4	107
	6.8	255	195.39	13000	3.2	TFAF 68	MY 63M4	106
	7.7	225	170.85	13000	3.7	TF 68	MY 63M4	105
						TFF 68	MY 63M4	106
	4.4	395	199.70	10600	1.50	TFA 58	MY 63L6	103
	4.7	365	183.60	10800	1.65	TFAF 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				


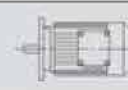
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.18	95	18	13.84	3240	7.2	TFA 28	MY 63M4	91
	107	16	12.35	3140	8.1	TFAF 28	MY 63M4	90
	125	14	10.55	2990	9.5	TF 28	MY 63M4	89
	134	13	9.88	2930	10	TFF 28	MY 63M4	90
	140	12	9.4	2870	11			
	162	11	8.13	2750	12			
	191	9	6.91	2610	13			
	214	8	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					


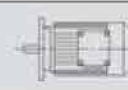
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.25	4.4	540	199.70	9630	1.10	TFA 58	MY 71D6	103
	4.8	500	183.60	9940	1.20	TFAF 58	MY 71D6	102
	5.6	425	157.09	10400	1.40	TF 58	MY 71D6	101
	6.5	370	136.16	10800	1.60	TFF 58	MY 71D6	102
	6.9	345	127.27	10900	1.75			
	8.0	300	110.01	11100	2.0			
	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				


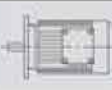
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page	
0.25	132	18	9.88	2900	7.2	TFA 28	MY 63L4	91	
	138	17	9.40	2840	7.5	TFAF 28	MY 63L4	90	
	160	15	8.13	2720	8.3	TF 28	MY 63L4	89	
	188	13	6.91	2590	9.0	TFF 28	MY 63L4	90	
	211	11	6.17	2500	9.7				
	247	9.7	5.27	2380	10				
	264	9.1	4.93	2340	11				
	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				


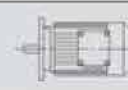
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.37	5.4	585	255	9330	1.05	TFA 58 / TRF38	MY 71D4	133
	6.9	455	201	10200	1.30	TFAF 58 / TRF38	MY 71D4	133
	7.6	415	181	10500	1.45	TF 58 / TRF38	MY 71D4	133
						TFF 58 / TRF38	MY 71D4	133
	5.3	620	262	9070	0.95	TFA 58 / TRF38	MY 71D4	133
	6.1	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


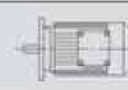
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page	
0.55	0.56	7800	2427	120000	2.3	TFA 158 / TRF98	MY 80K4	133	
	0.81	5530	1674	120000	3.3	TFAF 158 / TRF98	MY 80K4	133	
	1.0	4270	1308	120000	4.2	TF 158 / TRF98	MY 80K4	133	
	1.2	3750	1169	120000	4.8	TFF 158 / TRF98	MY 80K4	133	
	0.35	13400	3926	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				


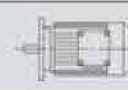
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page	
0.55	35	150	77.21	3420	0.85	TFA 28	MY 71D2	91	
	37	141	72.37	3410	0.90	TFAF 28	MY 71D2	90	
	42	124	63.86	3360	1.05	TF 28	MY 71D2	89	
	48	110	56.62	3310	1.20	TFF 28	MY 71D2	90	
	54	98	50.19	3250	1.35				
	58	90	23.25	3210	1.45	TFA 28	MY 80K4	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	
						TFF 158 / TRF98	MY 80N4	133	
1.2		5210	1169	120000	3.5	TFA 158 / TRF98	MY 80N4	133	
						TFAF 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	
						TFF 128 / TRF78	MY 80N4	133	
0.68		9540	2038	90000	1.25	TFA 128 / TRF78	MY 80N4	133	
						TFAF 128 / TRF78	MY 80N4	133	
0.77		8310	1784	90000	1.45	TF 128 / TRF78	MY 80N4	133	
						TFF 128 / TRF78	MY 80N4	133	
0.86		7450	1606	90000	1.60	TFA 128 / TRF78	MY 80N4	133	
						TFAF 128 / TRF78	MY 80N4	133	
0.76		8470	1826	47600	0.90	TF 108 / TRF78	MY 80N4	133	
						TFF 108 / TRF78	MY 80N4	133	
0.86		7530	1597	50200	1.00	TFA 108 / TRF78	MY 80N4	133	
						TFAF 108 / TRF78	MY 80N4	133	
0.98	6580	1401	52600	1.15	TF 108 / TRF78	MY 80N4	133		
					TFF 108 / TRF78	MY 80N4	133		
1.1	5770	1243	54600	1.35	TFA 108 / TRF78	MY 80N4	133		
					TFAF 108 / TRF78	MY 80N4	133		
1.3	5130	1087	56000	1.50	TF 108 / TRF78	MY 80N4	133		
					TFF 108 / TRF78	MY 80N4	133		
1.4	4410	950	57600	1.75	TFA 108 / TRF78	MY 80N4	133		
					TFAF 108 / TRF78	MY 80N4	133		
1.7	3840	834	58700	2.0	TF 108 / TRF78	MY 80N4	133		
					TFF 108 / TRF78	MY 80N4	133		
2.2	2980	640	60400	2.6	TFA 108 / TRF78	MY 80N4	133		
					TFAF 108 / TRF78	MY 80N4	133		
3.2	2030	436	62100	3.8	TF 108 / TRF78	MY 80N4	133		
					TFF 108 / TRF78	MY 80N4	133		
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	TFA 98 / TRF58	MY 80N4	133		
					TFAF 98 / TRF58	MY 80N4	133		
1.8	3730	784	31500	1.15	TF 98 / TRF58	MY 80N4	133		
					TFF 98 / TRF58	MY 80N4	133		
2.0	3250	690	32700	1.30	TFA 98 / TRF58	MY 80N4	133		
					TFAF 98 / TRF58	MY 80N4	133		



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		


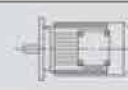
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0.75	13	565	109.04	12100	1.45	TFA 68	MY 80N4	107
	14	500	95.94	12400	1.65	TFAF 68	MY 80N4	106
	15	470	90.59	12500	1.75	TF 68	MY 80N4	105
	17	415	79.76	12800	2.0	TFF 68	MY 80N4	106
	20	350	67.65	13000	2.3			
	23	315	61.07	13000	2.6			
	11	660	127.27	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	


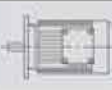
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.75	513	14	5.27	1810	7.1	TFA 28	MY 80K2	91
	547	13	4.93	1770	7.3	TFAF 28	MY 80K2	90
	650	11	4.16	1690	7.9	TF 28	MY 80K2	89
						TFF 28	MY 80K2	90
1.1	0.50	18200	2780	99600	1.00	TFA 158 / TRF98	MY 90S4	133
						TFAF 158 / TRF98	MY 90S4	133
						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	


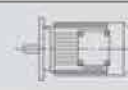
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
1.1	4.7	2250	197.2	25700	1.35	TFA 88	MY 90L6	115
	5.1	2050	179.97	26300	1.45	TFAF 88	MY 90L6	114
	5.8	1820	159.61	27000	1.65	TF 88	MY 90L6	113
						TFF 88	MY 90L6	114
	5.2	2030	270.68	26300	1.50	TFA 88	MY 90S4	115
	5.5	1920	255.37	26700	1.55	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			


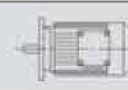
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	3.8	3450	370	59500	2.2	TFAF 108 / TRF78	MY 90L4	133
						TF 108 / TRF78	MY 90L4	133
						TFF 108 / TRF78	MY 90L4	133
	2.7	4960	529	15500	0.85	TFA 98 / TRF58	MY 90L4	133
	3.0	4380	467	29700	1.00	TFAF 98 / TRF58	MY 90L4	133
	3.5	3790	406	31300	1.15	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
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	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				


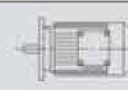
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1.5	344	42	8.13	1810	3.0	TFA 28	MY 90S2	91
	405	35	6.91	1750	3.2	TFAF 28	MY 90S2	90
	454	32	6.17	1710	3.5	TF 28	MY 90S2	89
	532	27	5.27	1660	3.7	TFF 28	MY 90S2	90
	568	25	4.93	1630	3.8			
	674	21	4.16	1570	4.1			
2.2	0.98	18700	1441	98000	0.95	TFA 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	


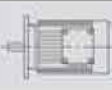
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	5.6	3780	253.41	31400	1.15	TFAF 98	MY 100M4	118
	6.3	3340	223.88	32500	1.30	TF 98	MY 100M4	117
	7.4	2830	189.92	33700	1.50	TFF 98	MY 100M4	118
	8.1	2610	174.87	34200	1.65			
	9.0	2330	156.30	34800	1.85			
	10	2100	140.71	35200	2.1			
	11	1900	127.42	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				


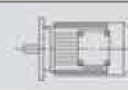
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2.2	55	385	25.72	5560	1.05	TFA 48	MY 100M4	99	
	65	325	21.82	5520	1.25	TFAF 48	MY 100M4	98	
	72	295	19.70	5480	1.35	TF 48	MY 100M4	97	
	81	260	17.33	5410	1.55	TFF 48	MY 100M4	98	
	86	245	16.36	5370	1.65				
	101	210	13.93	5250	1.95				
	111	189	12.66	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]	fs			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				


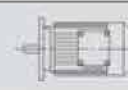
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3.0	56	510	24.96	7440	1.15	TFA 58	MY 100L4	103	
	66	435	21.17	7340	1.40	TFAF 58	MY 100L4	102	
	73	390	19.11	7260	1.55	TF 58	MY 100L4	101	
	83	345	16.81	7140	1.75	TFF 58	MY 100L4	102	
	88	325	15.88	7080	1.85				
	104	275	13.52	6890	2.2				
	114	250	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	


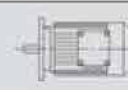
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4.0	105	365	13.52	6340	1.65	TFA 58	MY 112M4	103
	116	330	12.29	6270	1.80	TFAF 58	MY 112M4	102
	133	285	10.64	6150	2.1	TF 58	MY 112M4	101
	153	250	9.31	5850	1.70	TFF 58	MY 112M4	102
	173	220	8.19	5730	1.90			
	184	210	7.73	5680	2.0			
	216	177	6.58	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				


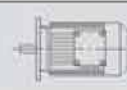
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5.5	11	4680	127.42	27400	0.90	TFA 98	MY 132S4	119
	13	4150	112.99	30300	1.05	TFAF 98	MY 132S4	118
	14	3750	102.16	31400	1.15	TF 98	MY 132S4	117
						TFF 98	MY 132S4	118
	15	3580	97.58	31900	1.20	TFA 98	MY 132S4	119
	16	3300	89.85	32600	1.30	TFAF 98	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				


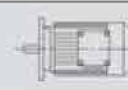
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5.5	85	620	16.81	5450	0.95	TFA 58	MY 132S4	103
	90	585	15.88	5480	1.05	TFAF 58	MY 132S4	102
	106	495	13.52	5530	1.20	TF 58	MY 132S4	101
	116	450	12.29	5530	1.35	TFF 58	MY 132S4	102
	134	390	10.64	5510	1.55			
	175	300	8.19	5190	1.40			
	185	285	7.73	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	


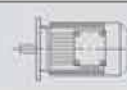
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
7.5	8.0	8950	178.64	46300	0.85	TFA 108	MY 132M4	123
	8.9	8080	161.28*	48700	0.95	TFAF 108	MY 132M4	122
	9.8	7340	146.49	50700	1.05	TF 108	MY 132M4	121
	11	6510	129.97	52800	1.20	TFF 108	MY 132M4	122
	12	5910	117.94	54200	1.30	TFA 108	MY 132M4	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				


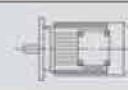
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7.5	215	335	6.64	15300	3.3	TFA 78	MY 132M4	111	
	248	290	5.76	14800	3.7	TFAF 78	MY 132M4	110	
	277	260	5.16	14500	4.2	TF 78	MY 132M4	109	
	334	215	4.28	13800	4.7	TFF 78	MY 132M4	110	
9.2	4.1	19900	353	94200	0.90	TFA 158 / TRF98	MY 132ML4	133	
	4.8	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					


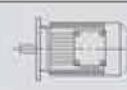
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9.2	73	1200	19.70	17400	1.25	TFA 78	MY 132ML4	111	
	82	1070	17.49	18000	1.40	TFAF 78	MY 132ML4	110	
	92	950	15.64*	18300	1.55	TF 78	MY 132ML4	109	
	102	860	14.06	18000	1.75	TFF 78	MY 132ML4	110	
	118	745	12.20	17500	2.0				
	132	665	10.93	17100	2.3				
	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					


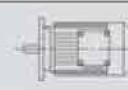
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11.0	12	8600	117.94	47300	0.90	TFA 108	MY 160M4	123	
	14	7400	101.38*	50600	1.05	TFAF 108	MY 160M4	122	
	16	6750	92.47*	52200	1.15	TF 108	MY 160M4	121	
						TFF 108	MY 160M4	122	
		17	6130	83.99	53700	1.25	TFA 108	MY 160M4	123
		19	5440	74.52	55300	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	F_{r_2} [N]	f_s			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				


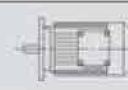
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{R2} [N]	f_s			Page
15.0	55	2600	26.50	12300	1.15	TFA 88	MY 160L4	115
	62	2320	23.68	12600	1.30	TFAF 88	MY 160L4	114
	68	2090	21.32*	12700	1.45	TF 88	MY 160L4	113
	76	1890	19.31	12800	1.60	TFF 88	MY 160L4	114
	85	1680	17.12	12900	1.80			
	94	1520	15.48	12800	2.0			
	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_{R_2} [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	


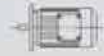

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
30	89	3230	16.58	37600	2.4	TFA 108	MY 200L4	123
	100	2860	14.67	36900	2.7	TFAF 108	MY 200L4	122
	119	2400	12.33	35900	2.9	TF 108	MY 200L4	121
	148	1940	9.96	34500	3.4	TFF 108	MY 200L4	122
	66	4310	22.11	15100	1.00	TFA 98	MY 200L4	119
	73	3910	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
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



$M_2 \text{ max}$ [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_{r2} [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					

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	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	
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		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	
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			TFF	98 / TRF58	MY 80K4	133		

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				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	
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	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
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				TFF	108 / TRF78	MY 80N4	133
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	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	
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			TFF	108 / TRF78	MY 100M4	133	

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	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
TF 108 / TRF78				MY 112M4	133	
			TFF 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	
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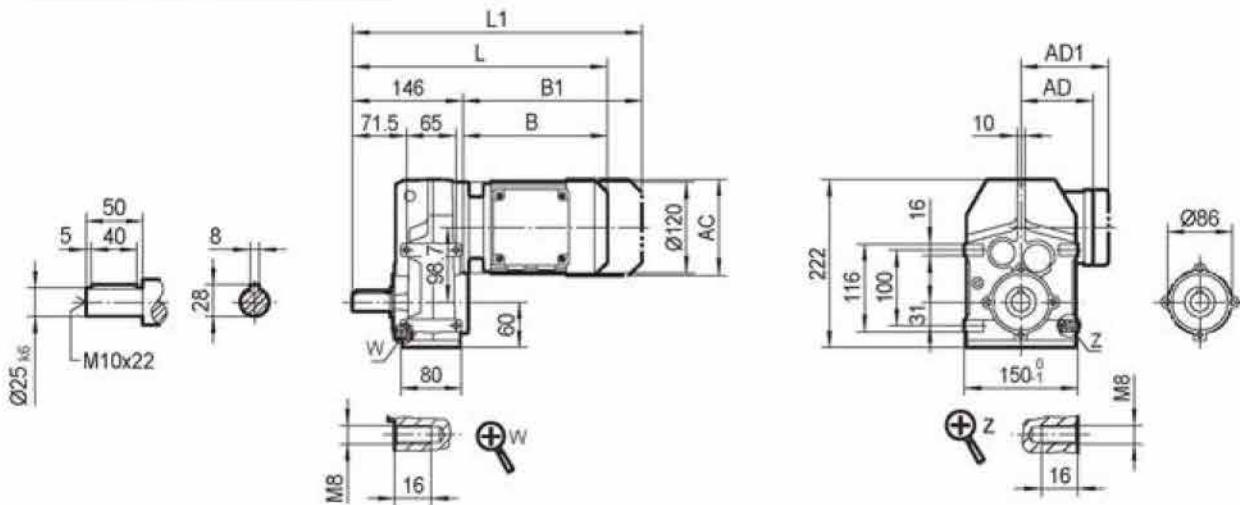
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				TF 128 / TRF78	MY 132S4	133
				TFF 128 / TRF78	MY 132S4	133
	3.0	483	90000	TFA 128 / TRF88	MY 132S4	133
	3.4	418	90000	TFAF 128 / TRF88	MY 132S4	133
	3.8	374	90000	TF 128 / TRF88	MY 132S4	133
				TFF 128 / TRF88	MY 132S4	133
	4.6	312	90000	TFA 128 / TRF88	MY 132M4	133
	4.9	293	90000	TFAF 128 / TRF88	MY 132M4	133
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				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
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	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
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			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	

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				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
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				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
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	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
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	2.1	680	100300	TFA 158 / TRF98	MY 132S4	133
	2.5	576	100300	TFAF 158 / TRF98	MY 132S4	133
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	2.8	503	100300	TFA 158 / TRF98	MY 132M4	133
	3.2	446	100300	TFAF 158 / TRF98	MY 132M4	133
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				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
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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	
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7. OUTLINE DIMENSION SHEET

7.1 Outline Dimension

TF28..

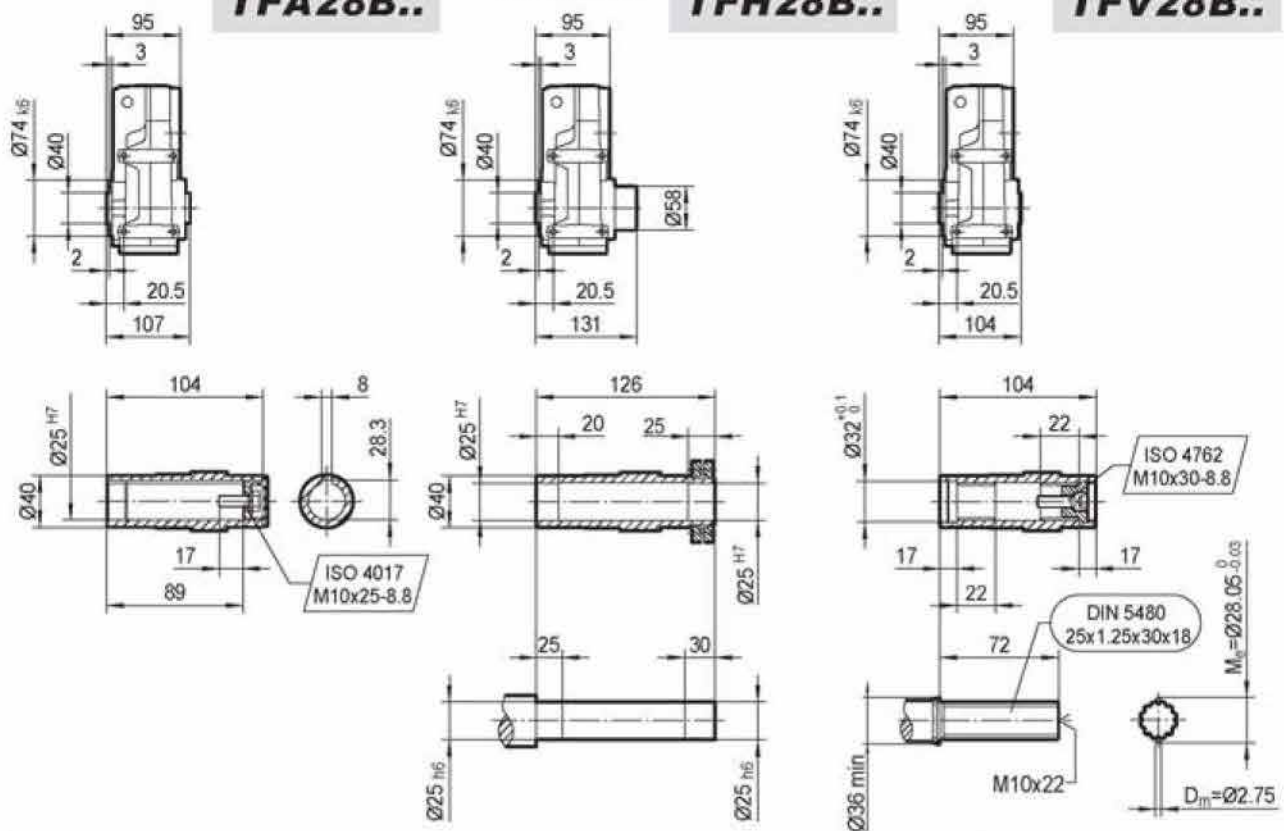


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max.MY80..

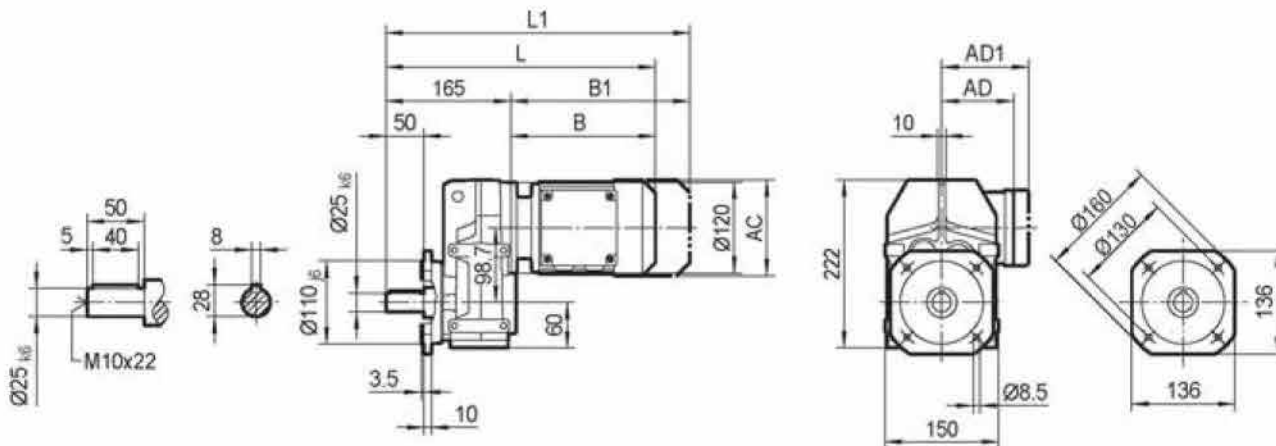
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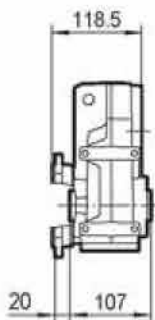


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AC	132	145	145	197					
AD	105	122	122	154					
AD1	105	127	127	161					
B	191	206	256	276					
B1	246	269	319	361					
L	337	352	402	422					
L1	392	415	465	507					

TFF28..

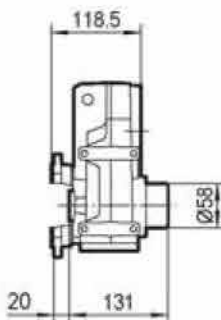


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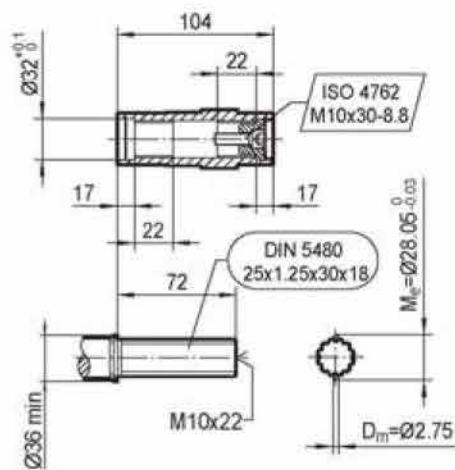
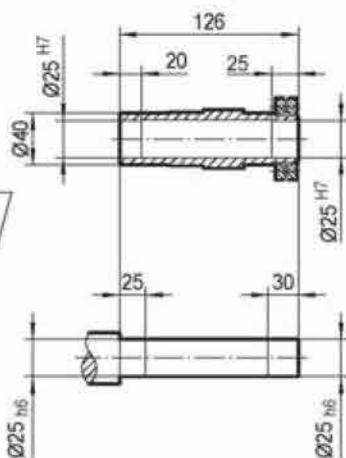
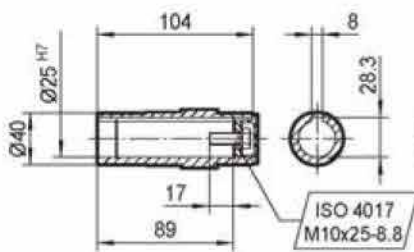
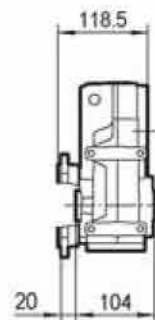


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max.MY80..

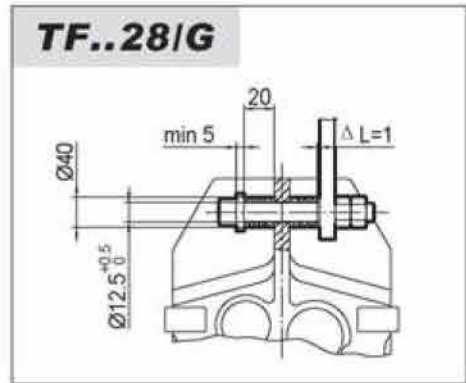
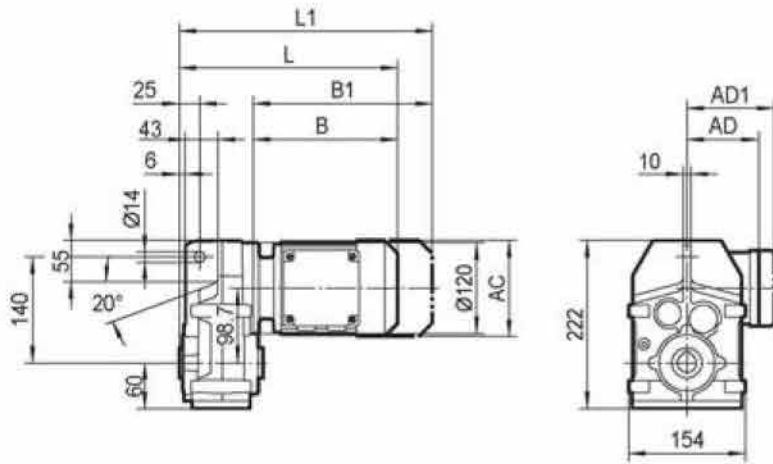


TFVF28..

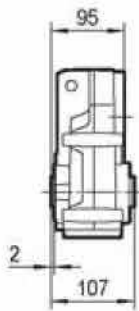


	MY63..	MY71D	MY80..	MY90..					
AC	132	145	145	197					
AD	105	122	122	154					
AD1	105	127	127	161					
B	191	206	256	276					
B1	246	269	319	361					
L	356	371	421	441					
L1	411	434	484	526					

TFA28..

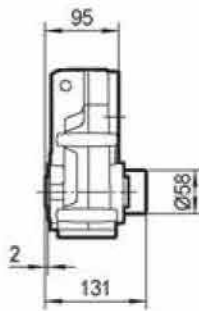


TFA28..

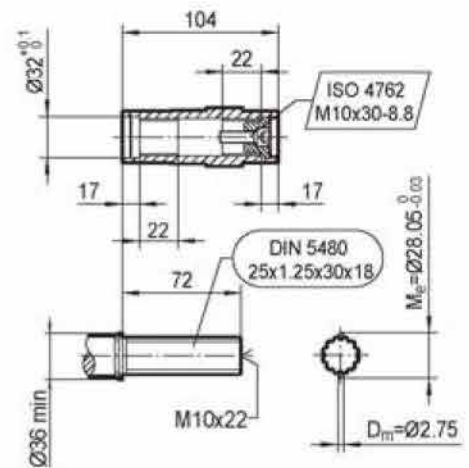
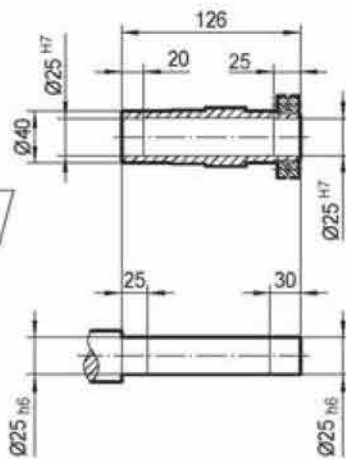
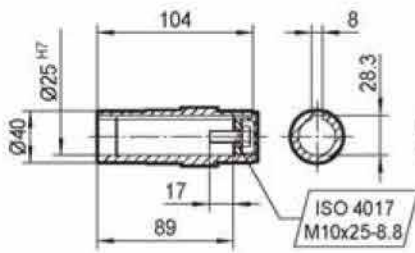
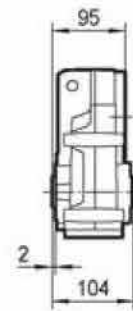


TFH28..

max.MY80..

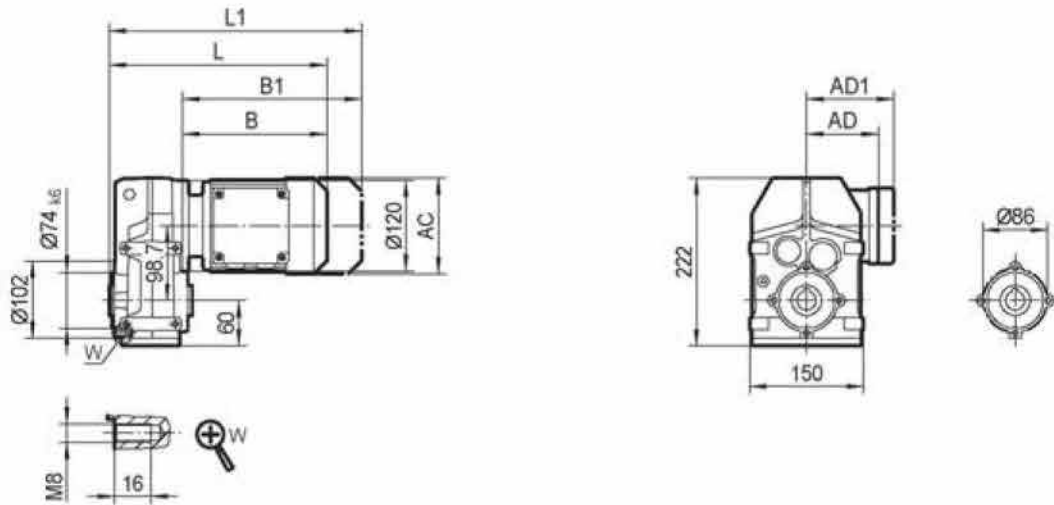


TFV28..

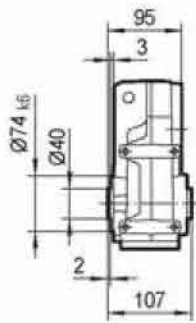


	MY63..	MY71D	MY80..	MY90..					
AC	132	145	145	197					
AD	105	122	122	154					
AD1	105	127	127	161					
B	191	206	256	276					
B1	246	269	319	361					
L	286	301	351	371					
L1	341	364	414	456					

TFAZ28..

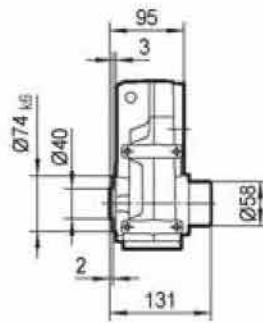


TFAZ28..

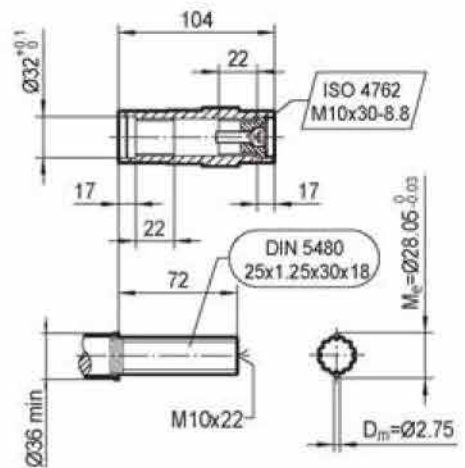
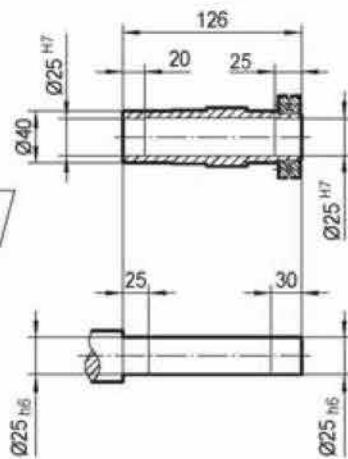
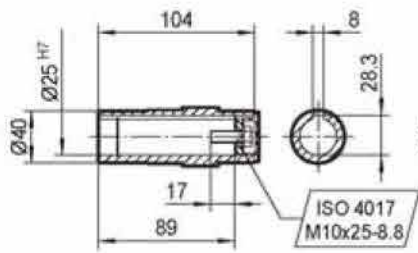
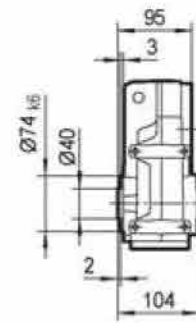


TFHZ28..

max.MY80..

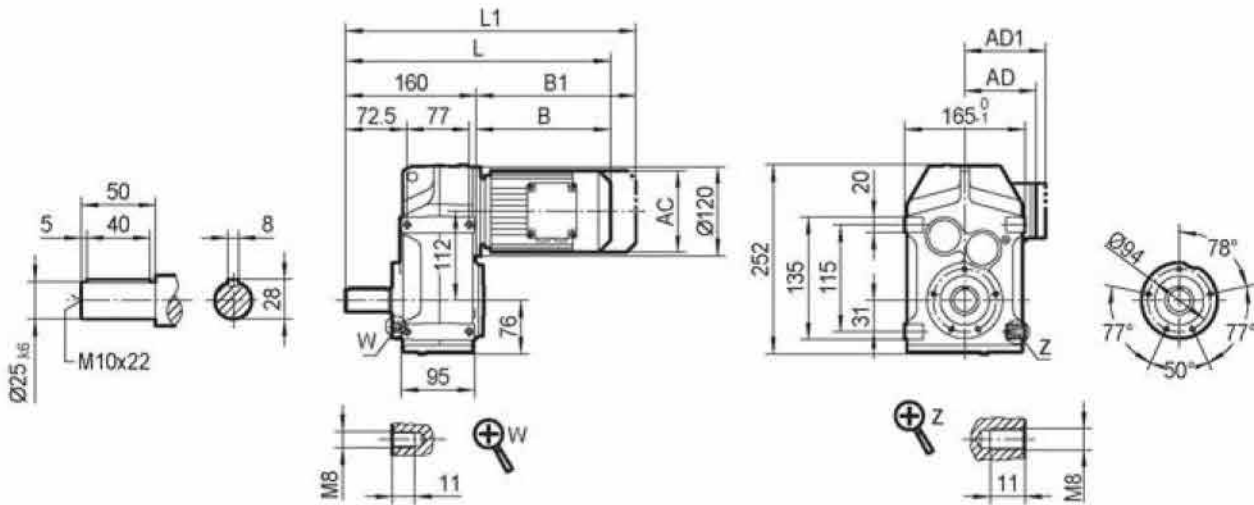


TFVZ28..



	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					

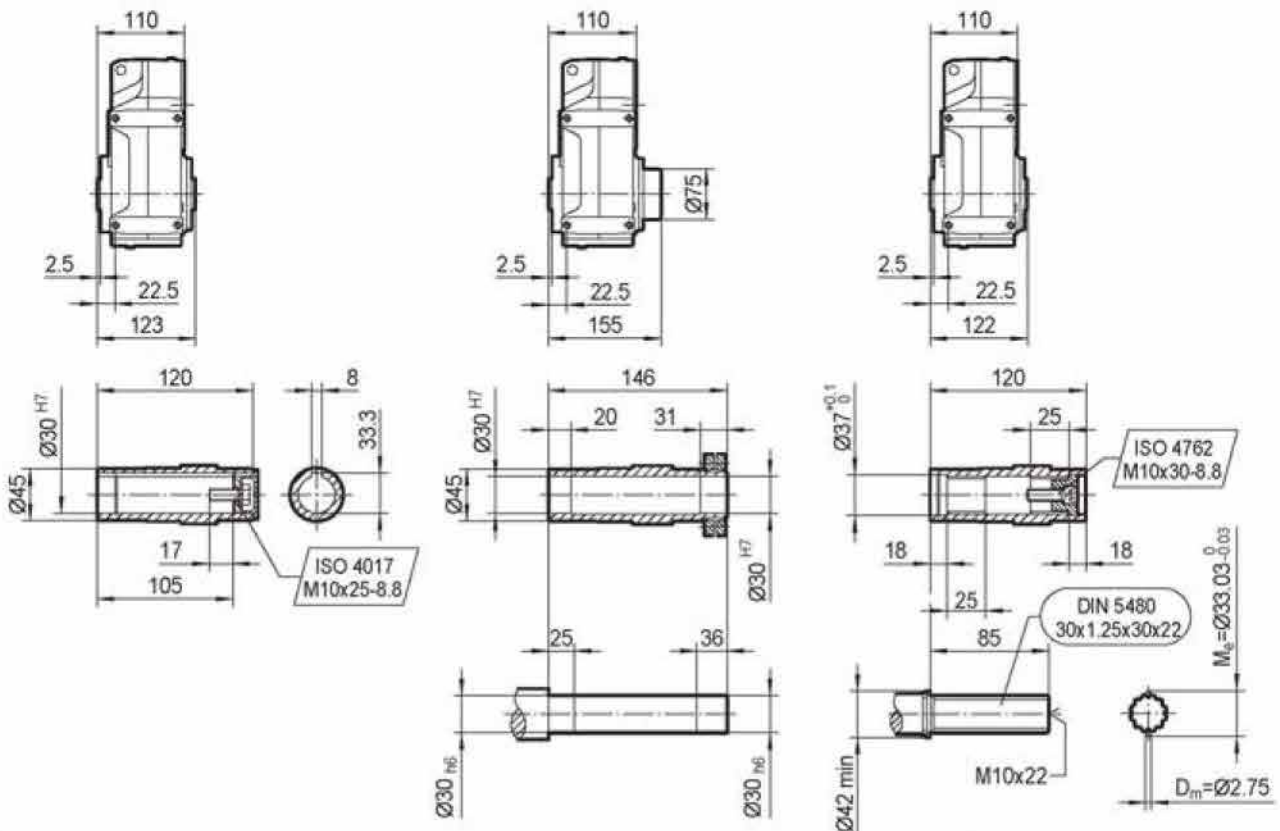
TF38..



TFA38B..

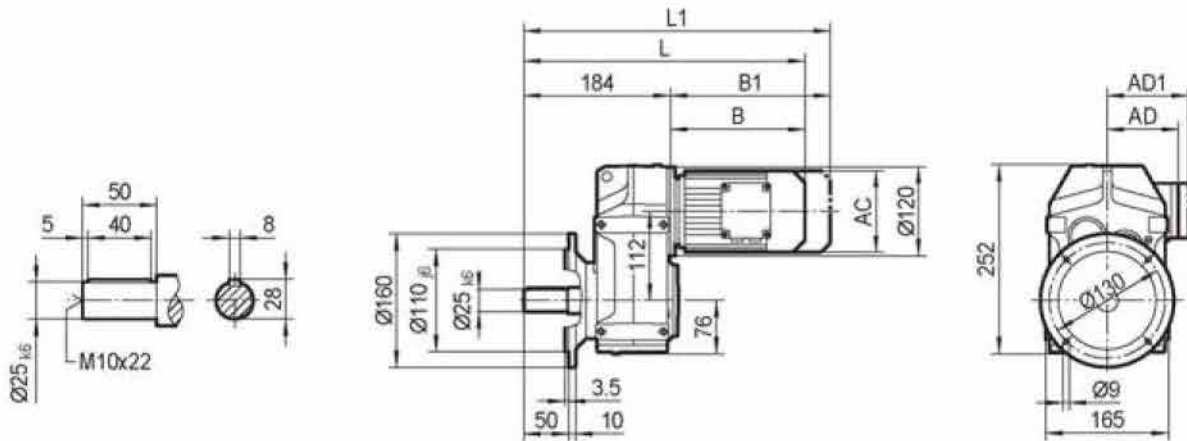
TFH38B..

TFV38B..

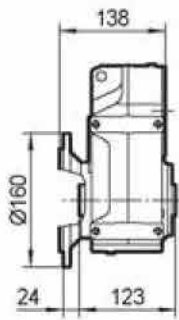


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L				
AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	351	366	416	436	488	518				
L1	406	429	479	521	573	603				

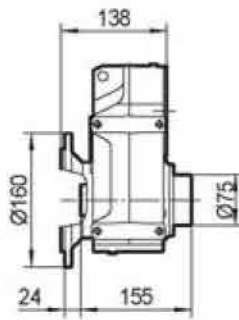
TFF38..



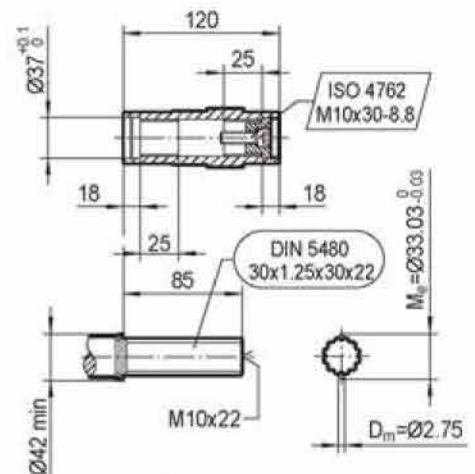
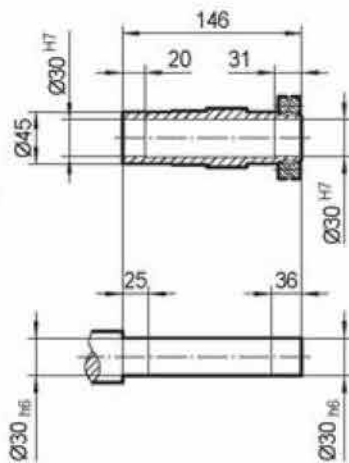
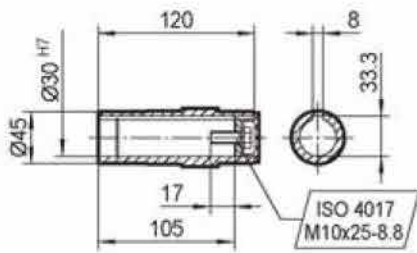
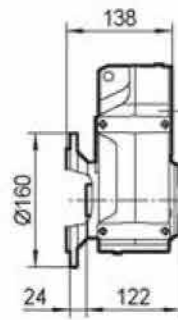
TFAF38..



TFHF38..

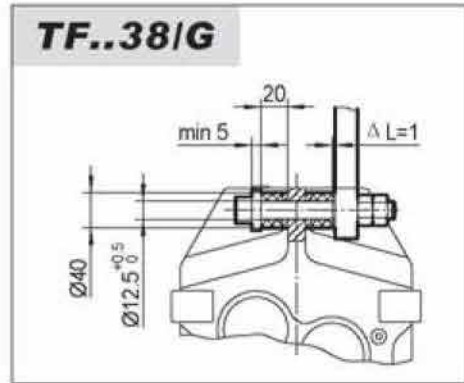
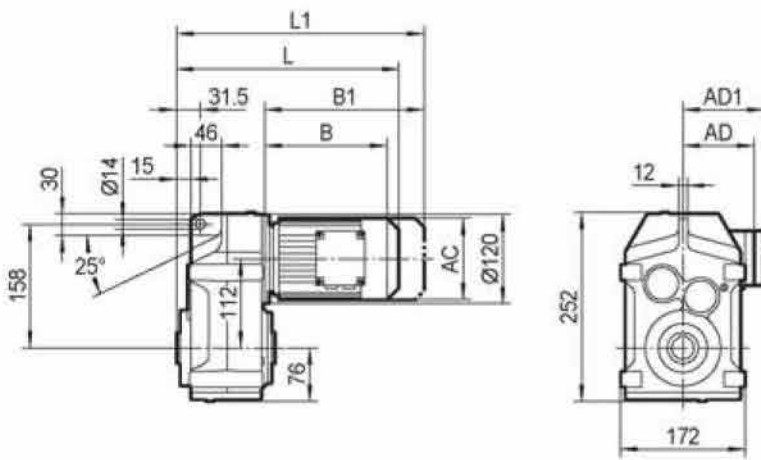


TFVF38..



	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				

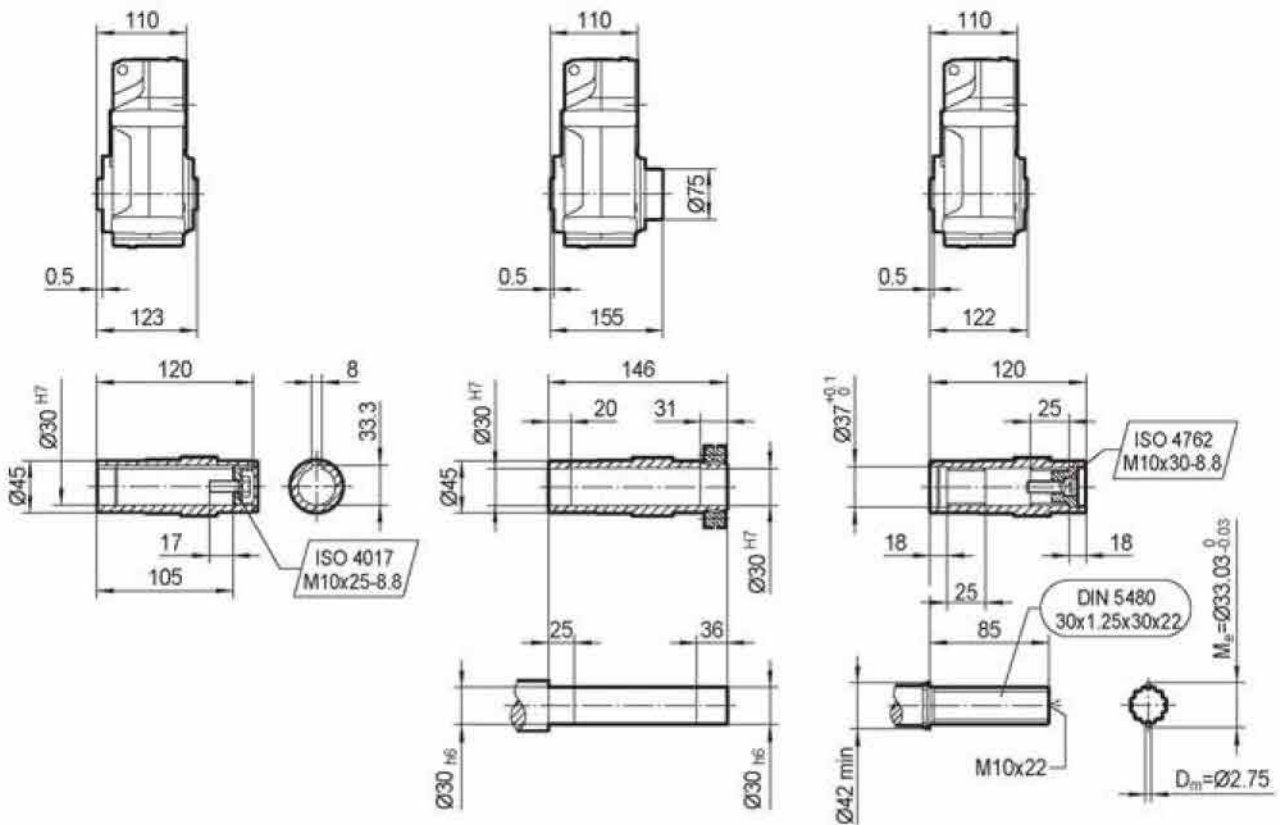
TFA38..



TFA38..

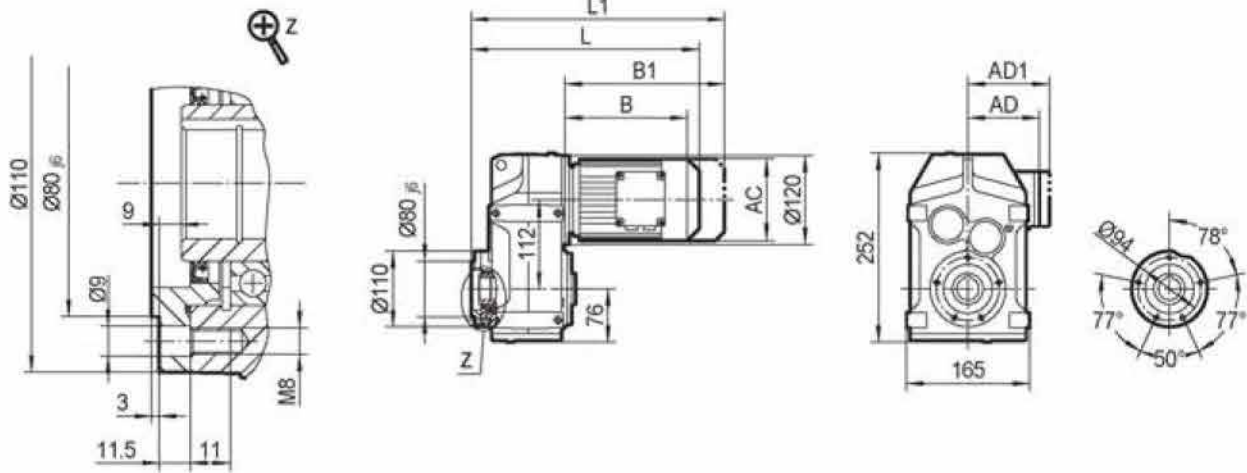
TFH38..

TFV38..

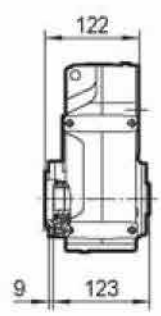


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L				
AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	301	316	366	386	438	468				
L1	356	379	429	471	523	553				

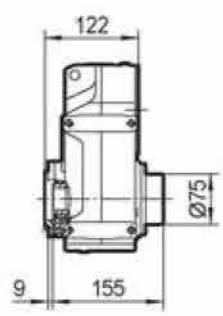
TFAZ38..



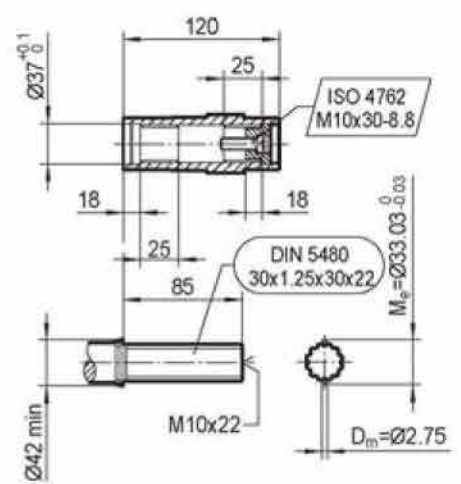
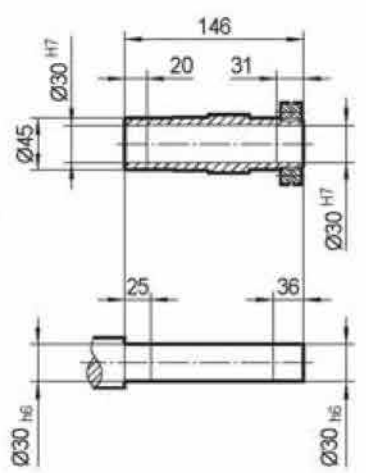
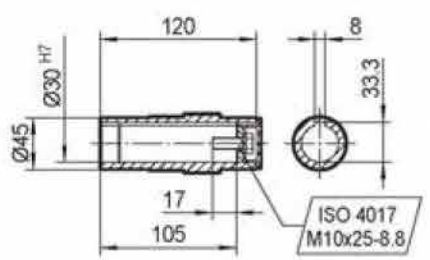
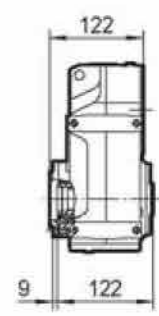
TFAZ38..



TFHZ38..

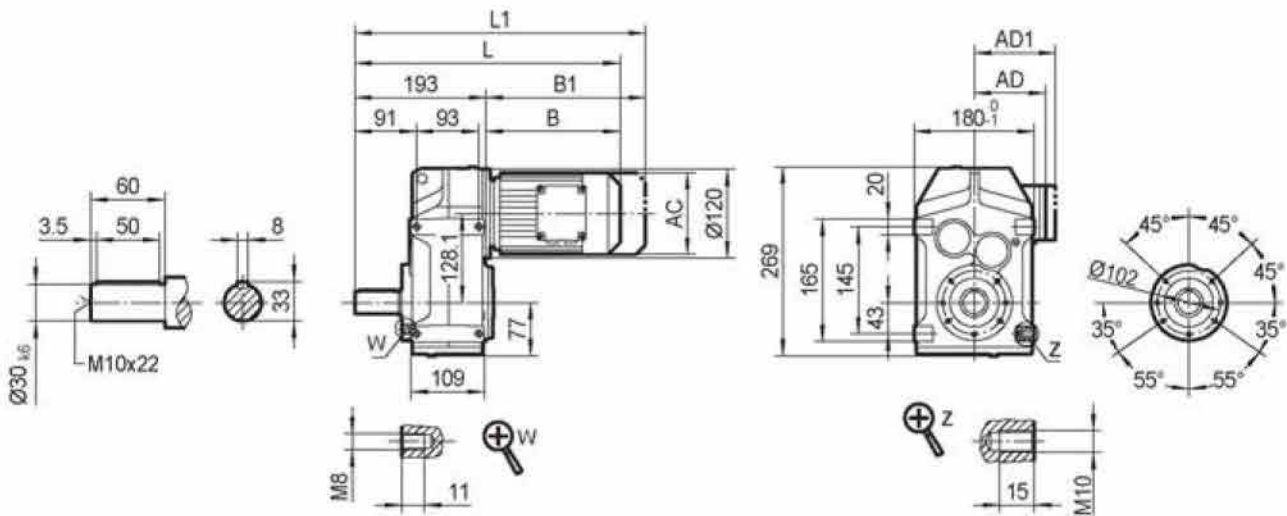


TFVZ38..



	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			

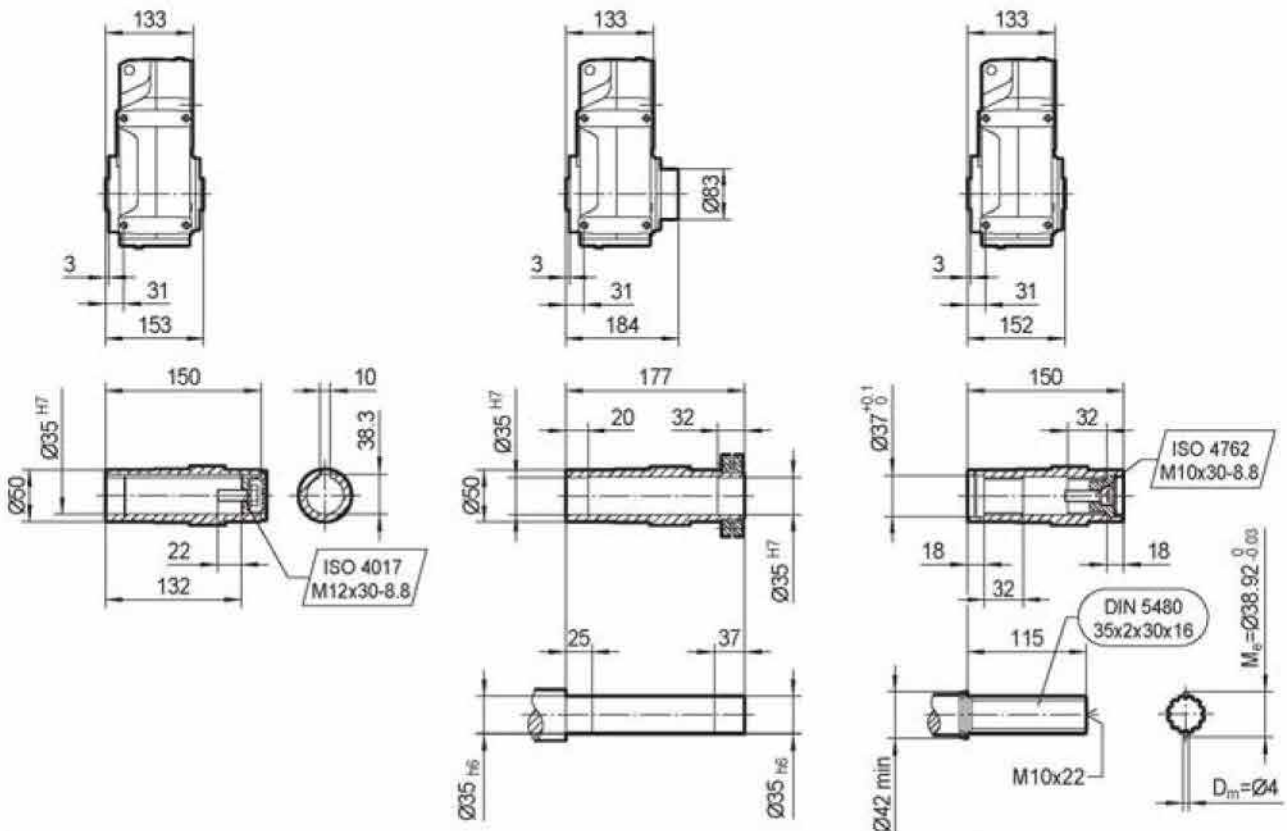
TF48..



TFA48B..

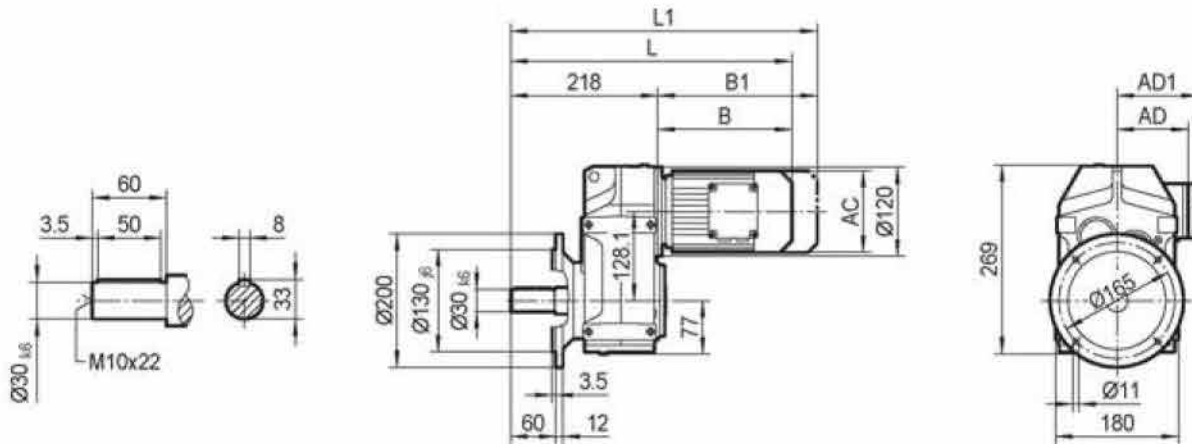
TFH48B..

TFV48B..

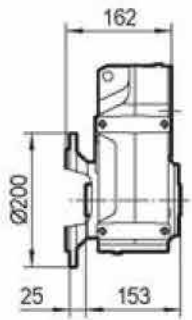


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L				
AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	384	399	449	469	521	551				
L1	439	462	512	554	606	636				

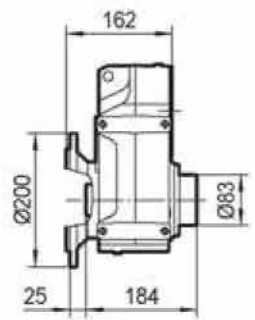
TFF48..



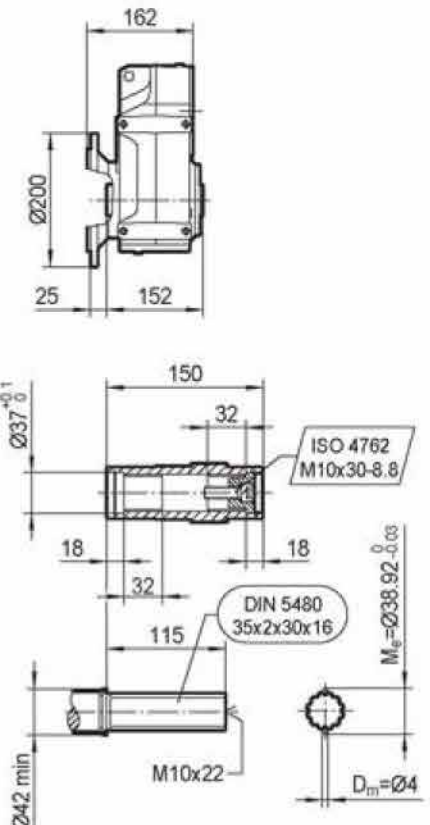
TFAF48..



TFHF48..

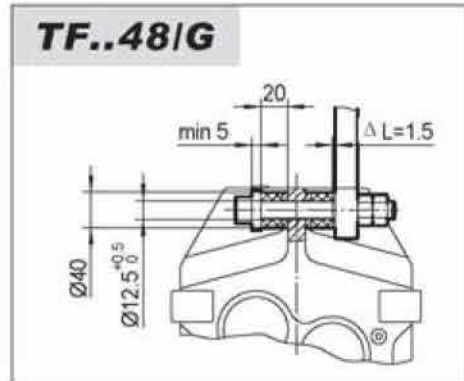
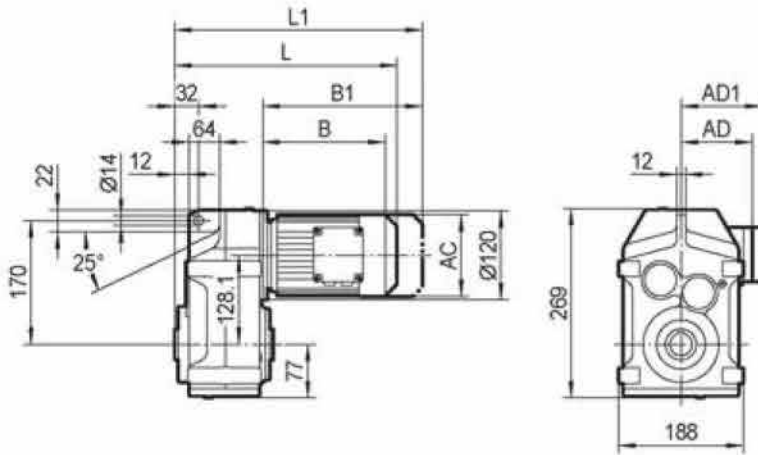


TFVF48..



	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				

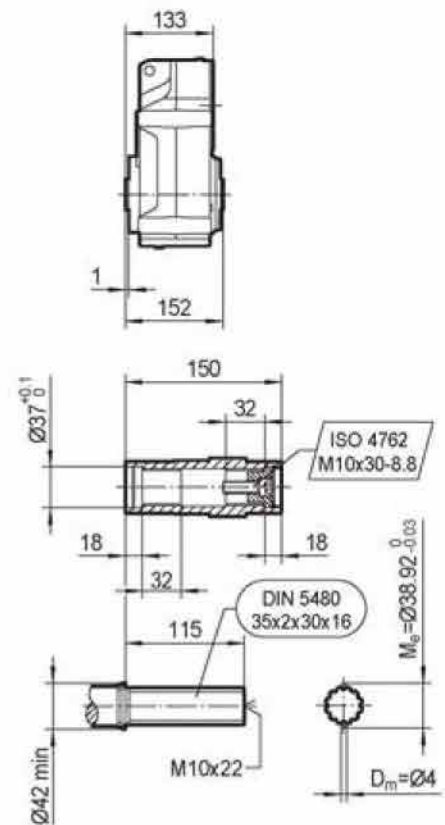
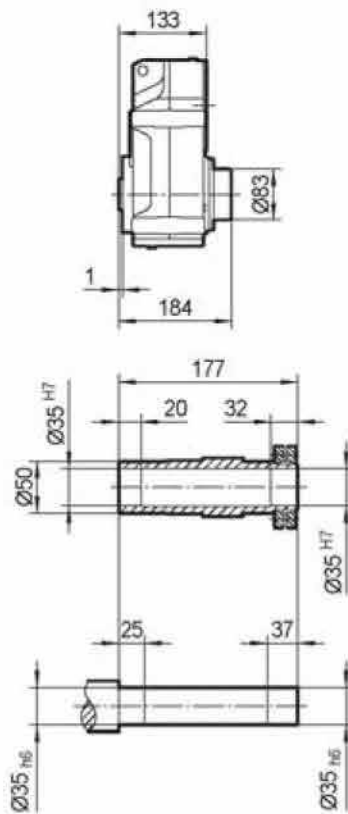
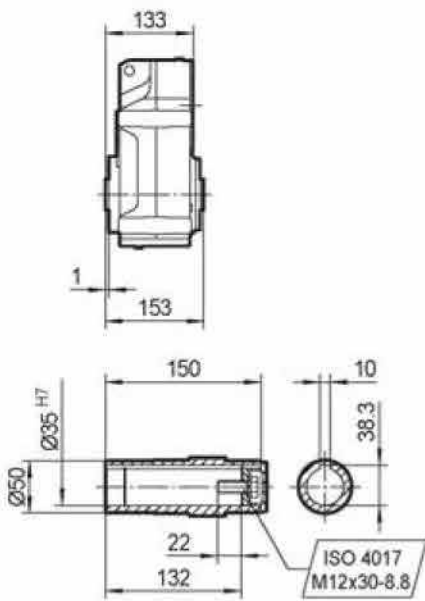
TFA48..



TFA48..

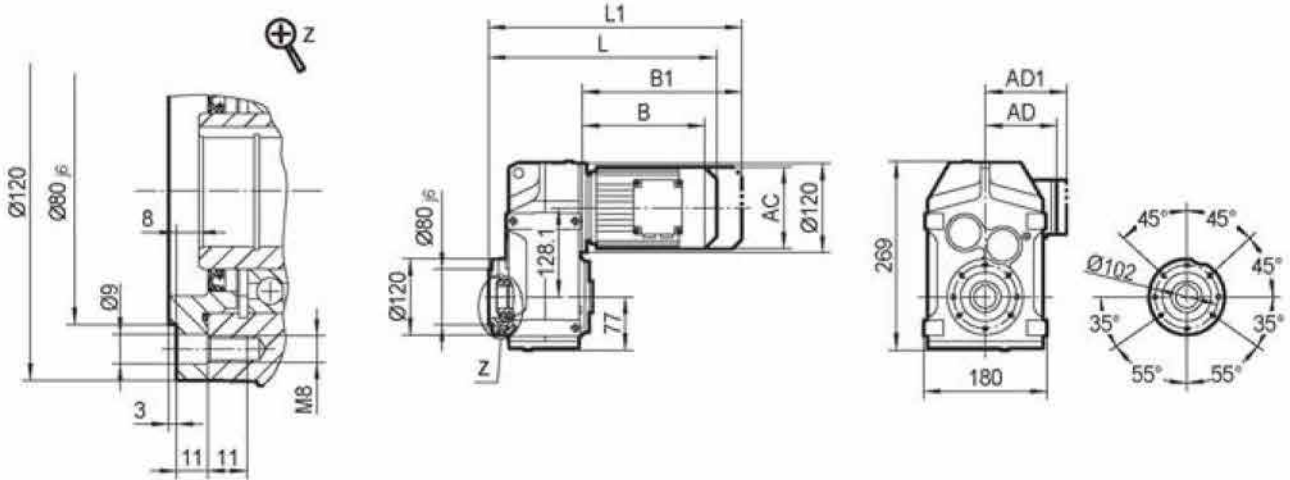
TFH48..

TFV48..

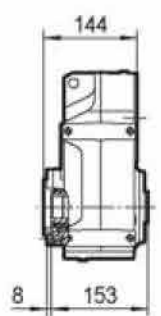


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L				
AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	324	339	389	409	461	491				
L1	379	402	452	494	546	576				

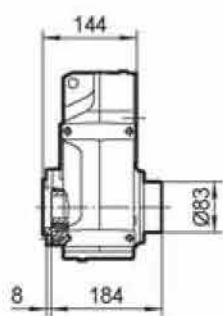
TFAZ48..



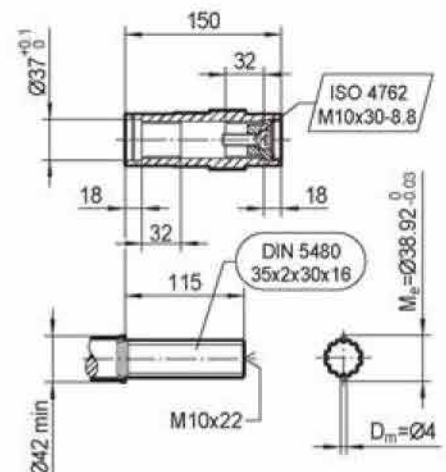
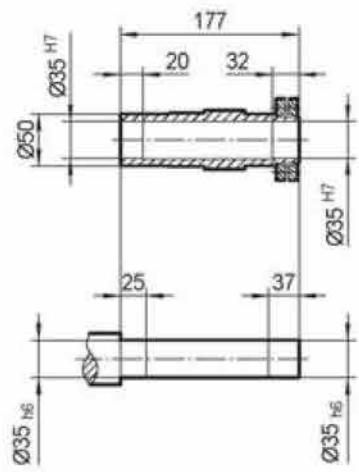
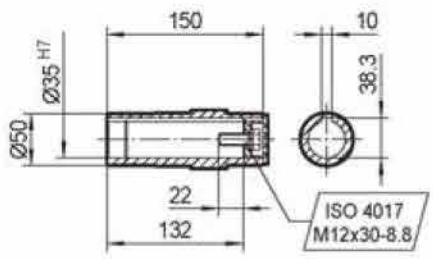
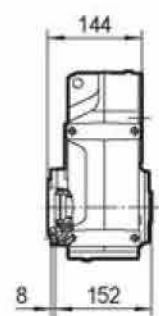
TFAZ48..



TFHZ48..

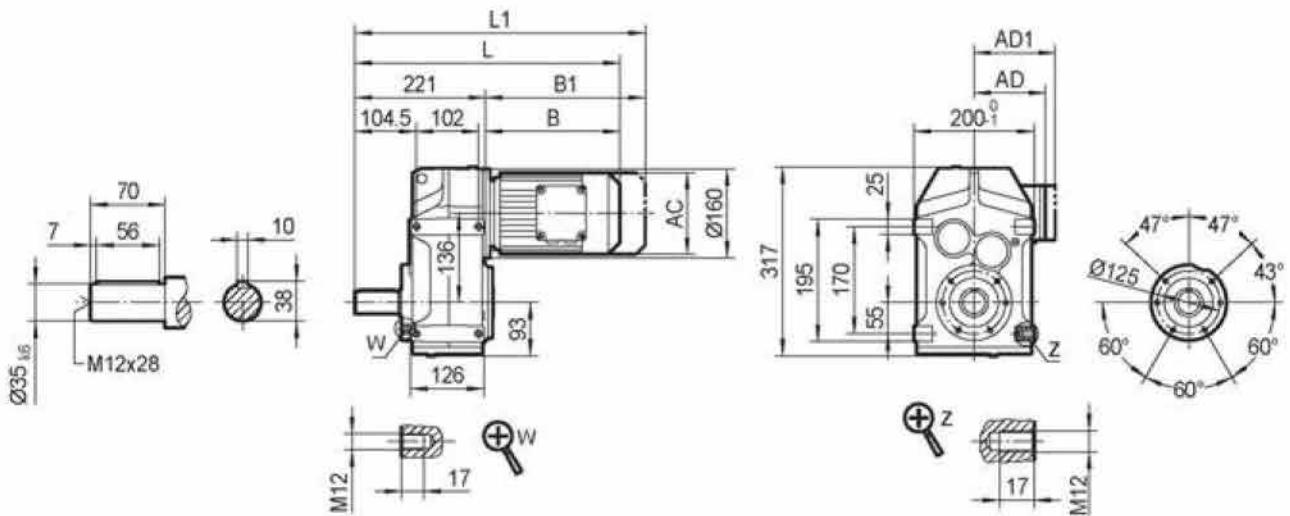


TFVZ48..



	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

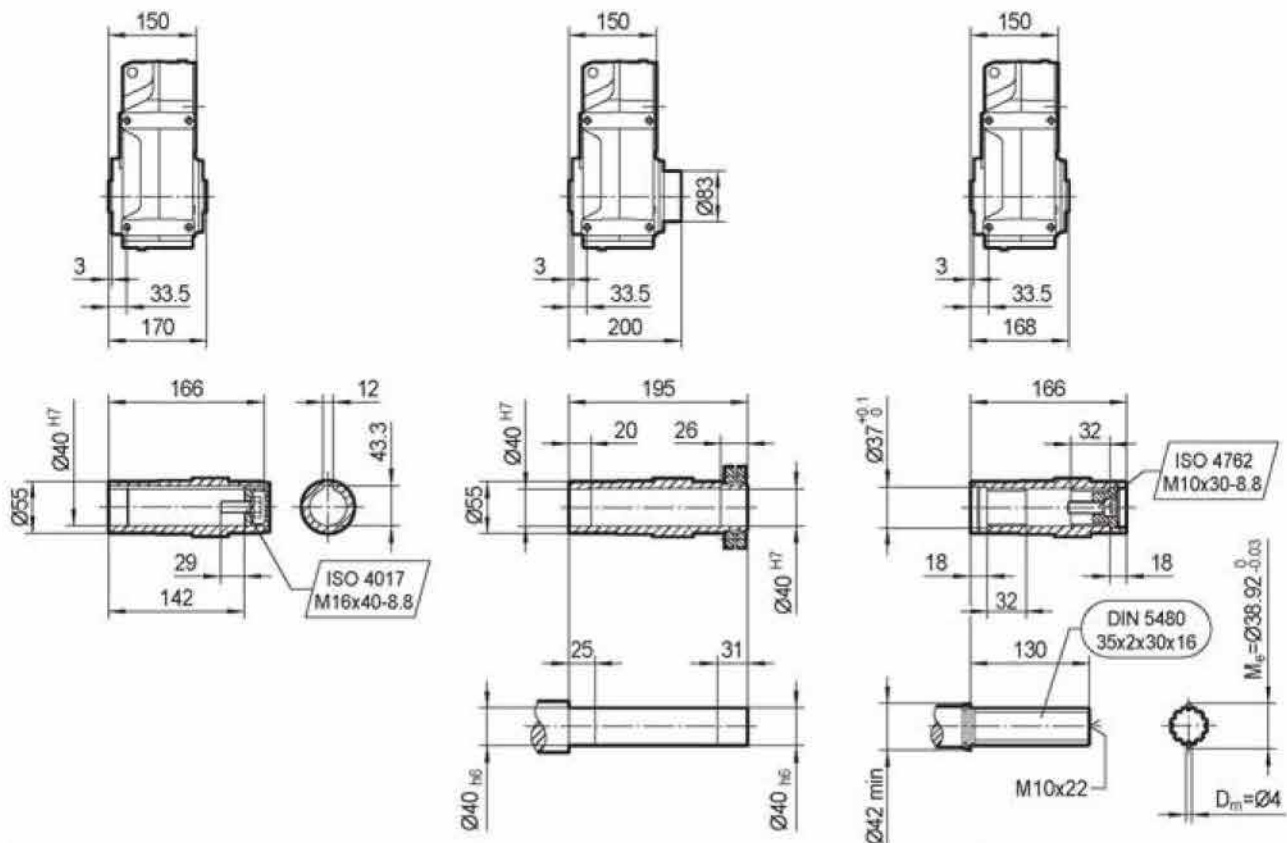
TF58..



TFA58B..

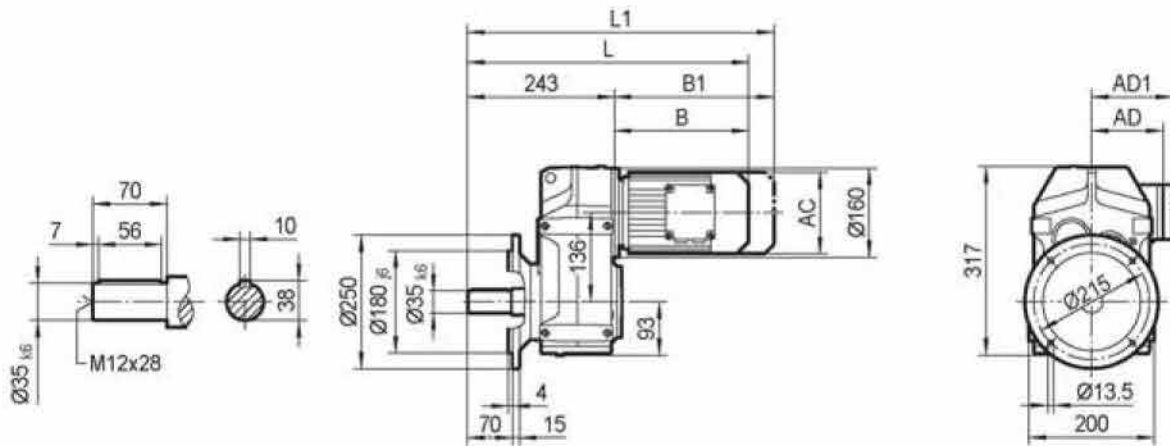
TFH58B..

TFV58B..

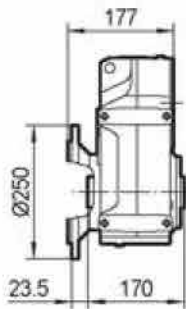


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S			
AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	406	420	470	490	540	570	575	623			
L1	461	484	534	575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

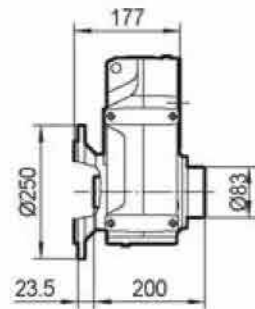
TFF58..



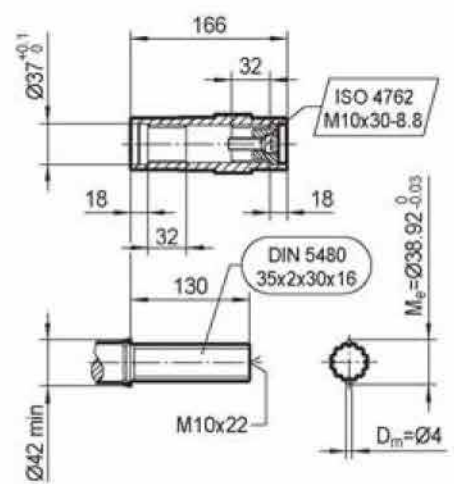
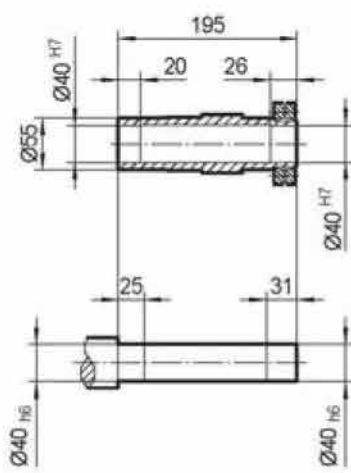
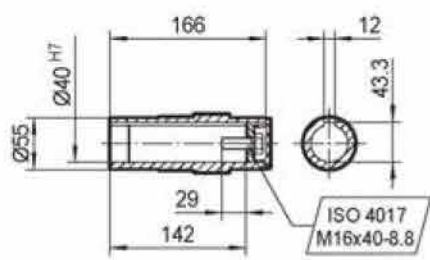
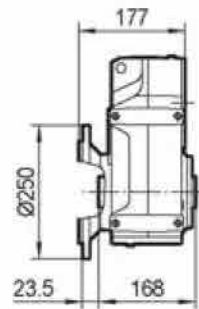
TFAF58..



TFHF58..

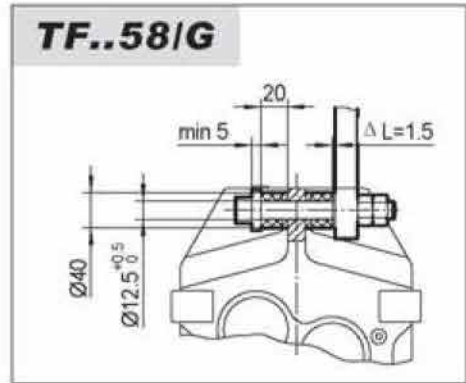
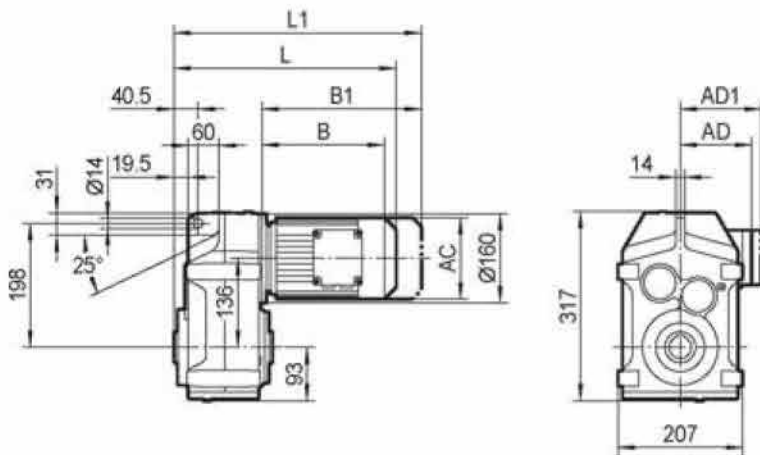


TFVF58..

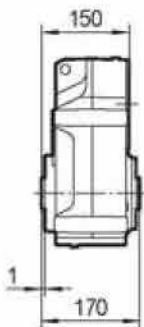


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S		
AC	132	145	145	197	197	197	221	221		
AD	105	122	122	154	166	166	179	179		
AD1	105	127	127	161	166	166	182	182		
B	185	199	249	269	319	349	354	402		
B1	240	263	313	354	404	434	434	482		
L	428	442	492	512	562	592	597	645		
L1	483	506	556	597	647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

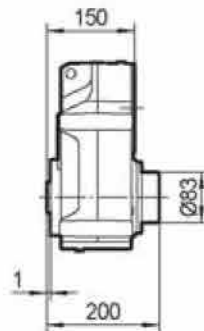
TFA58..



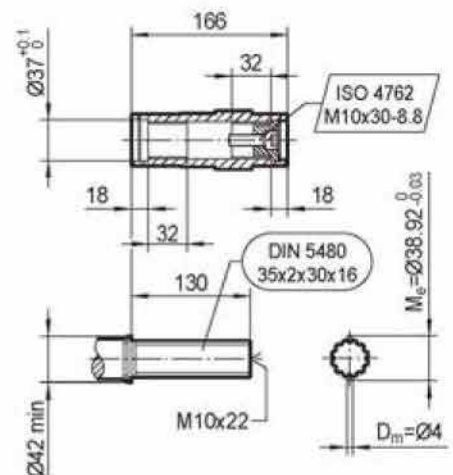
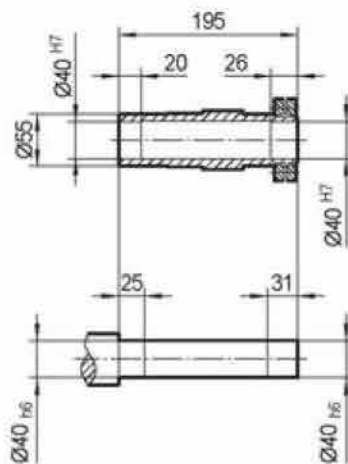
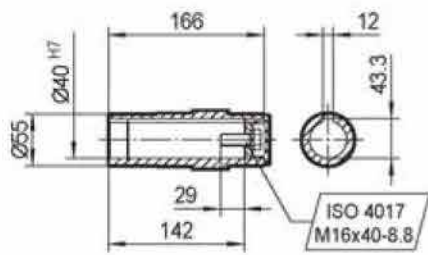
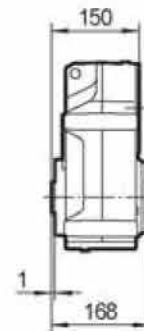
TFA58..



TFH58..

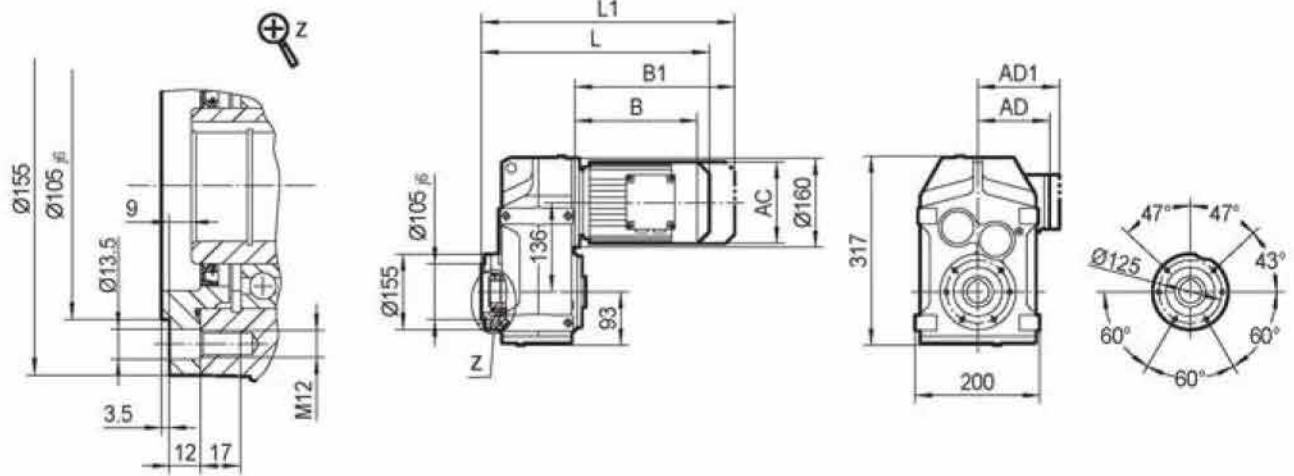


TFV58..

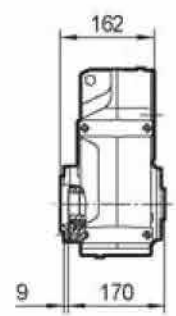


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S		
AC	132	145	145	197	197	197	221	221		
AD	105	122	122	154	166	166	179	179		
AD1	105	127	127	161	166	166	182	182		
B	185	199	249	269	319	349	354	402		
B1	240	263	313	354	404	434	434	482		
L	335	349	399	419	469	499	504	552		
L1	390	413	463	504	554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

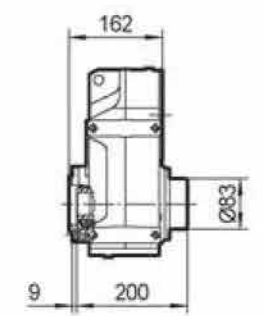
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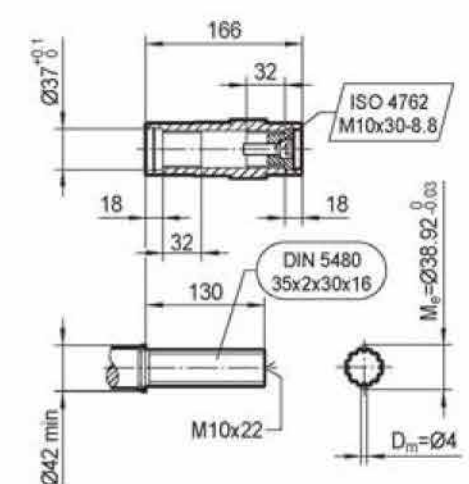
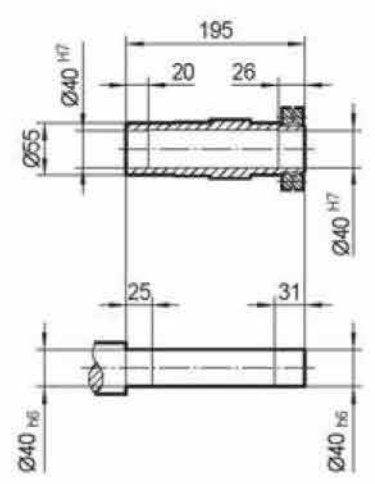
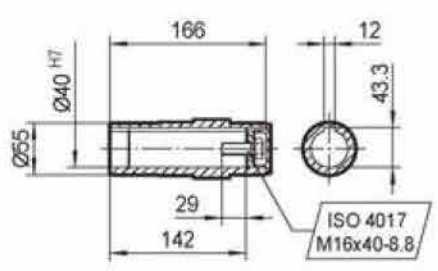
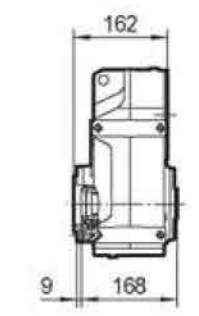
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TFHZ58..

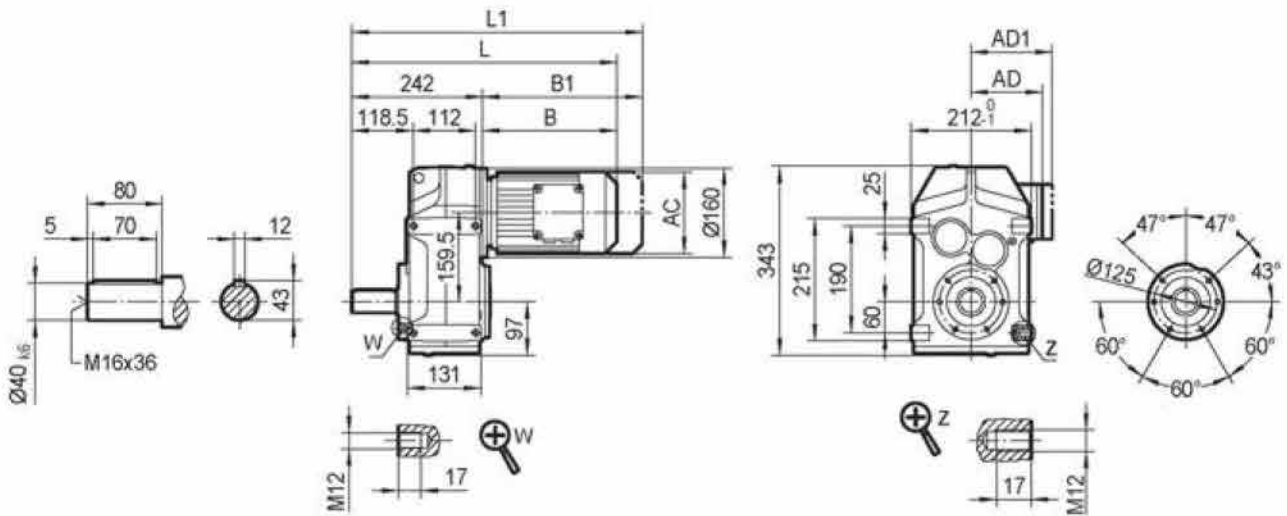


TFVZ58..



	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		

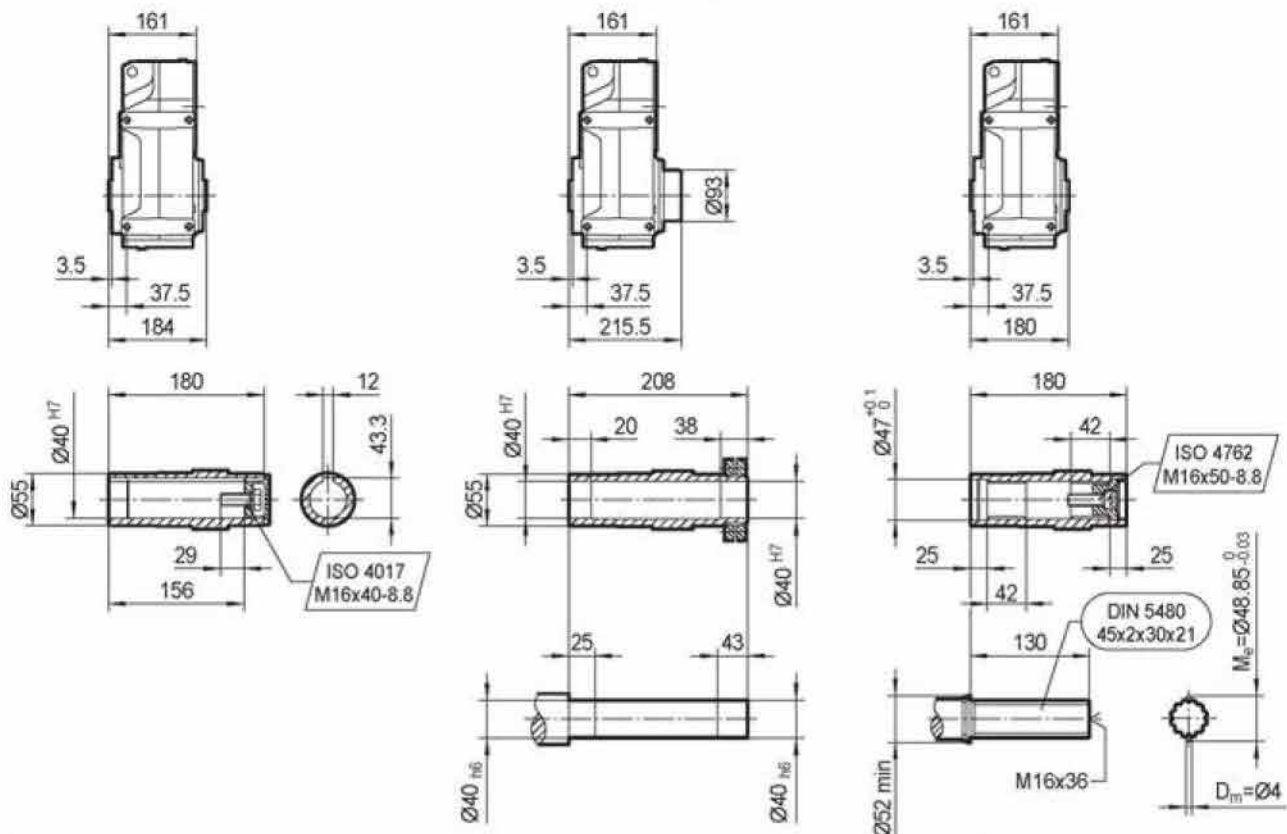
TF68..



TFA68B..

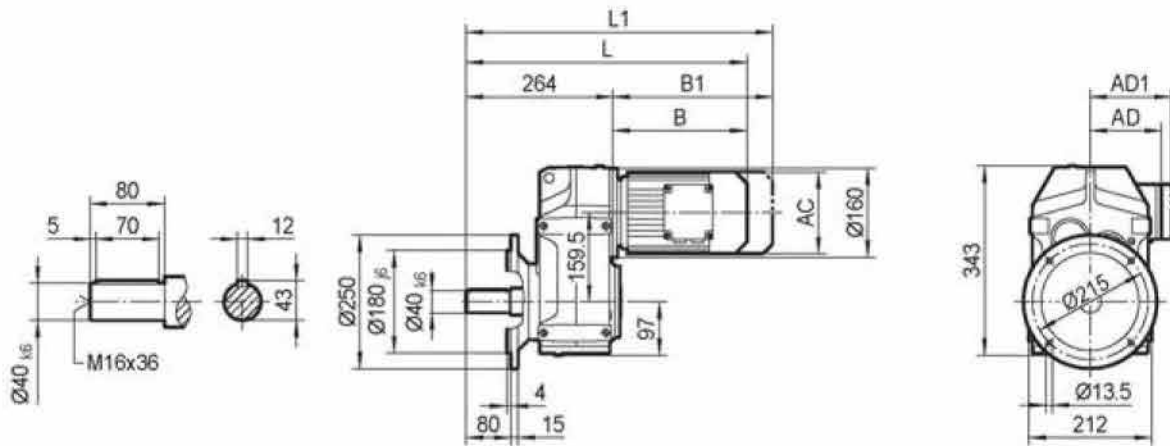
TFH68B..

TFV68B..

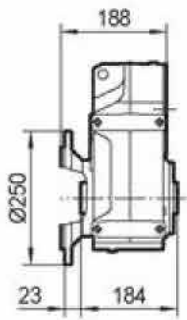


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S		
AC	132	145	145	197	197	197	221	221		
AD	105	122	122	154	166	166	179	179		
AD1	105	127	127	161	166	166	182	182		
B	185	199	249	269	319	349	354	402		
B1	240	263	313	354	404	434	434	482		
L	427	441	491	511	561	591	596	644		
L1	482	505	555	596	646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

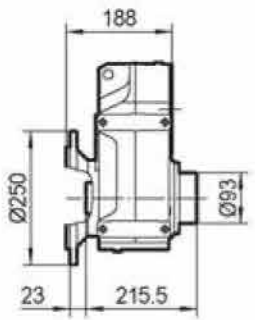
TFF68..



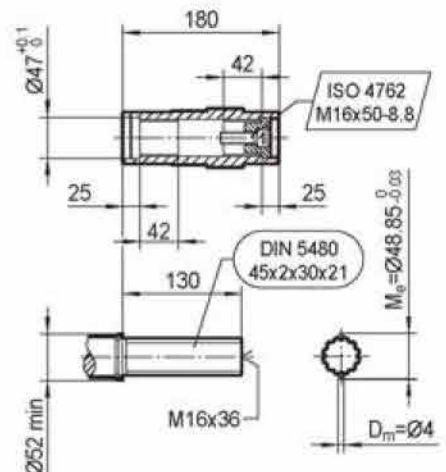
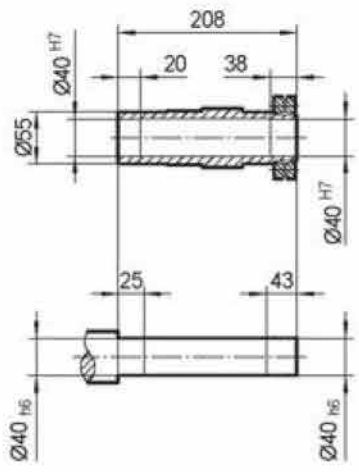
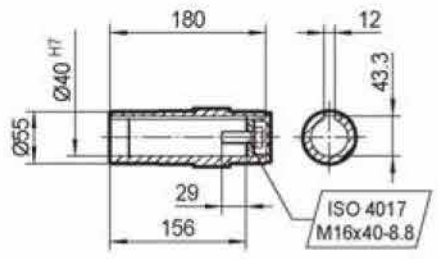
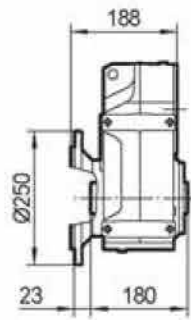
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TFHF68..

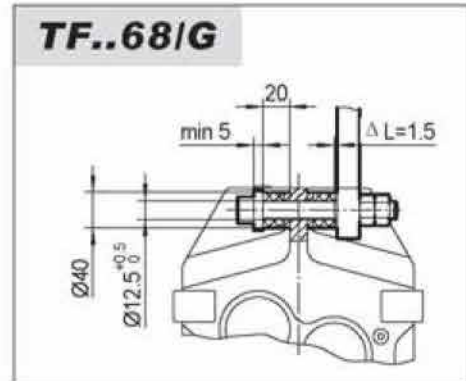
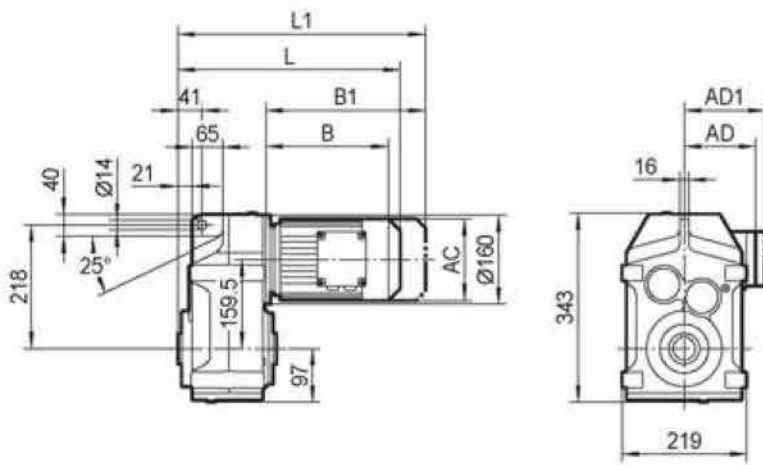


TFVF68..

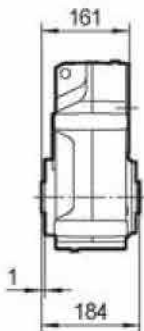


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S		
AC	132	145	145	197	197	197	221	221		
AD	105	122	122	154	166	166	179	179		
AD1	105	127	127	161	166	166	182	182		
B	185	199	249	269	319	349	354	402		
B1	240	263	313	354	404	434	434	482		
L	449	463	513	533	583	613	618	666		
L1	504	527	577	618	668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

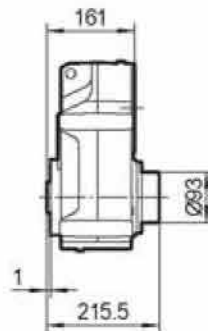
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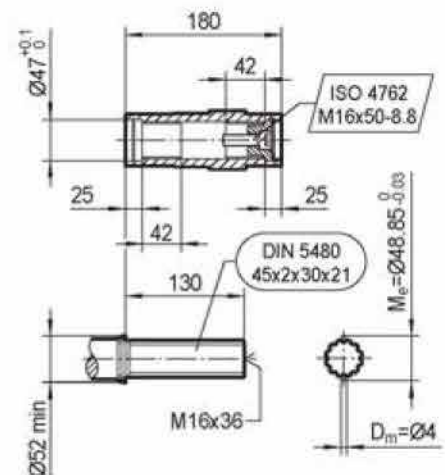
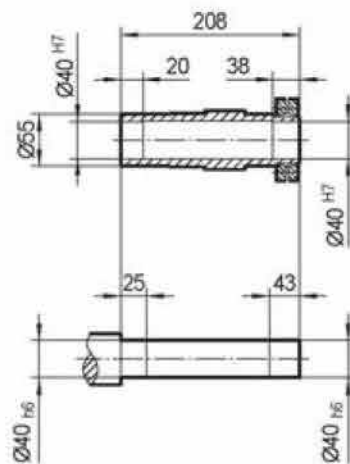
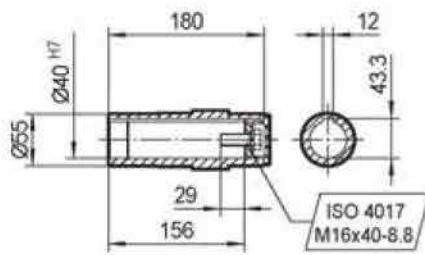
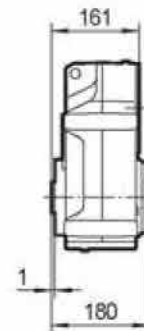
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TFH68..

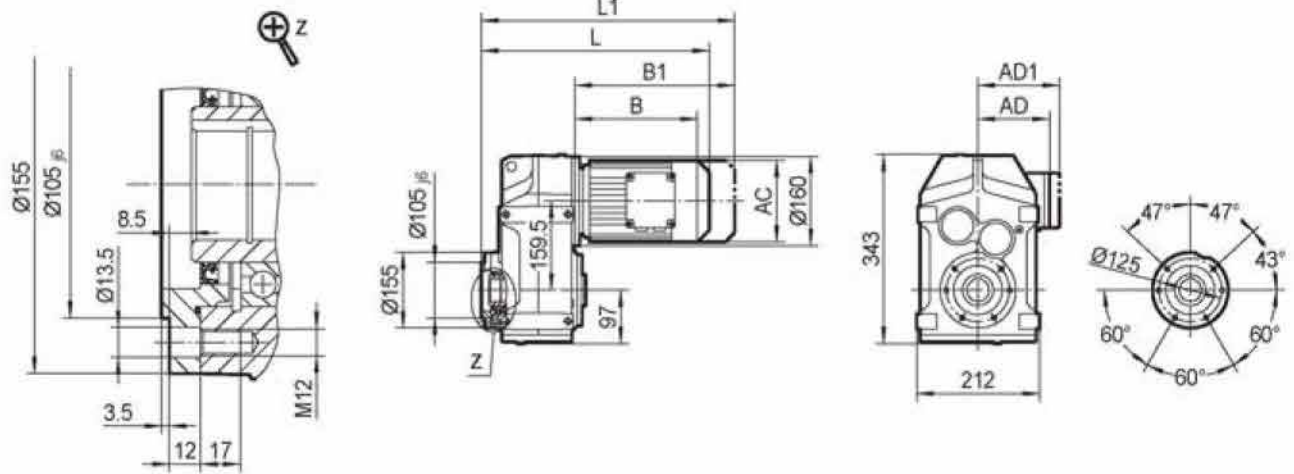


TFV68..

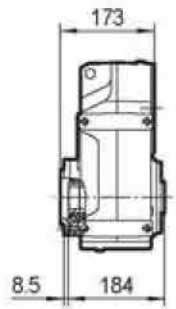


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S		
AC	132	145	145	197	197	197	221	221		
AD	105	122	122	154	166	166	179	179		
AD1	105	127	127	161	166	166	182	182		
B	185	199	249	269	319	349	354	402		
B1	240	263	313	354	404	434	434	482		
L	346	360	410	430	480	510	515	563		
L1	401	424	474	515	565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

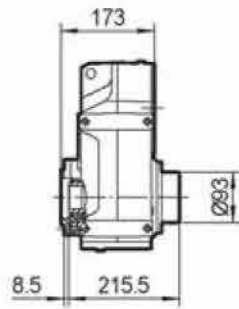
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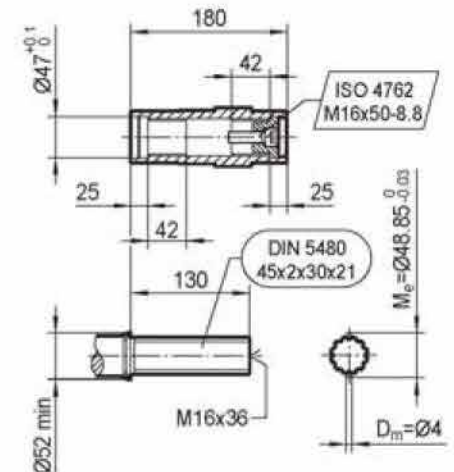
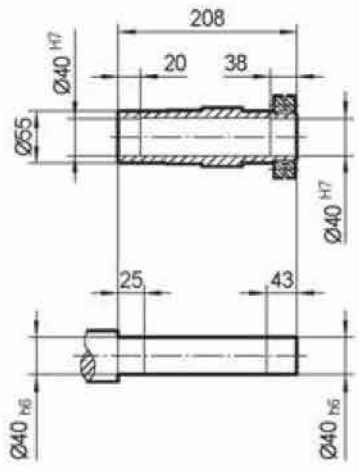
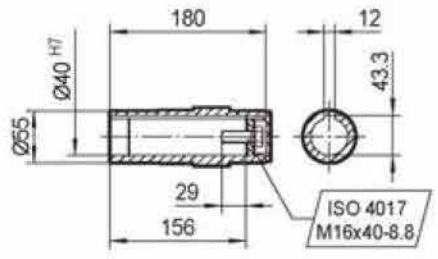
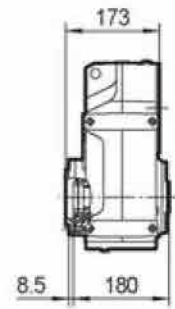
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TFHZ68..

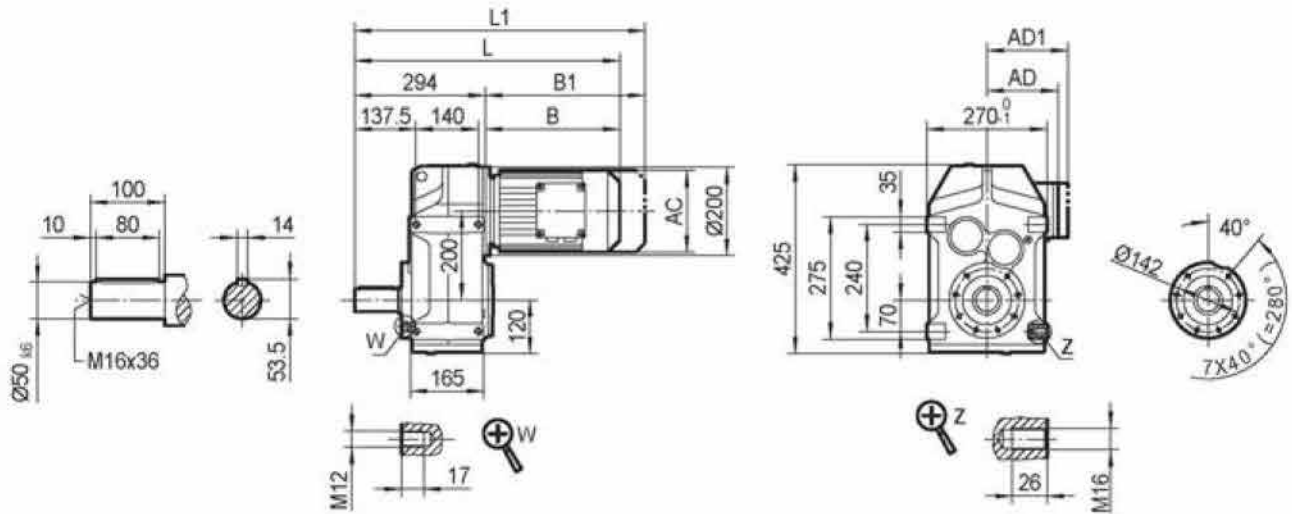


TFVZ68..



	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		

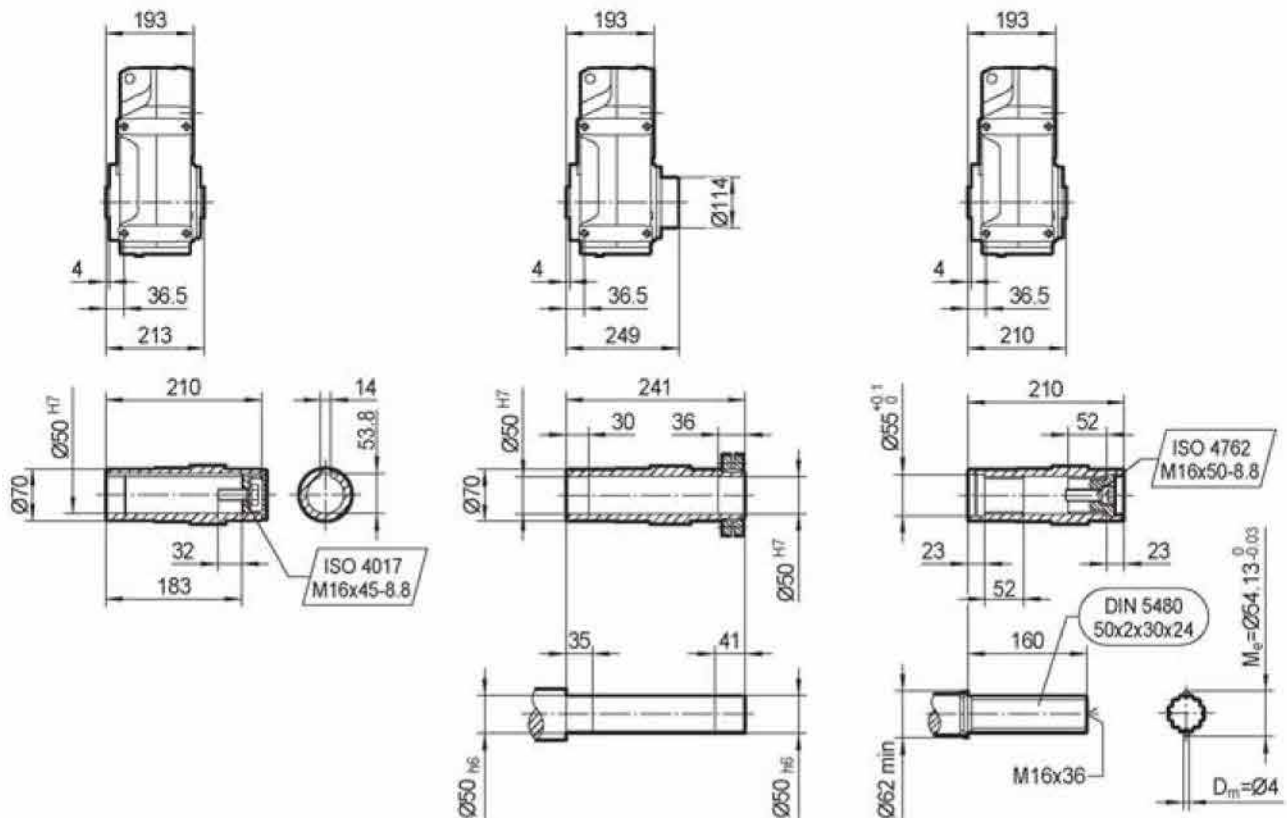
TF78..



TFA78B..

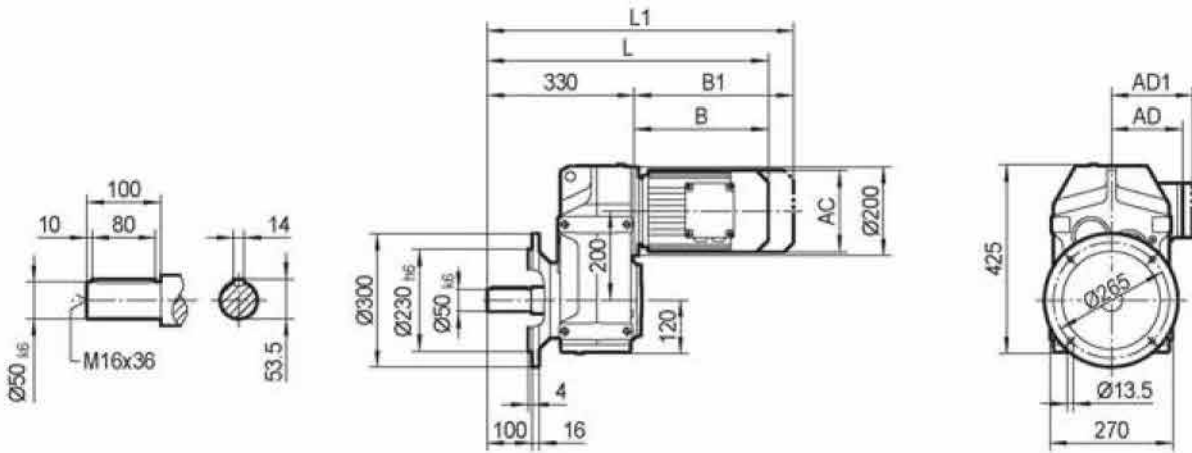
TFH78B..

TFV78B..

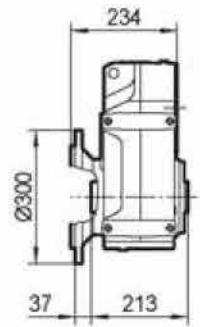


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M
AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	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

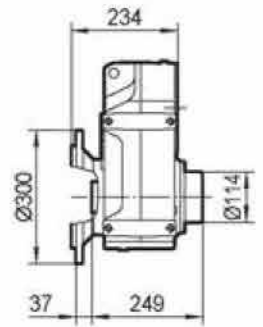
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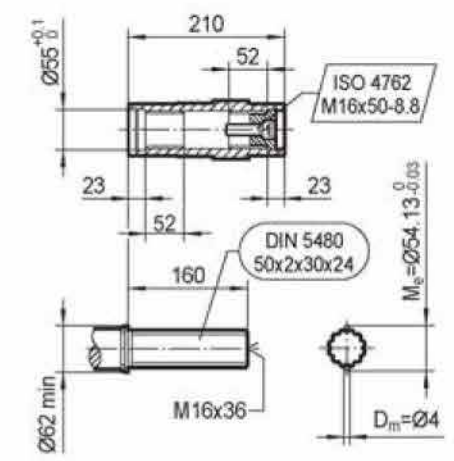
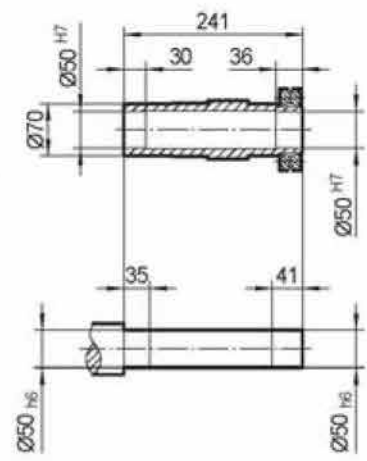
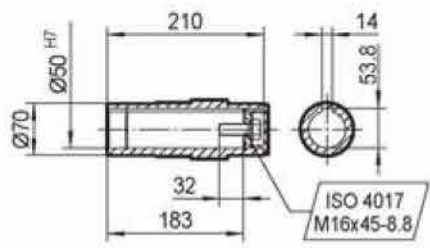
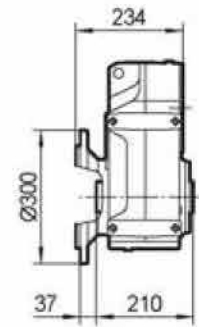
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TFHF78..

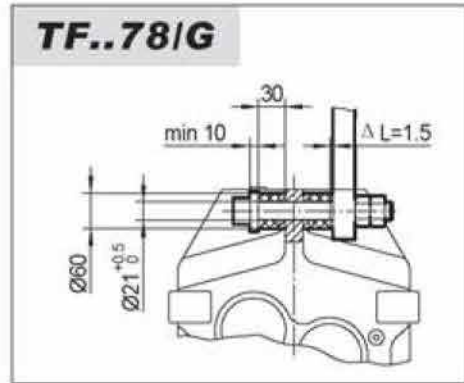
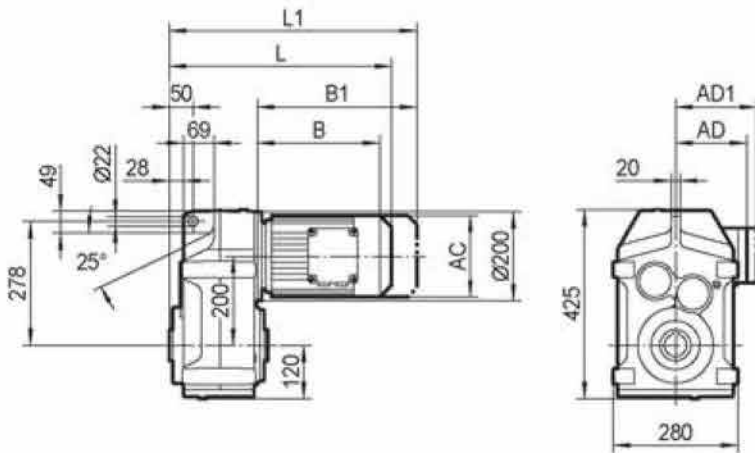


TFVF78..

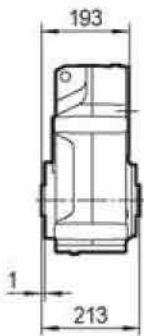


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M
AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	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

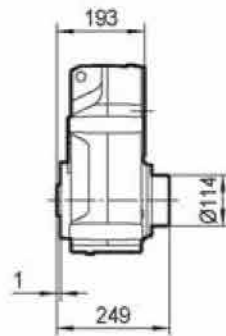
TFA78..



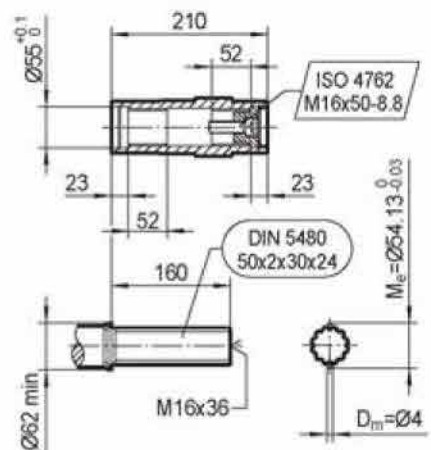
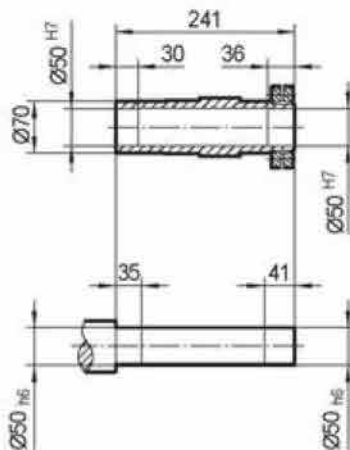
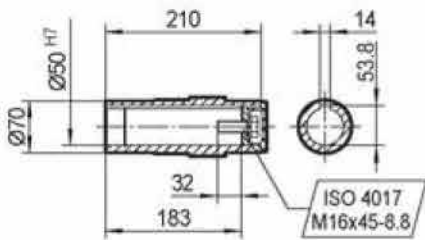
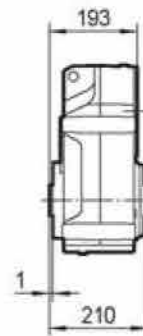
TFA78..



TFH78..

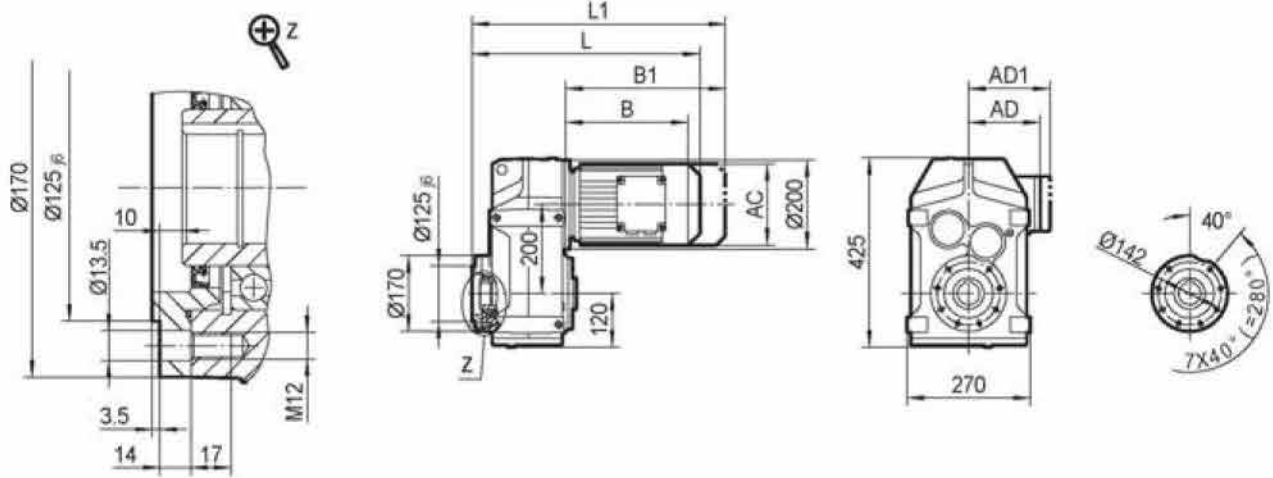


TFV78..

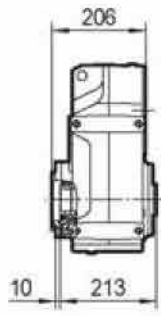


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M
AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	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

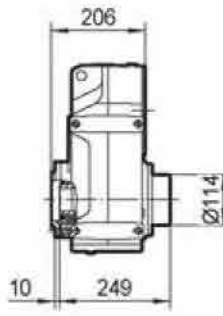
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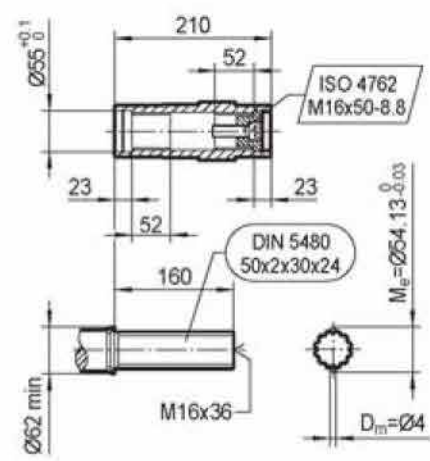
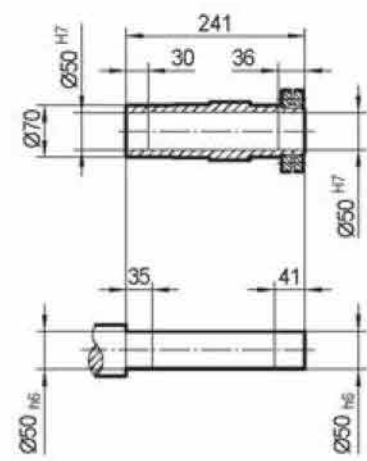
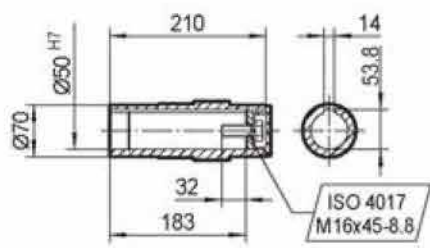
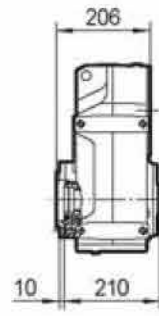
TFAZ78..



TFHZ78..

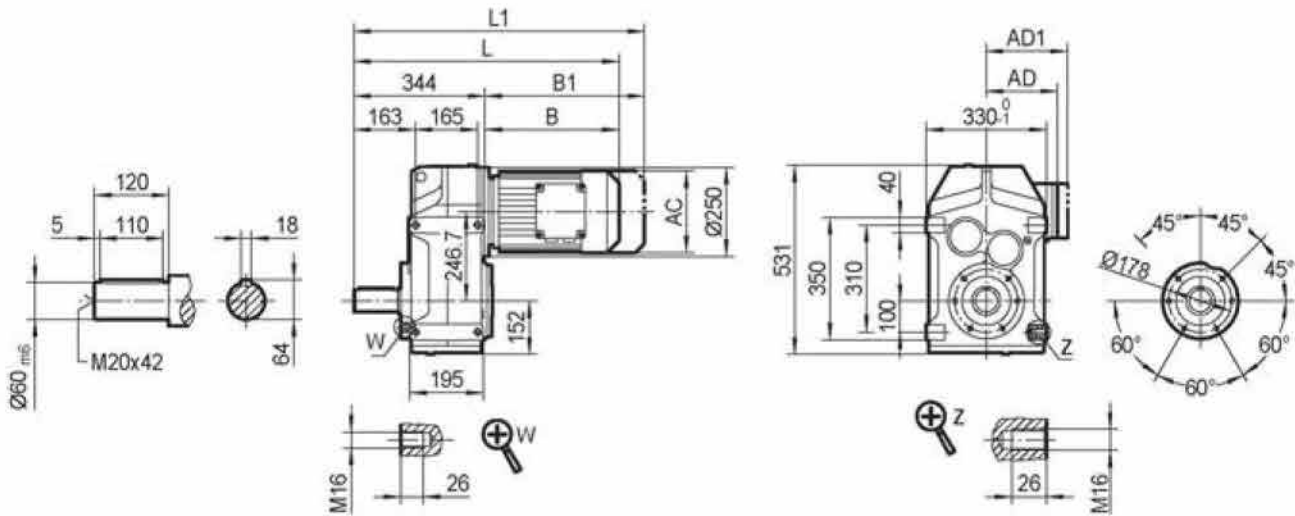


TFVZ78..



	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

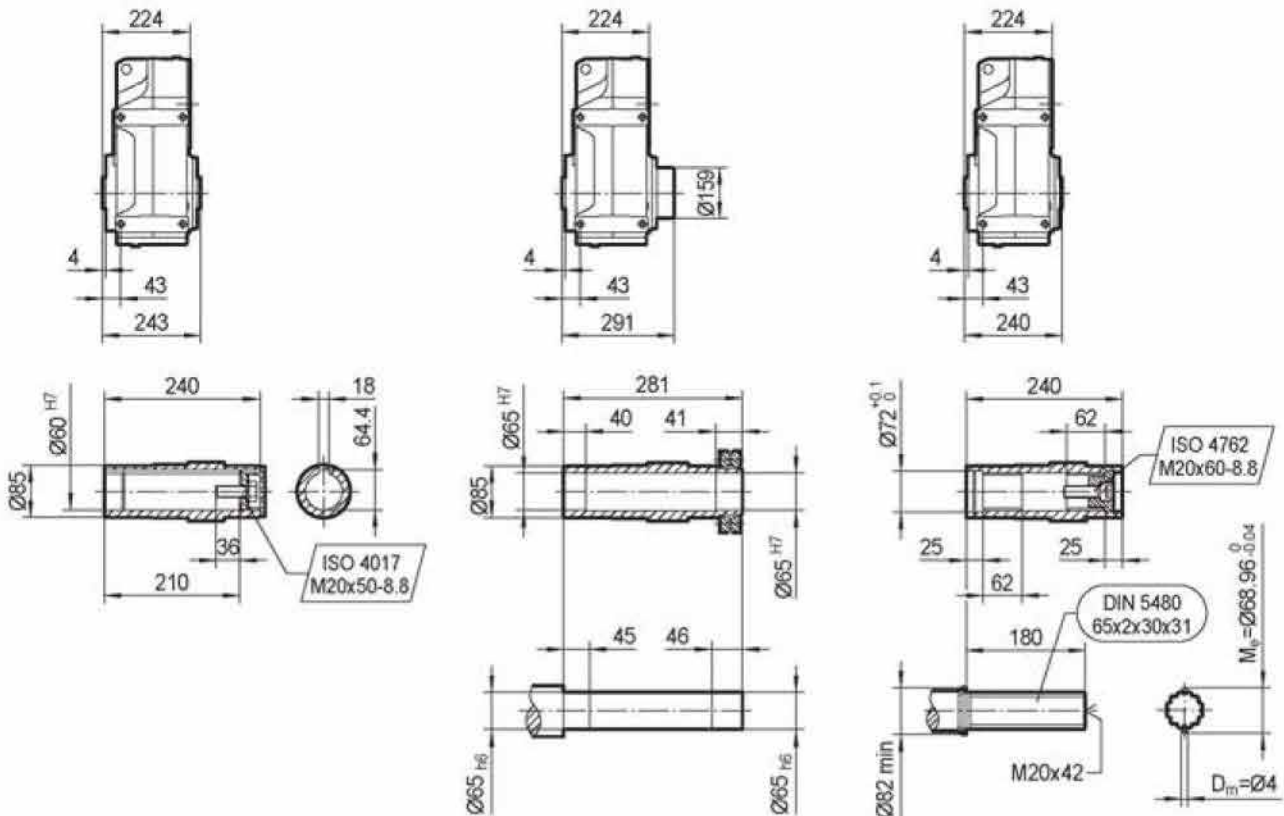
TF88..



TFA88B..

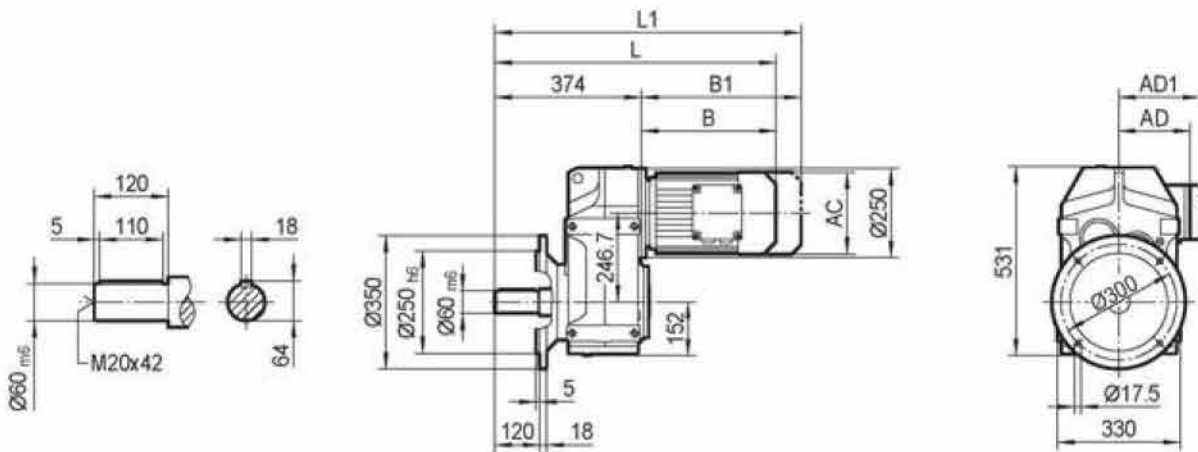
TFH88B..

TFV88B..

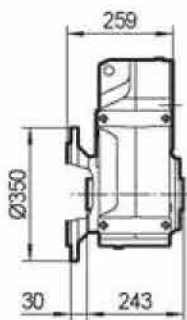


	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	582	601	651	681	684	729	751	811	811	858	930
L1	646	686	736	766	764	809	863	923	923	1014	1086

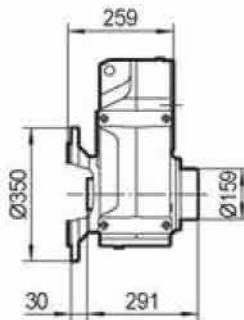
TFF88..



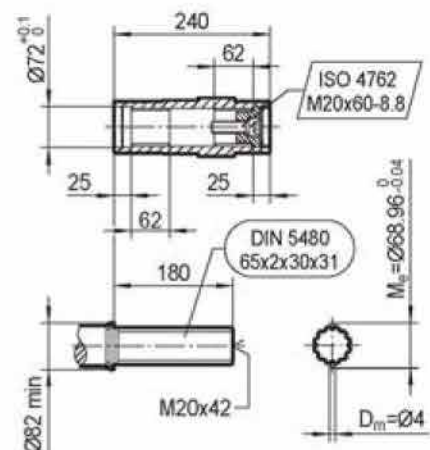
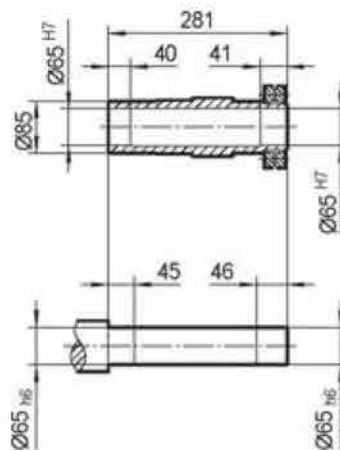
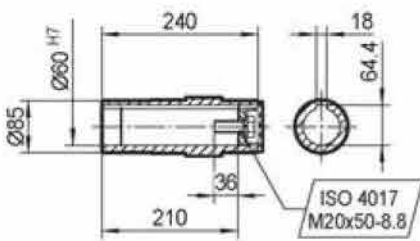
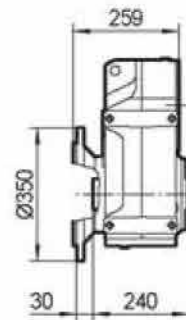
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TFHF88..

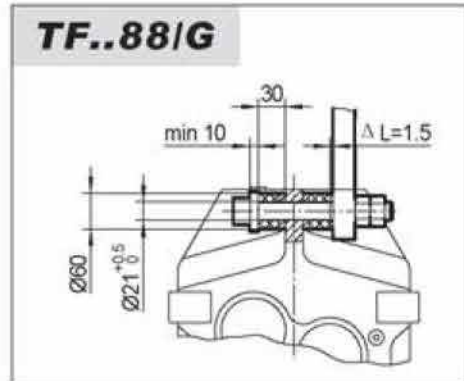
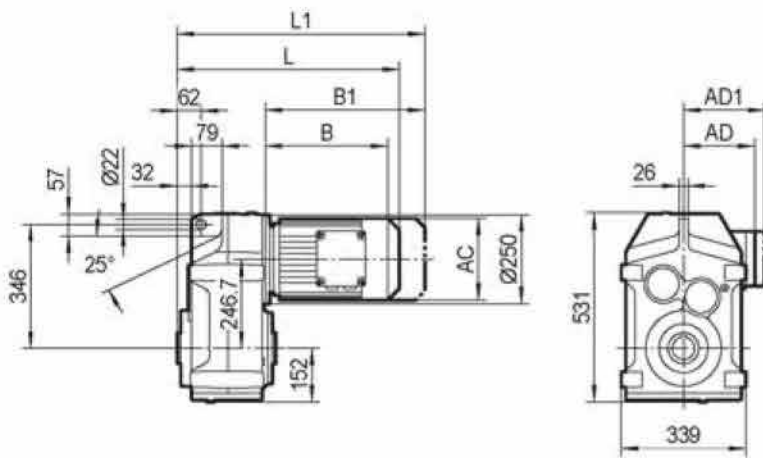


TFVF88..

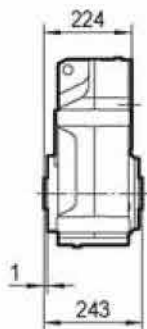


	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	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

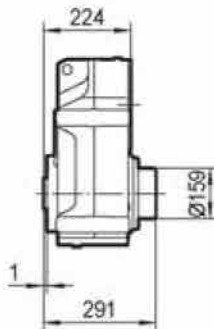
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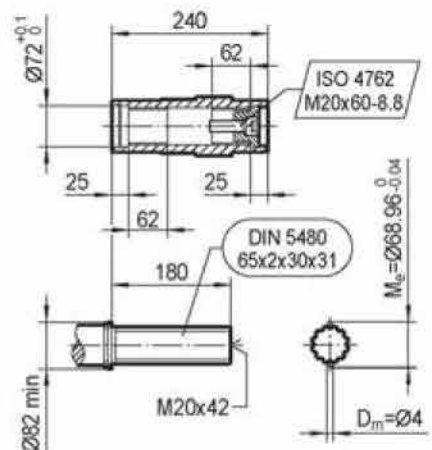
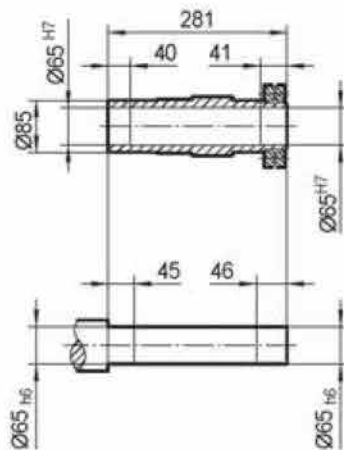
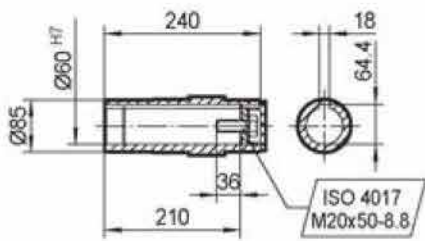
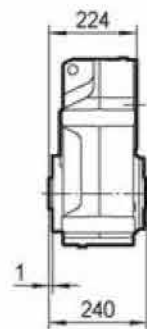
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TFH88..

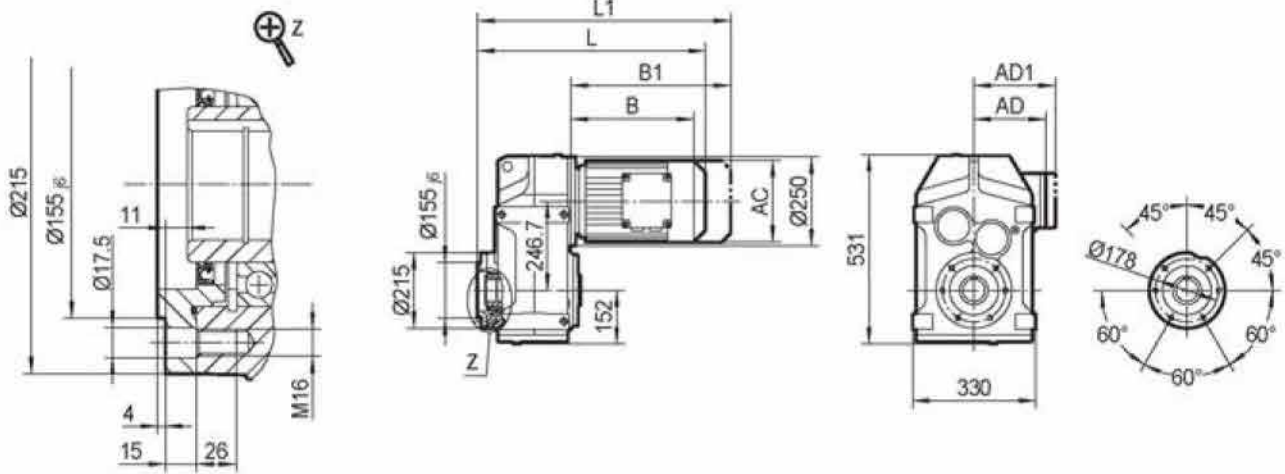


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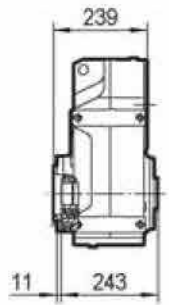


	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	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

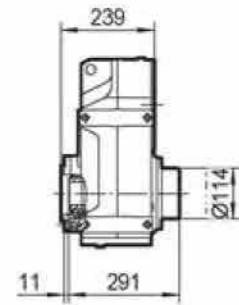
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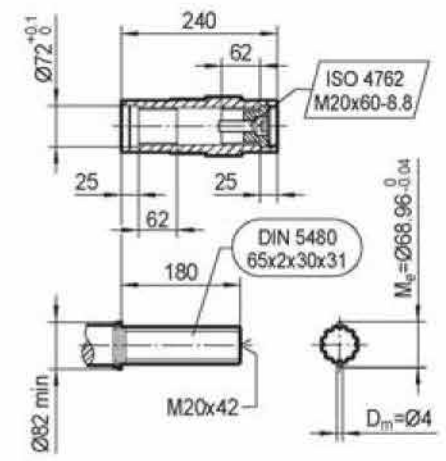
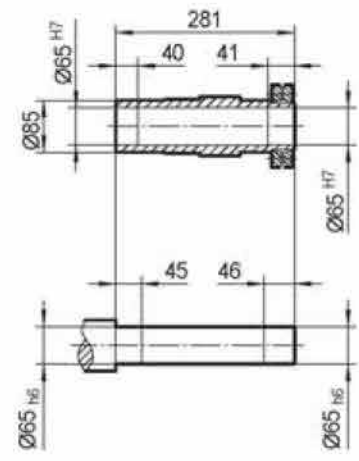
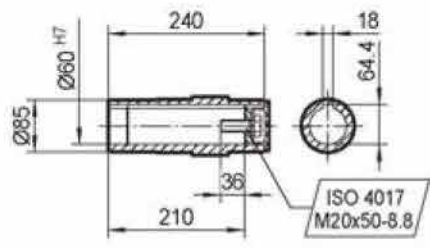
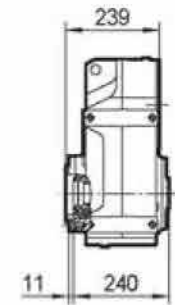
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TFHZ88..

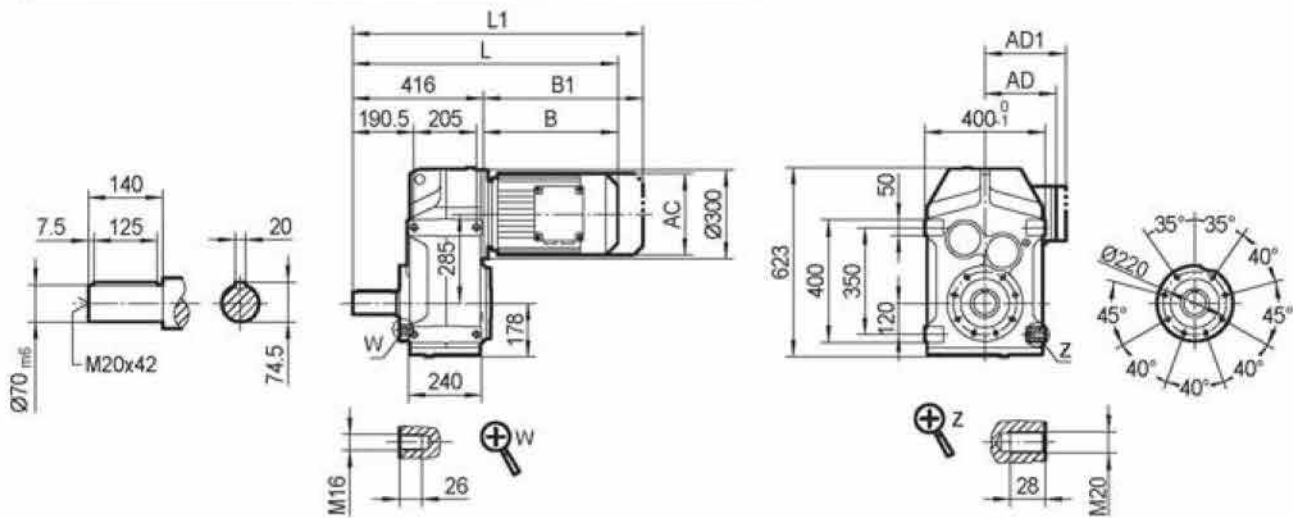


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	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	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

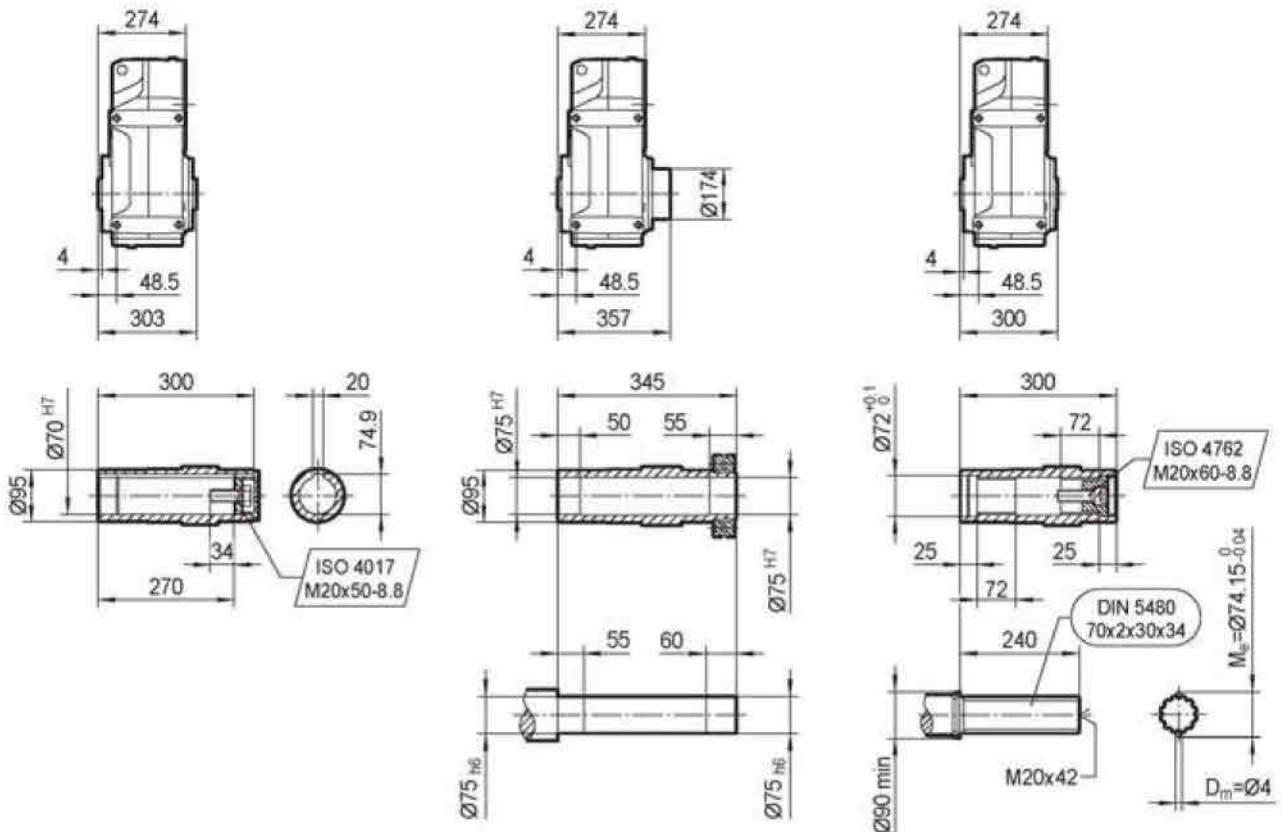
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TFA98B..

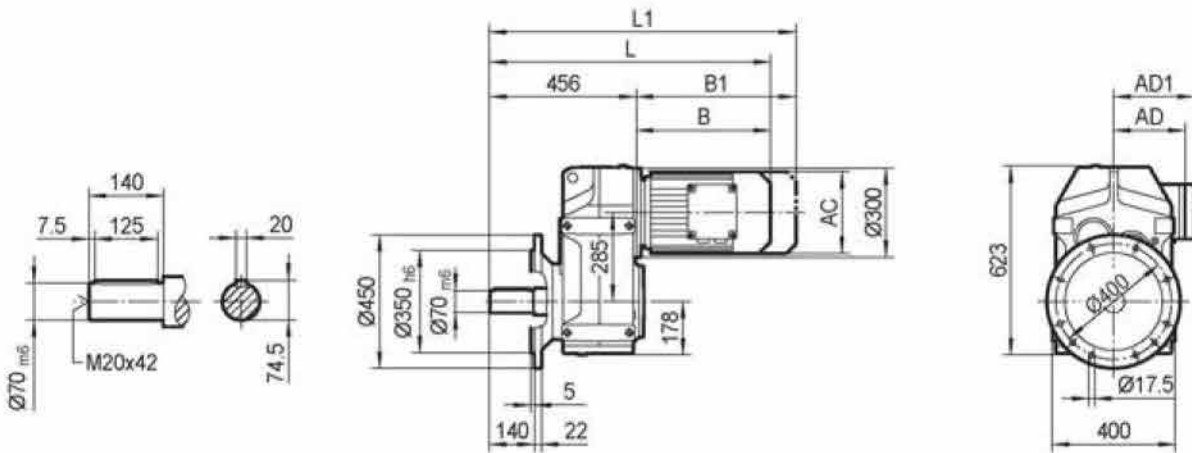
TFH98B..

TFV98B..

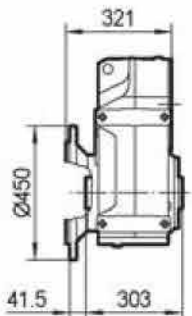


	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..
AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	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

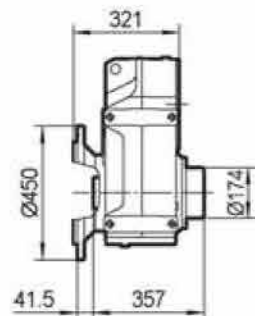
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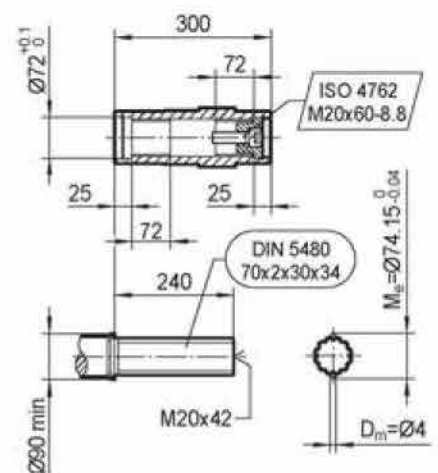
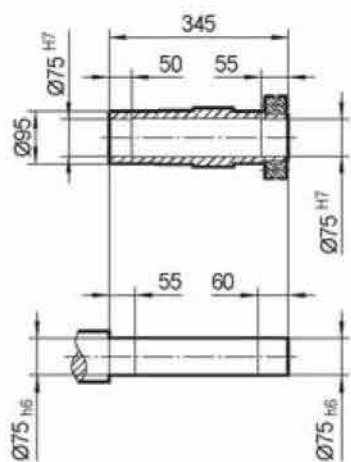
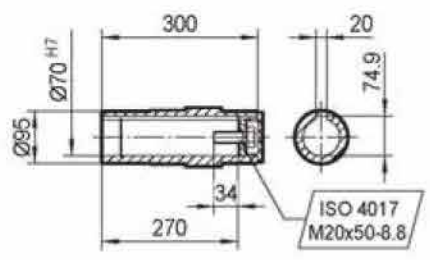
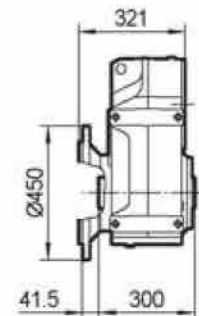
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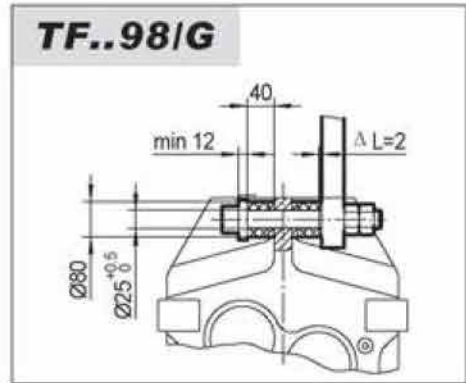
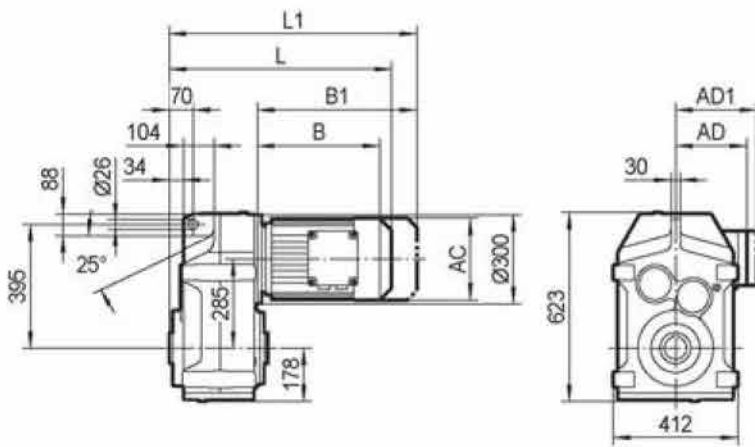


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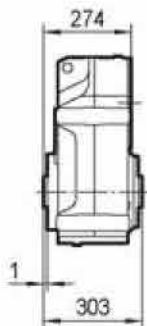


	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..
AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	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

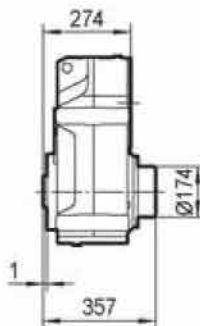
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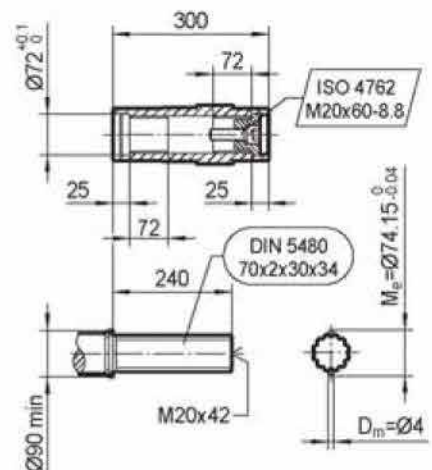
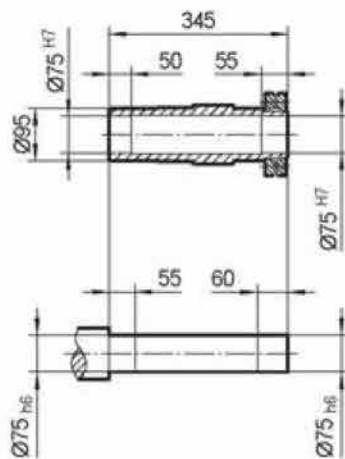
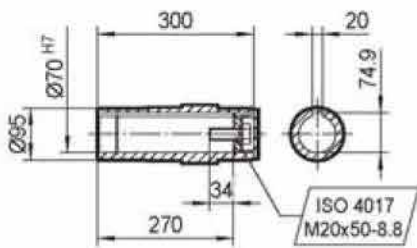
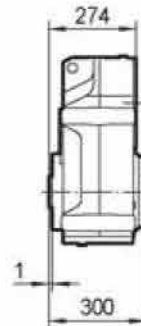
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TFH98..

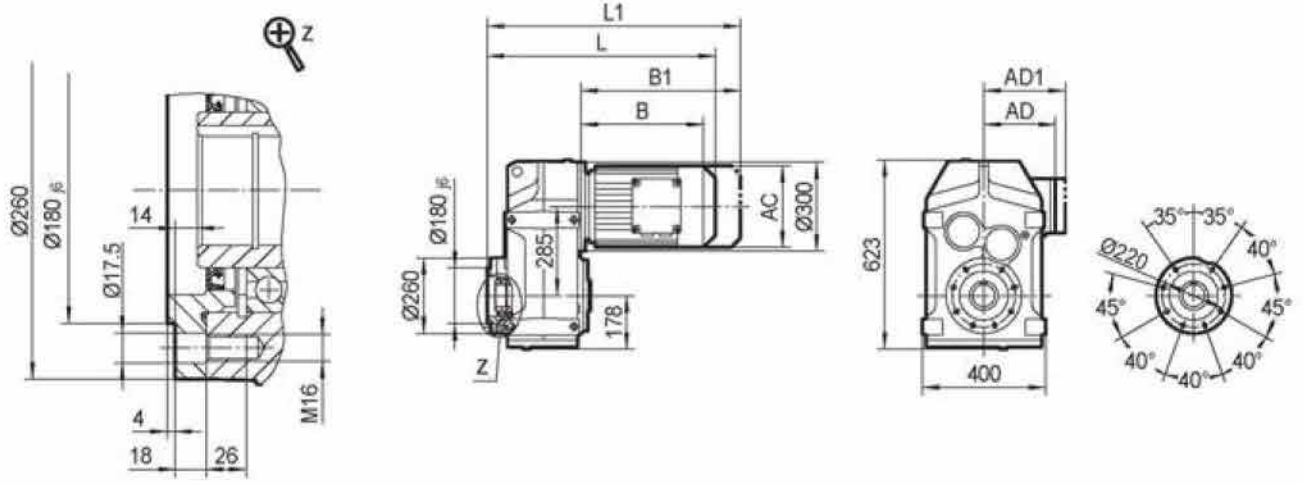


TFV98..

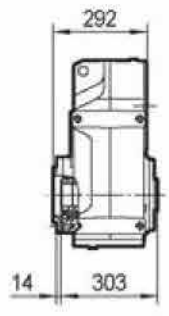


	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..
AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	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

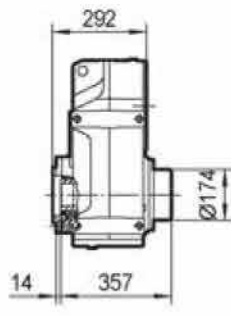
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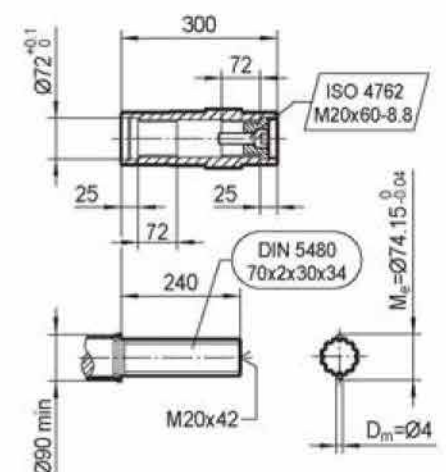
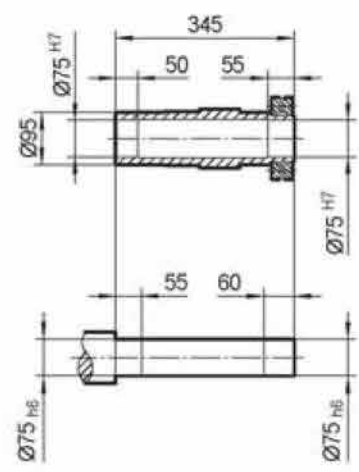
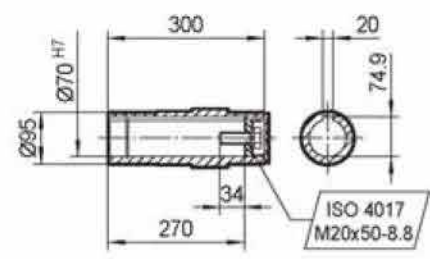
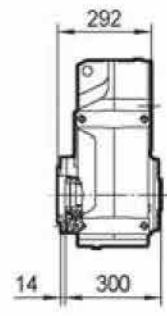
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TFHZ98..

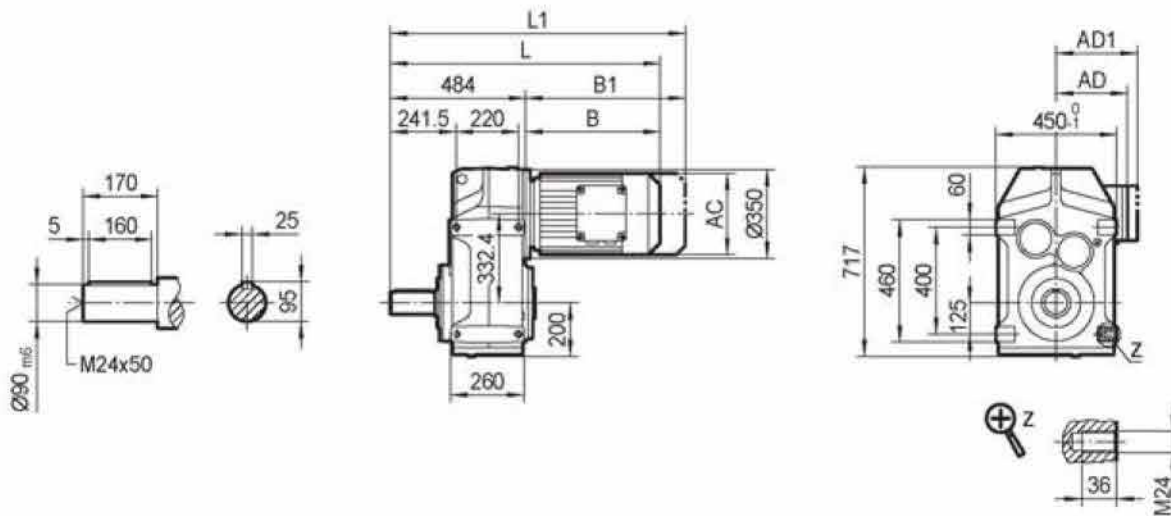


TFVZ98..



	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

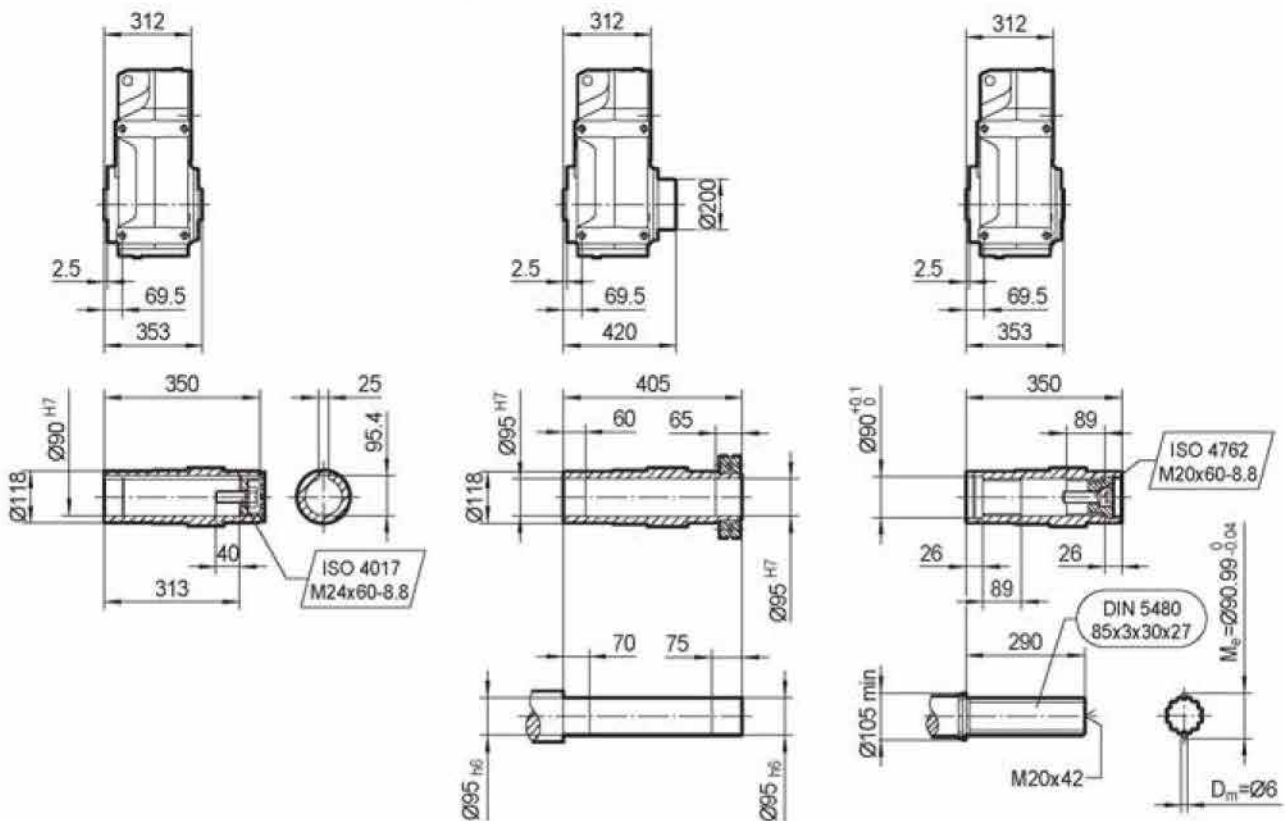
TF108..



TFA108B..

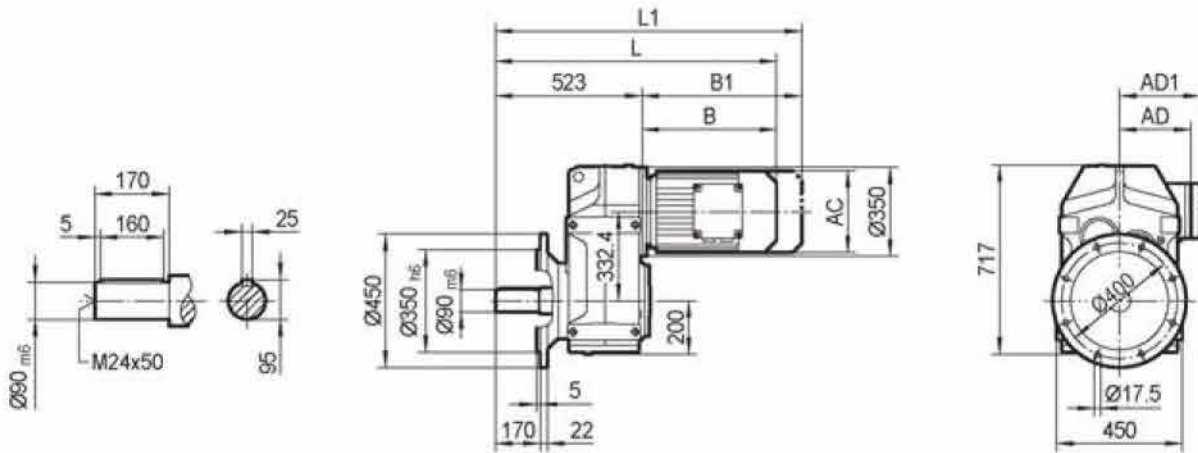
TFH108B..

TFV108B..

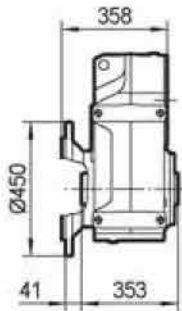


	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..
AC	197	197	221	221	275	275	275	331	331	394	394
AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	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

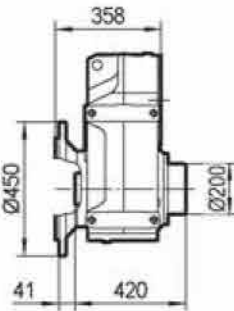
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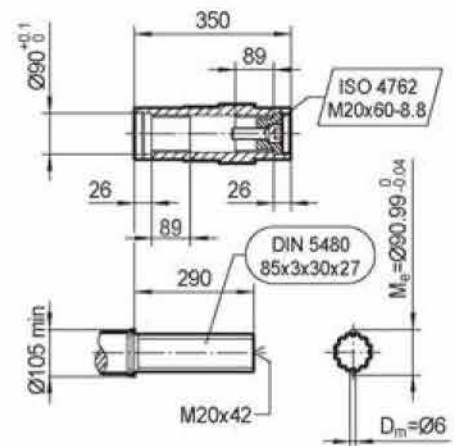
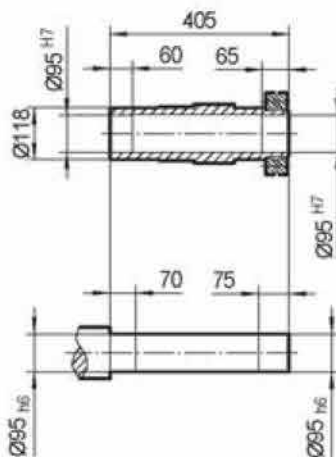
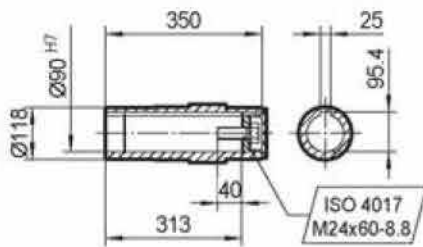
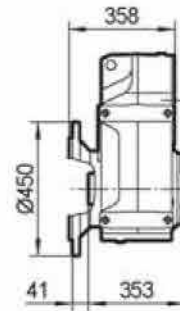
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TFHF108..

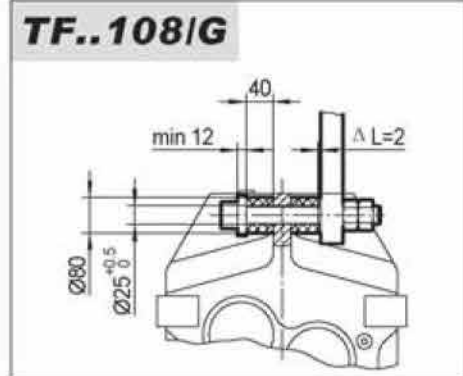
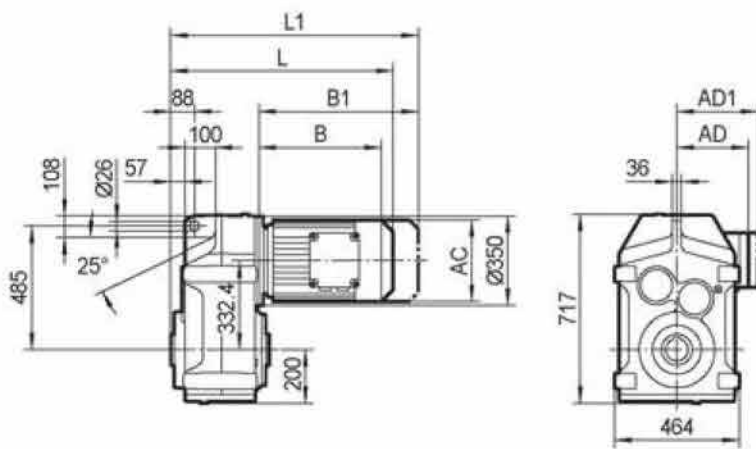


TFVF108..



	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

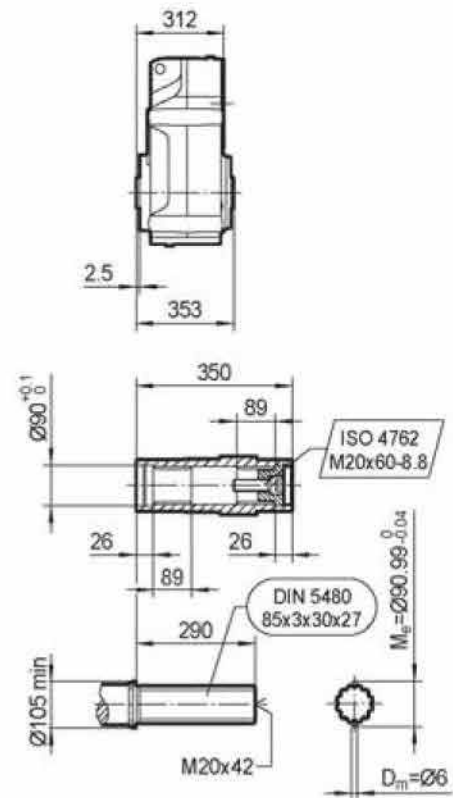
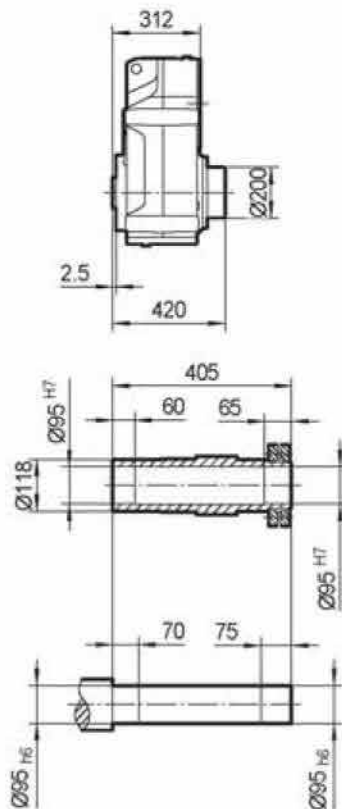
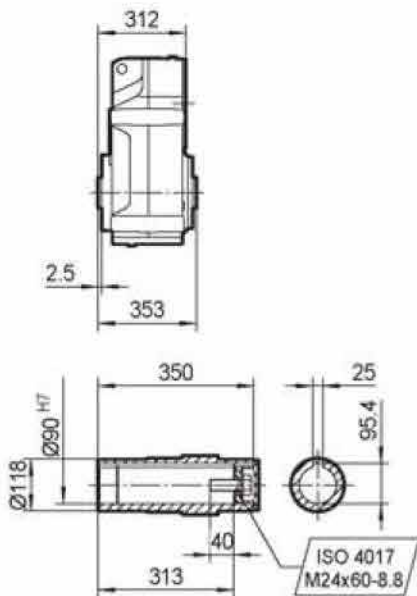
TFA108..



TFA108..

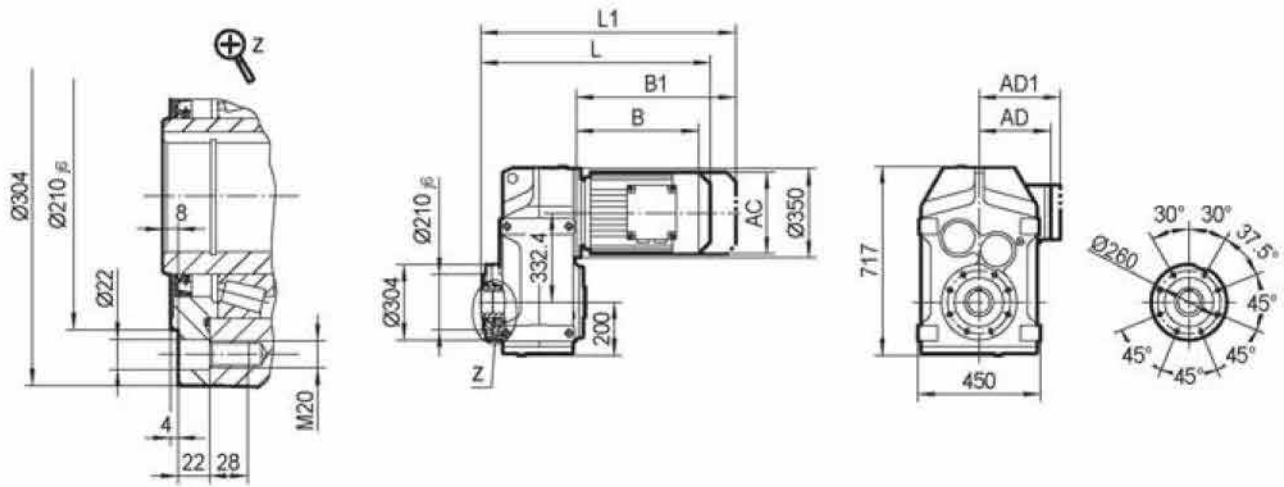
TFH108..

TFV108..

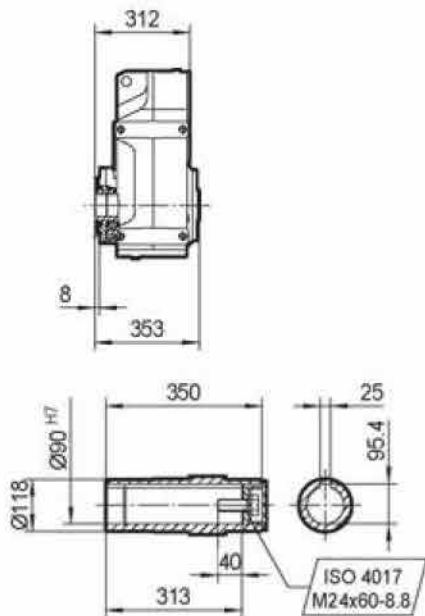


	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..
AC	197	197	221	221	275	275	275	331	331	394	394
AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	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

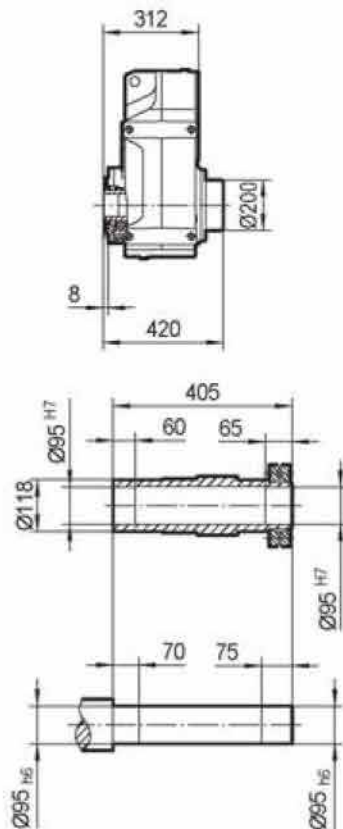
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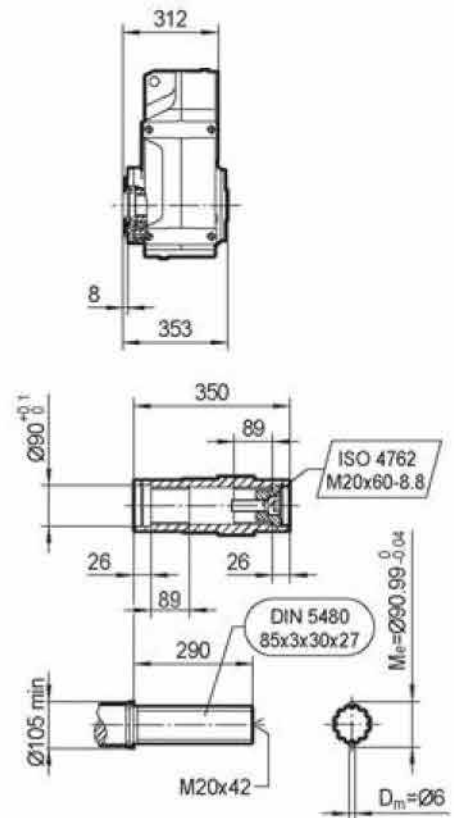
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TFHZ108..

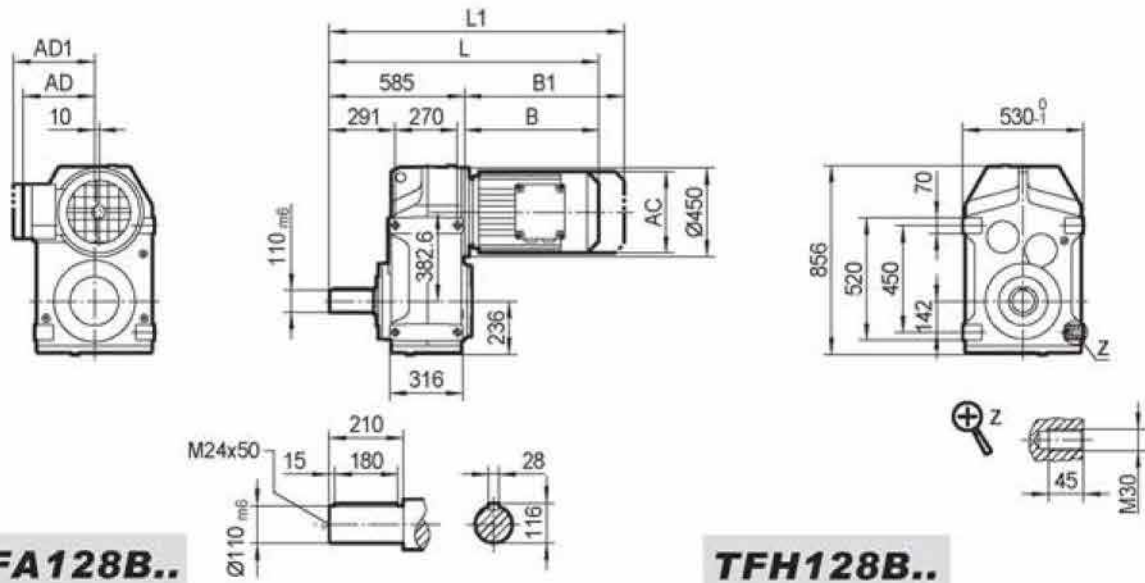


TFVZ108..

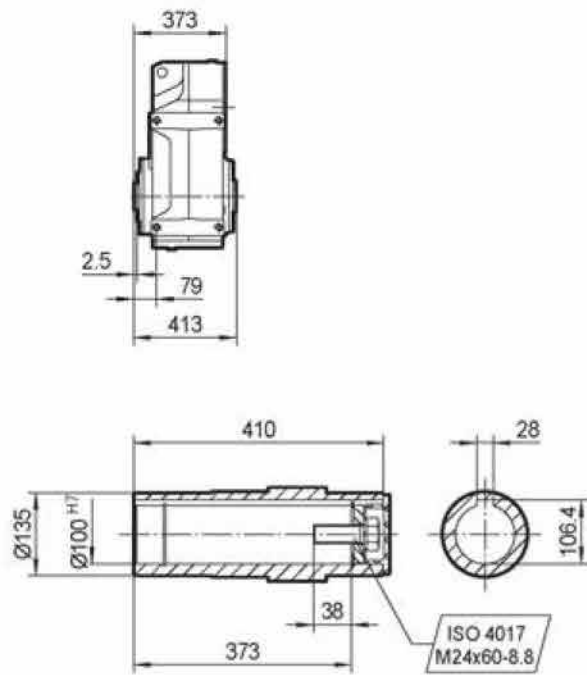


	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..
AC	197	197	221	221	275	275	275	331	331	394	394
AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	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

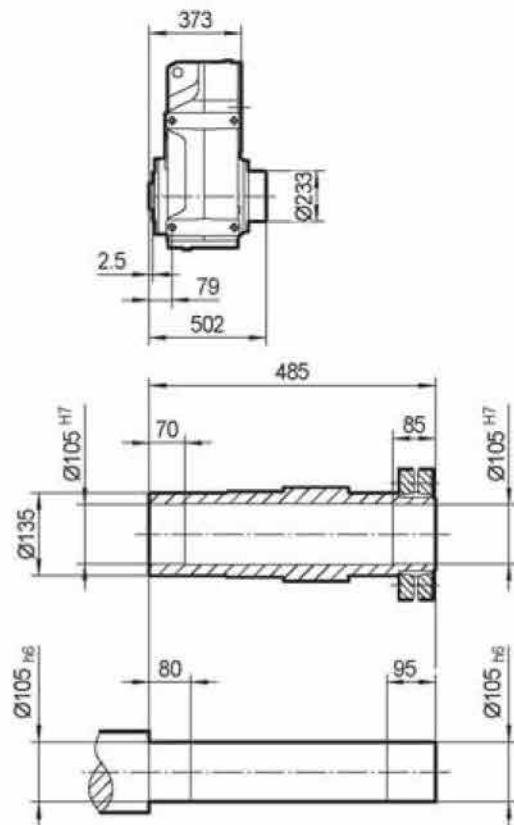
TF128..



TFA128B..

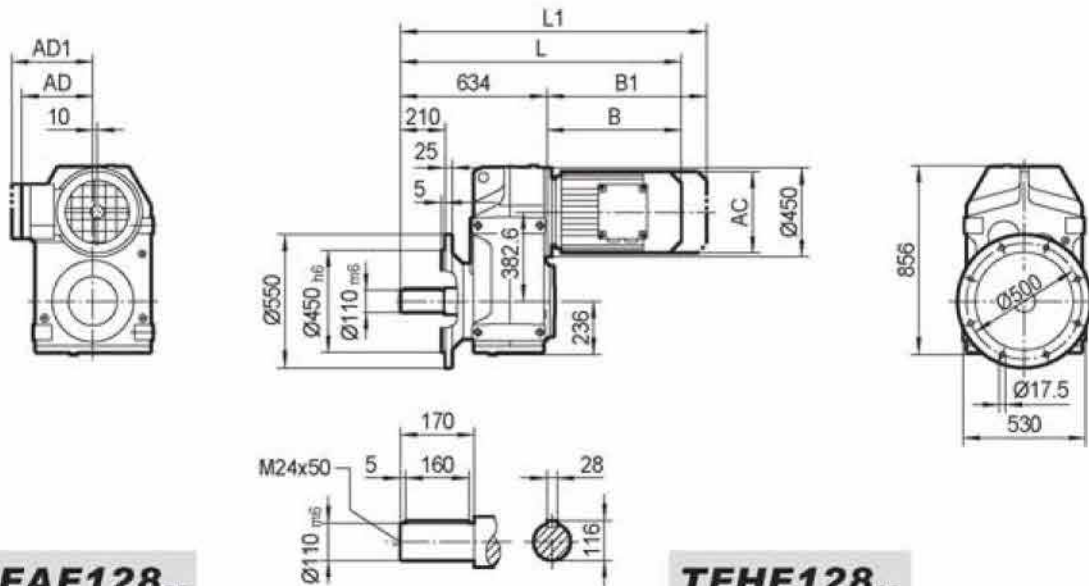


TFH128B..



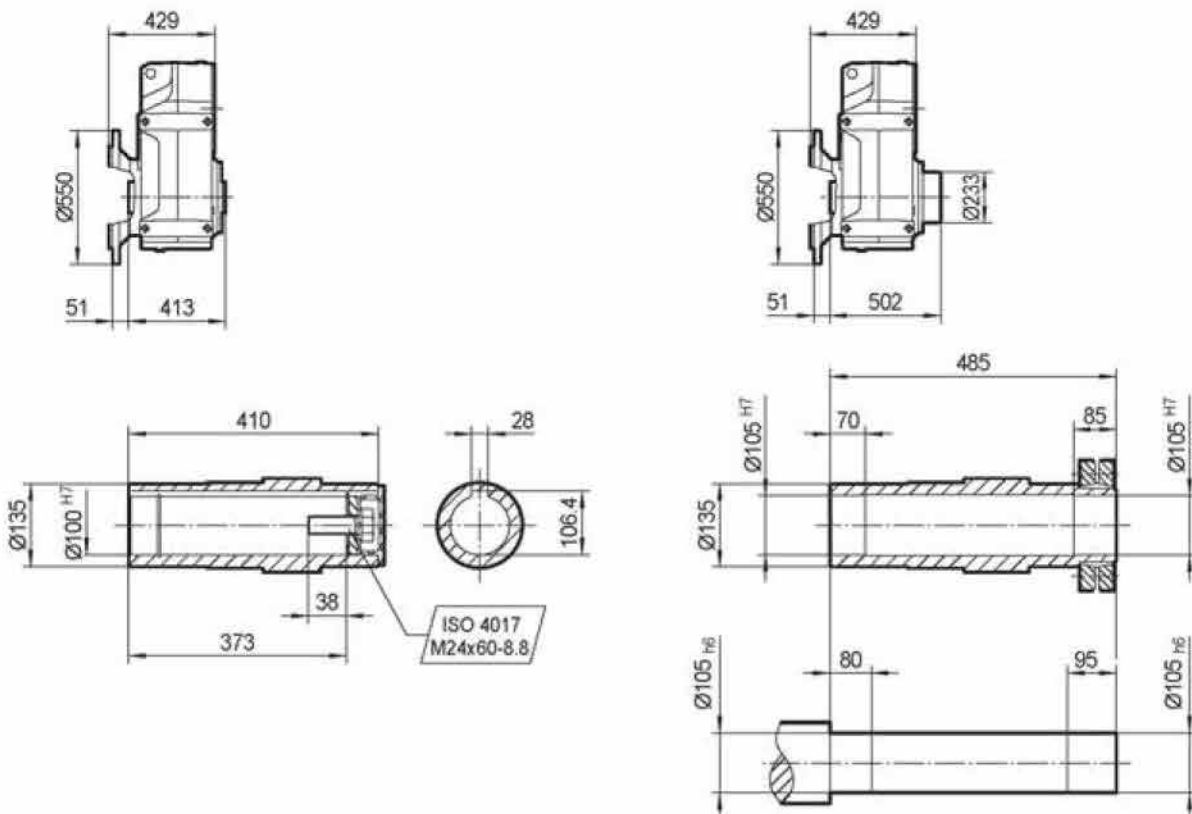
	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	966	1026	1026	1073	1145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

TFF128..



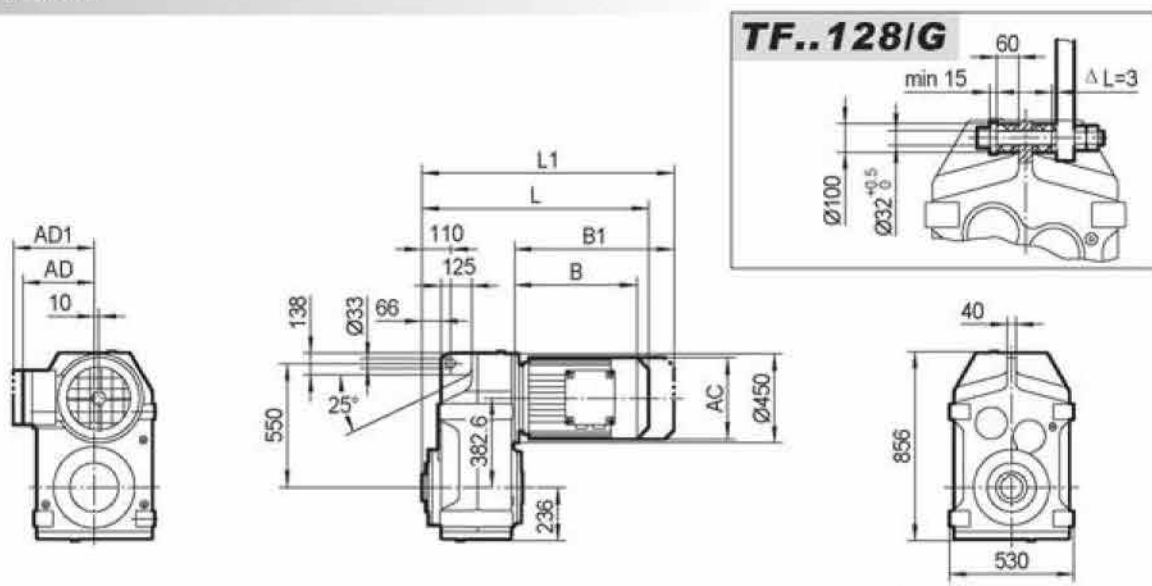
TFAF128..

TFHF128..

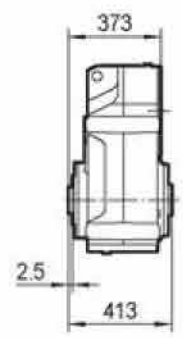


	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	1015	1075	1075	1122	1194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

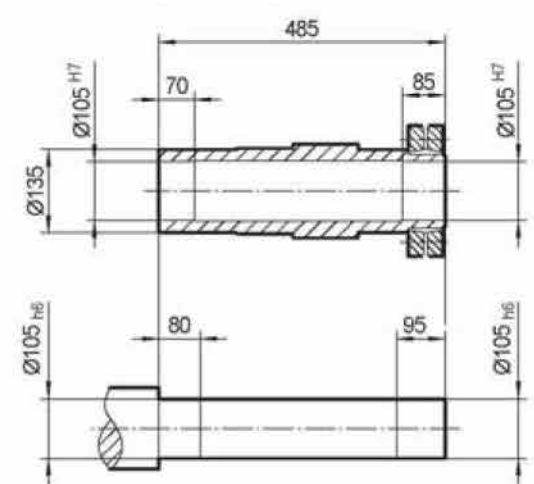
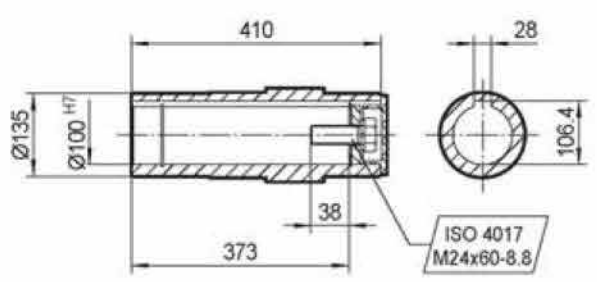
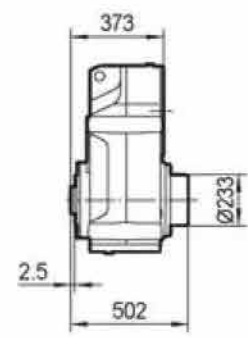
TFA128..



TFA128..

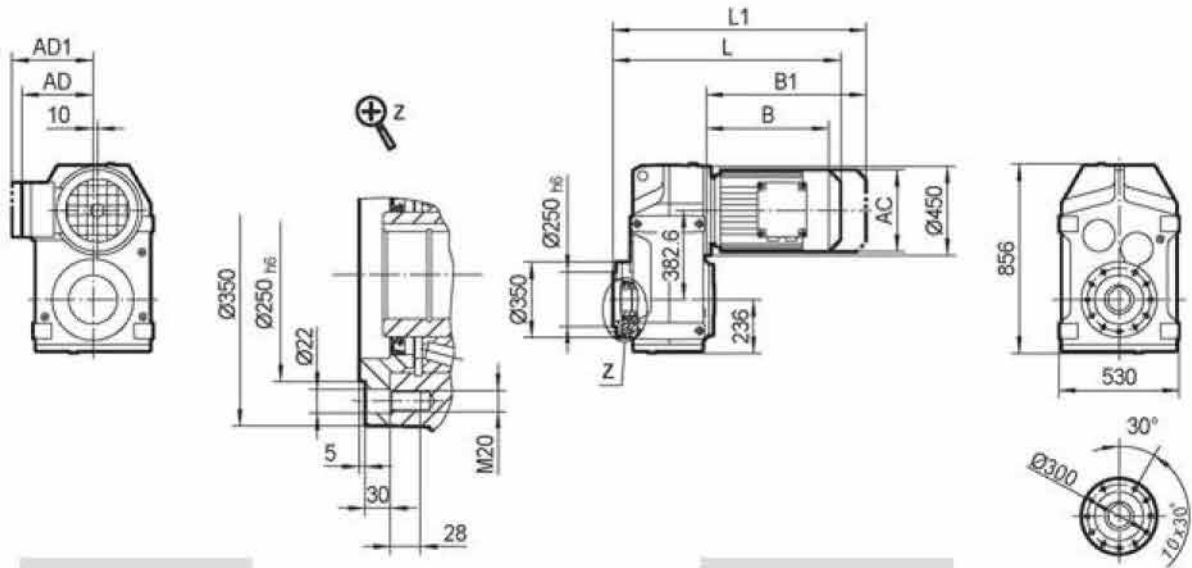


TFH128..

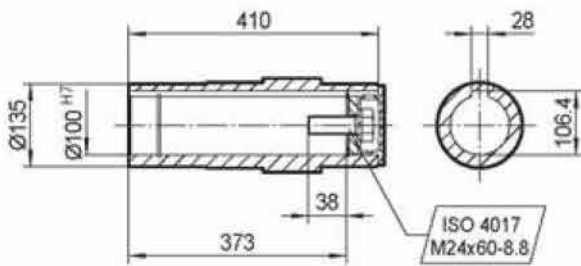
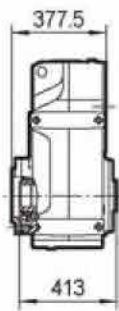


	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	754	814	814	861	933	981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

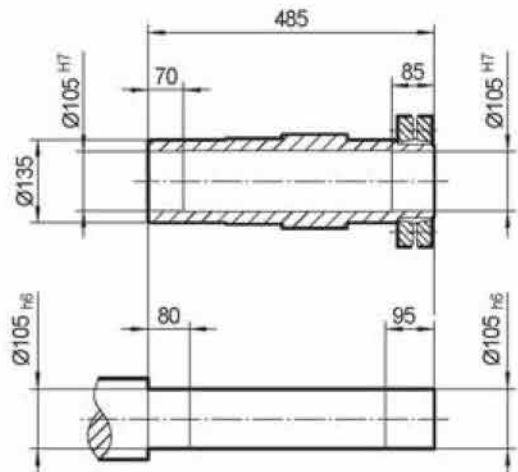
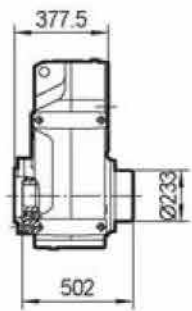
TFZ128..



TFAZ128..

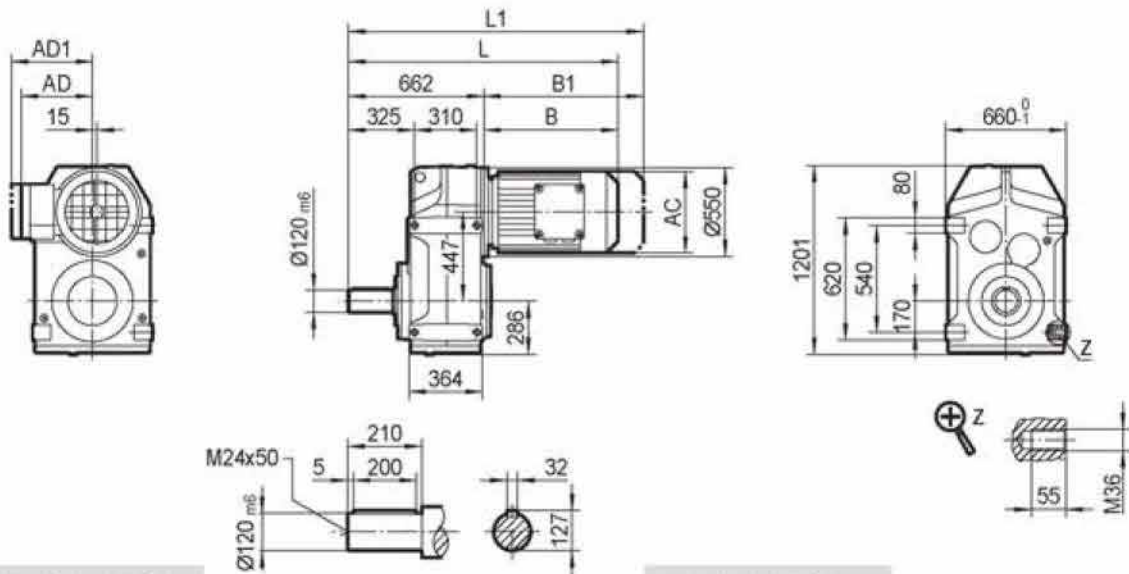


TFHZ128..

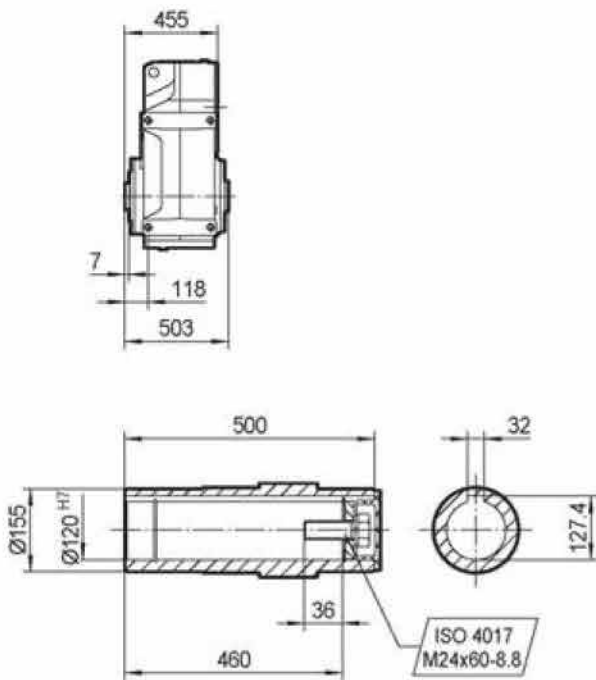


	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	759	819	819	866	938	986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

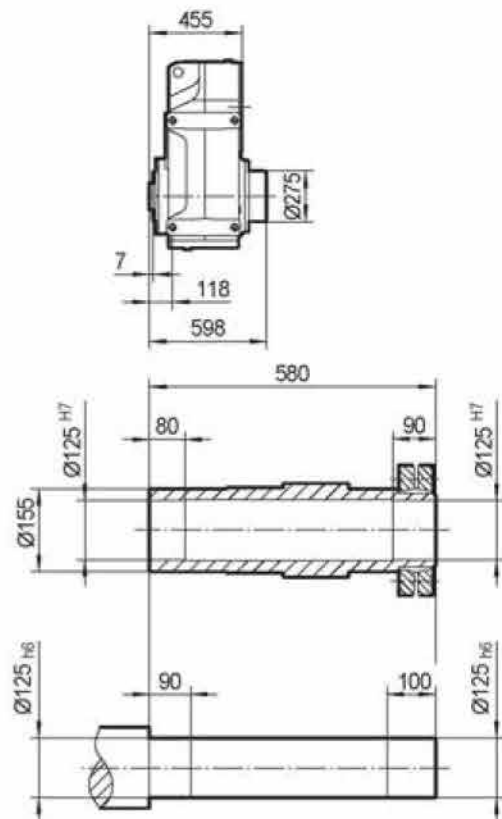
TF158..



TFA158B..

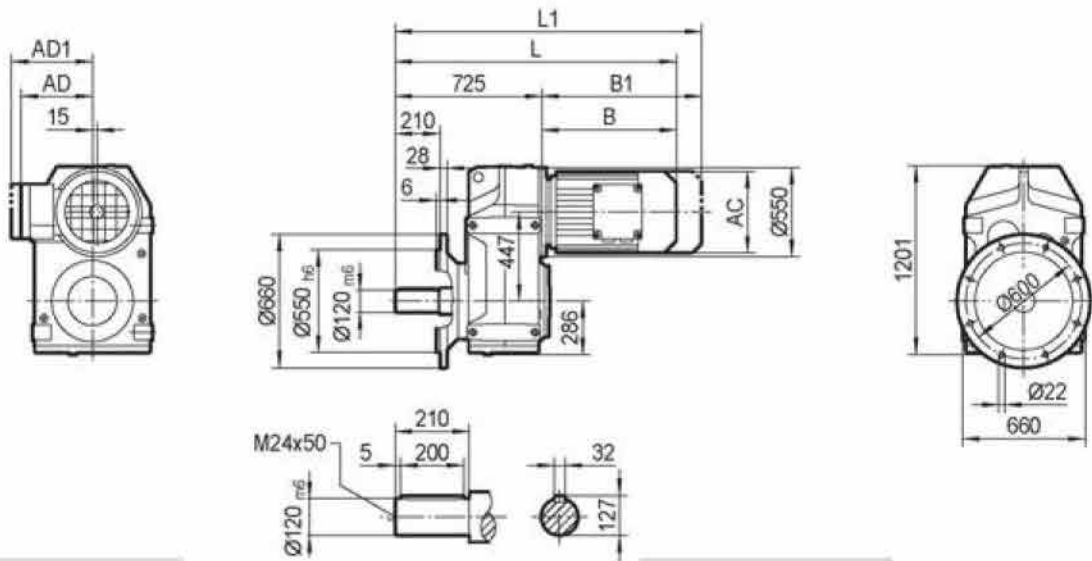


TFH158B..

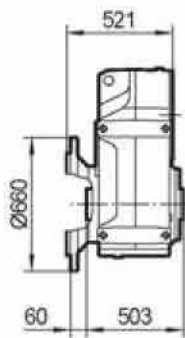


	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..	MY315S	MY315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1095	1142	1214	1262	1344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

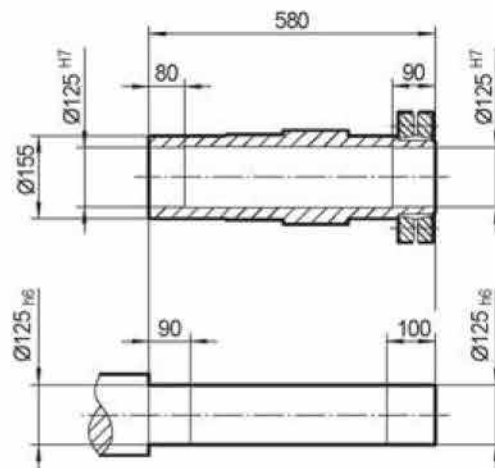
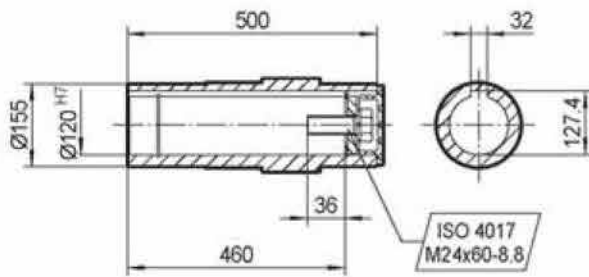
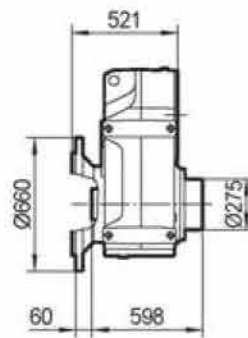
TFF158..



TFAF158..

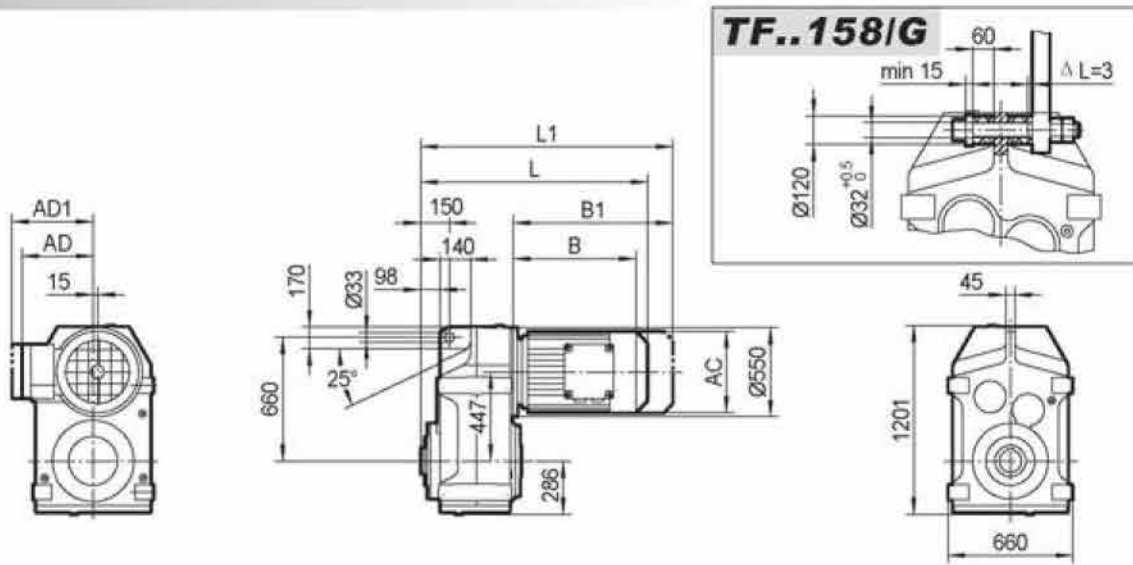


TFHF158..

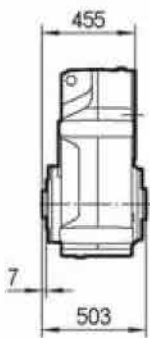


	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..	MY315S	MY315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1158	1205	1277	1325	1407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

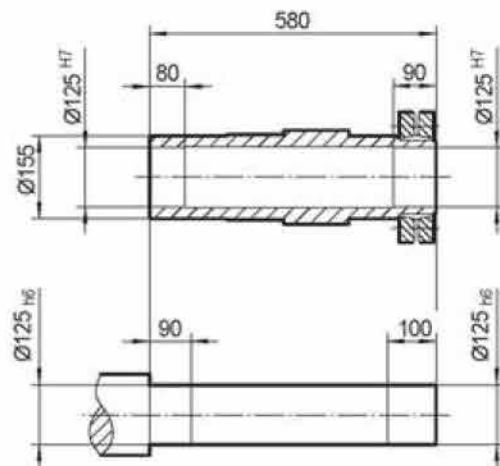
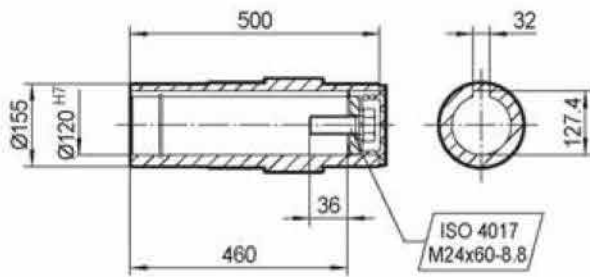
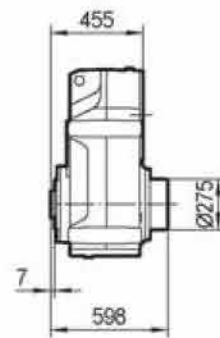
TFA158..



TFA158..

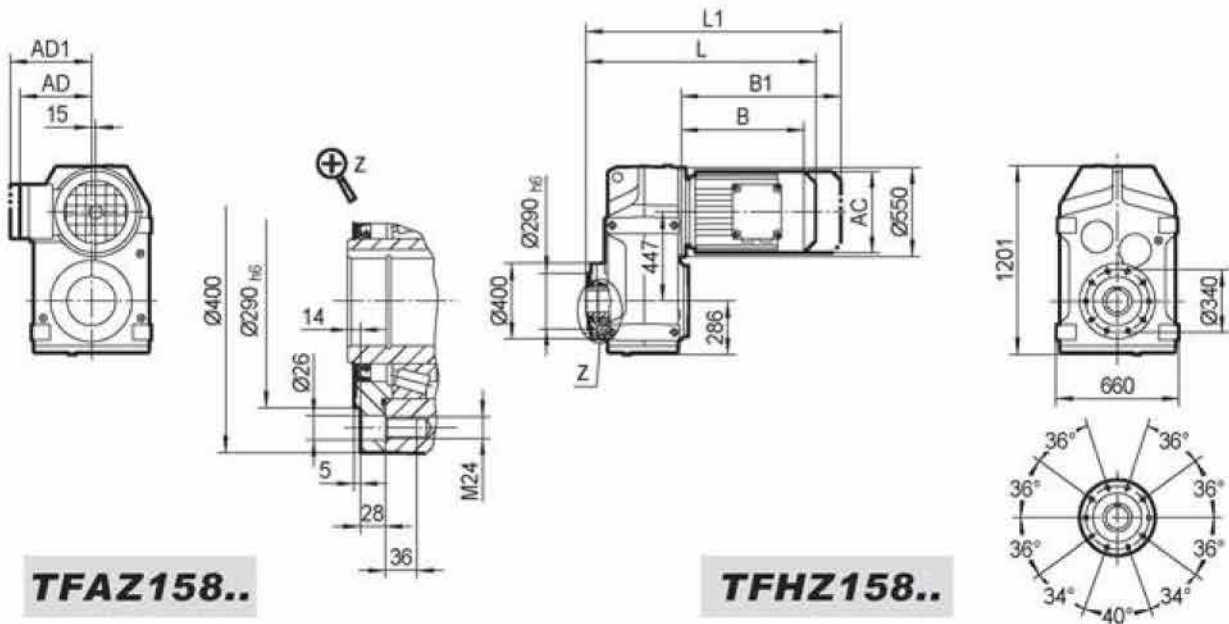


TFH158..



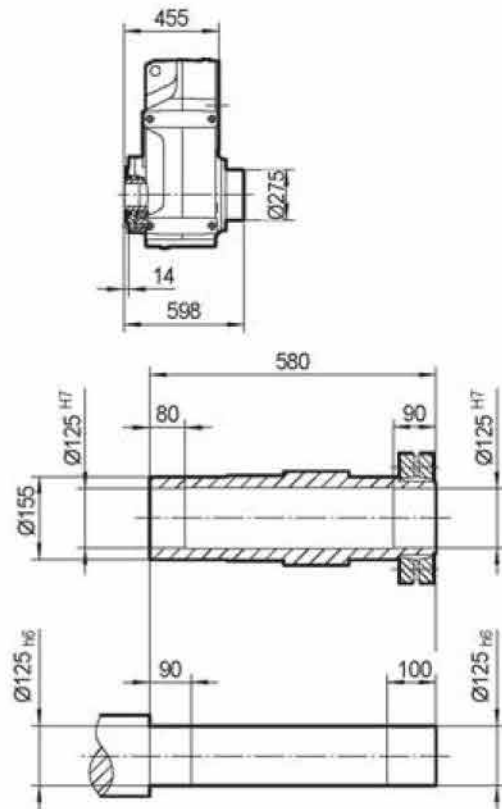
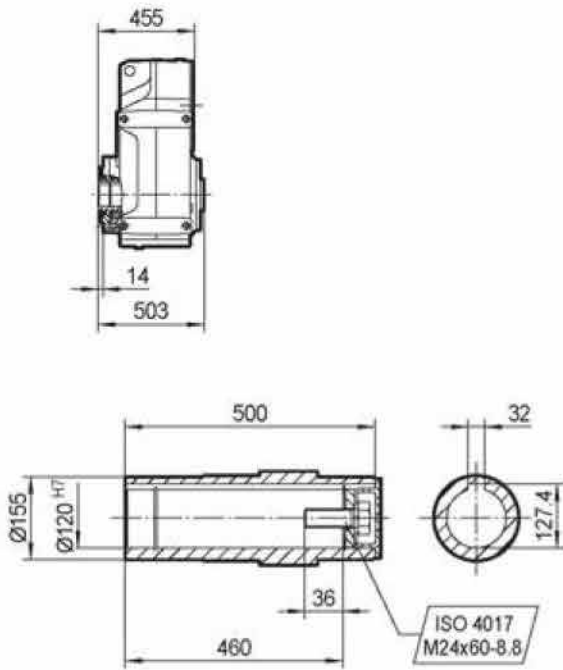
	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..	MY315S	MY315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	888	935	1007	1055	1137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

TFAZ158..



TFAZ158..

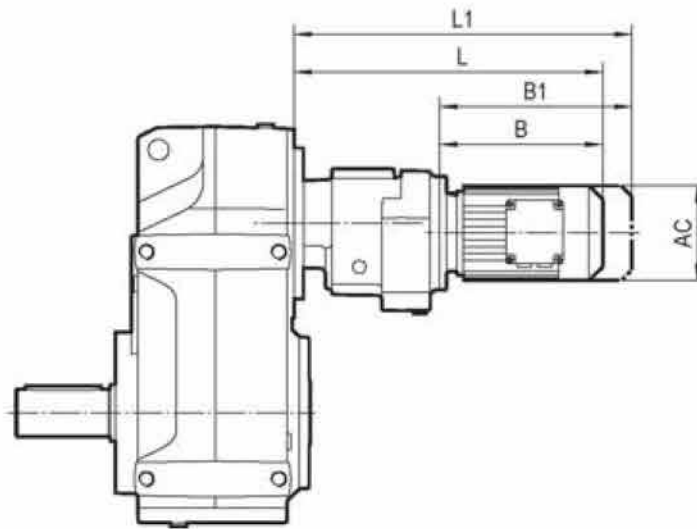
TFHZ158..



	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..



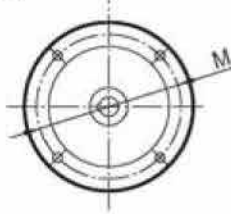
TF../TRF..	MY..	AC	B	B1	L	L1
TF..28/TRF18	MY63..	132	149	204	324	379
TF..38/TRF18	MY71D	145	164	228	339	403
TF..48/TRF18	MY80..	145	214	278	389	453
TF..58/TRF38	MY63..	132	191	246	356	411
	MY71D	145	206	270	371	435
	MY80..	145	256	320	421	485
TF..68/TRF38	MY63..	132	191	246	356	411
	MY71D	145	206	270	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
TF..108/TRF78	MY112M	221	354	434	565	645
	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	

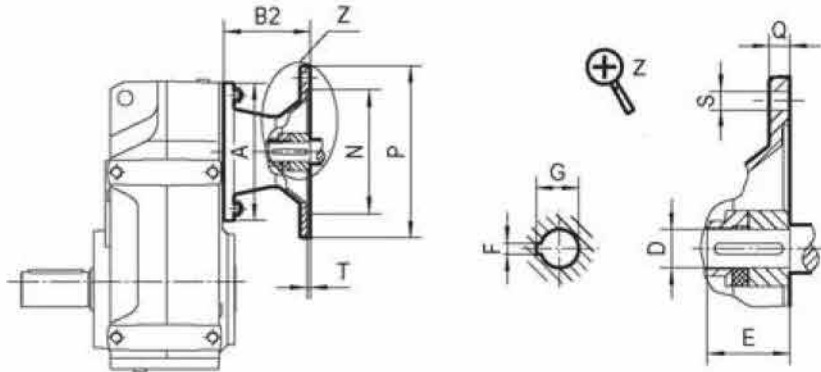
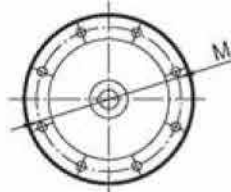
7.3 TF..AM(IEC).. Outline Dimension

TF..AM(IEC)..

Flange.1



Flange.2

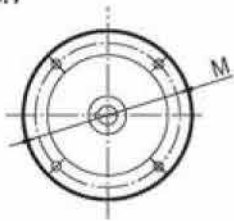


TF..	AM..	Flange.	A	B2	D	E	F	G	M	N	P	Q	S	T					
TF..28 TF..38 TF..48	AM63	1	120	72	11	23	4	12.8	115	95	140	10	4-Ø9	3.5					
	AM71 ¹⁾				14	30	5	16.3							130	110	160		
	AM80 ¹⁾			106	19	40	6	21.8	165	130	200	12	4-Ø11	4.5					
	AM90 ¹⁾				24	50	8	27.3											
TF..58 TF..68	AM63	1	160	66	11	23	4	12.8	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						

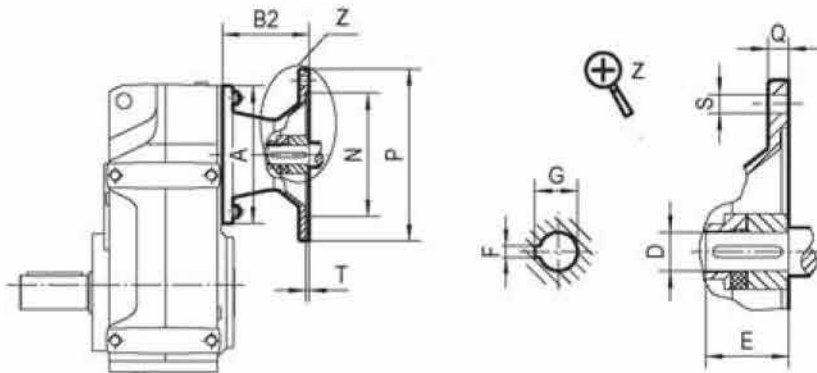
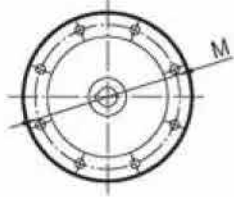
1) Dimension P/2 may protrude past foot mounting surface, please check.

TF..AM(IEC)..

Flange.1



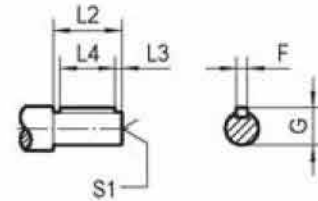
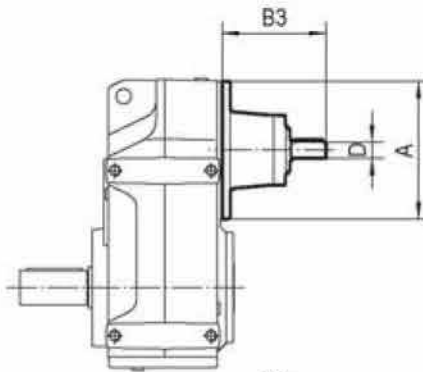
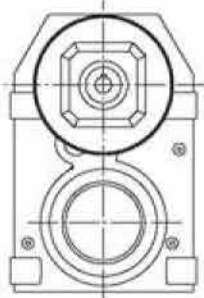
Flange.2



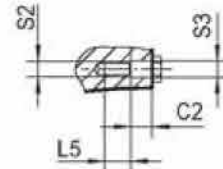
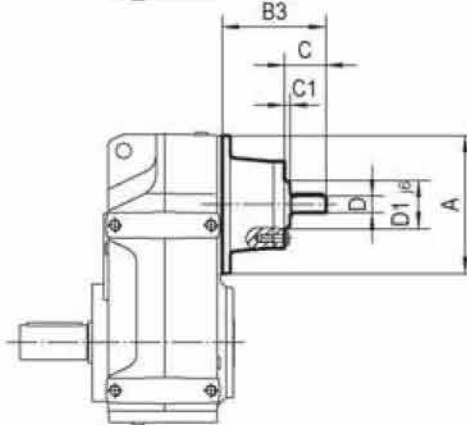
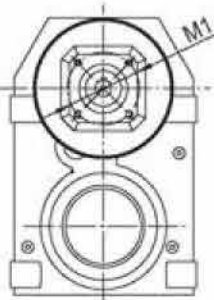
TF..	AM..	Flange.	A	B2	D	E	F	G	M	N	P	Q	S	T
TF..98	AM100	1	300	116	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
	AM112													
	AM132S/M													
	AM132ML			110	42	80	10	41.3	265	230	300	16	4-Ø17.5	6
	AM160													
	AM180													
	AM200													
TF..108	AM100	1	350	110	28	60	8	31.3	215	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	277	60	140	18	64.4	400	350	450	22	8-Ø17.5	7	
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	16	4-Ø17.5	6
	AM200													
	AM225													
	AM250													
AM280	2	336	65	140	18	69.4	500	450	550	25	8-Ø17.5	7		
TF..158	AM160	1	550	198	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
	AM180													
	AM200													
	AM225	2		254	60	140	18	64.4	400	350	450	22	8-Ø17.5	7
	AM250													
	AM280													

7.4 TF..AD.. Outline Dimension

TF..AD..



TF..AD../ZR

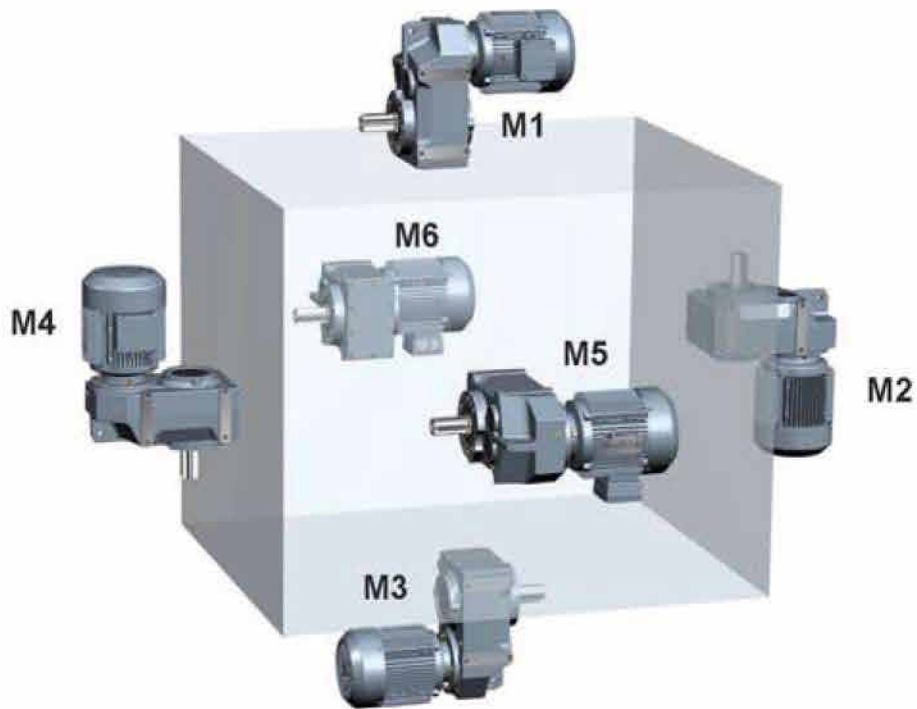


TF..	AD..	A	B3	C	C1	C2	D	D1	F	G	L2	L3	L4	L5	M1	S1	S2	S3
TF..28	AD1	120	102	-	-	-	16	-	5	18	40	4	32	-	-	M5X12.5	-	-
TF..38	AD2, AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	M8	9
TF..48			159	60	8	15.5	24	70	8	27	50	5	40	16	105	M8X19	M10	11
TF..58	AD2, AD2/ZR	160	123	50	8	13.5	19	55	6	21.5	40	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

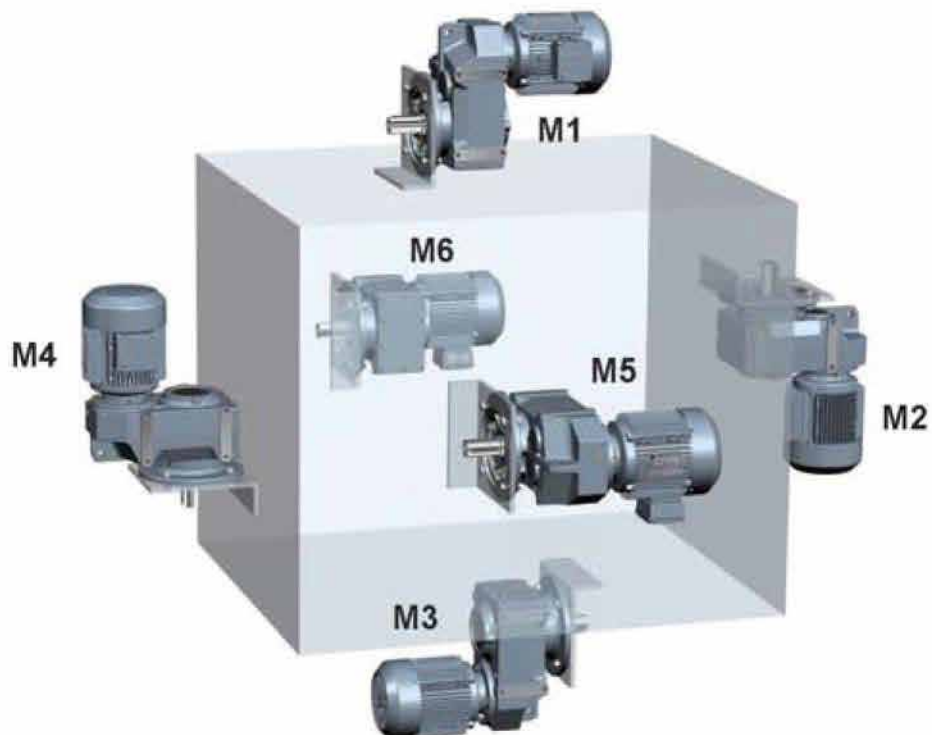
8. MOUNTING POSITIONS

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..

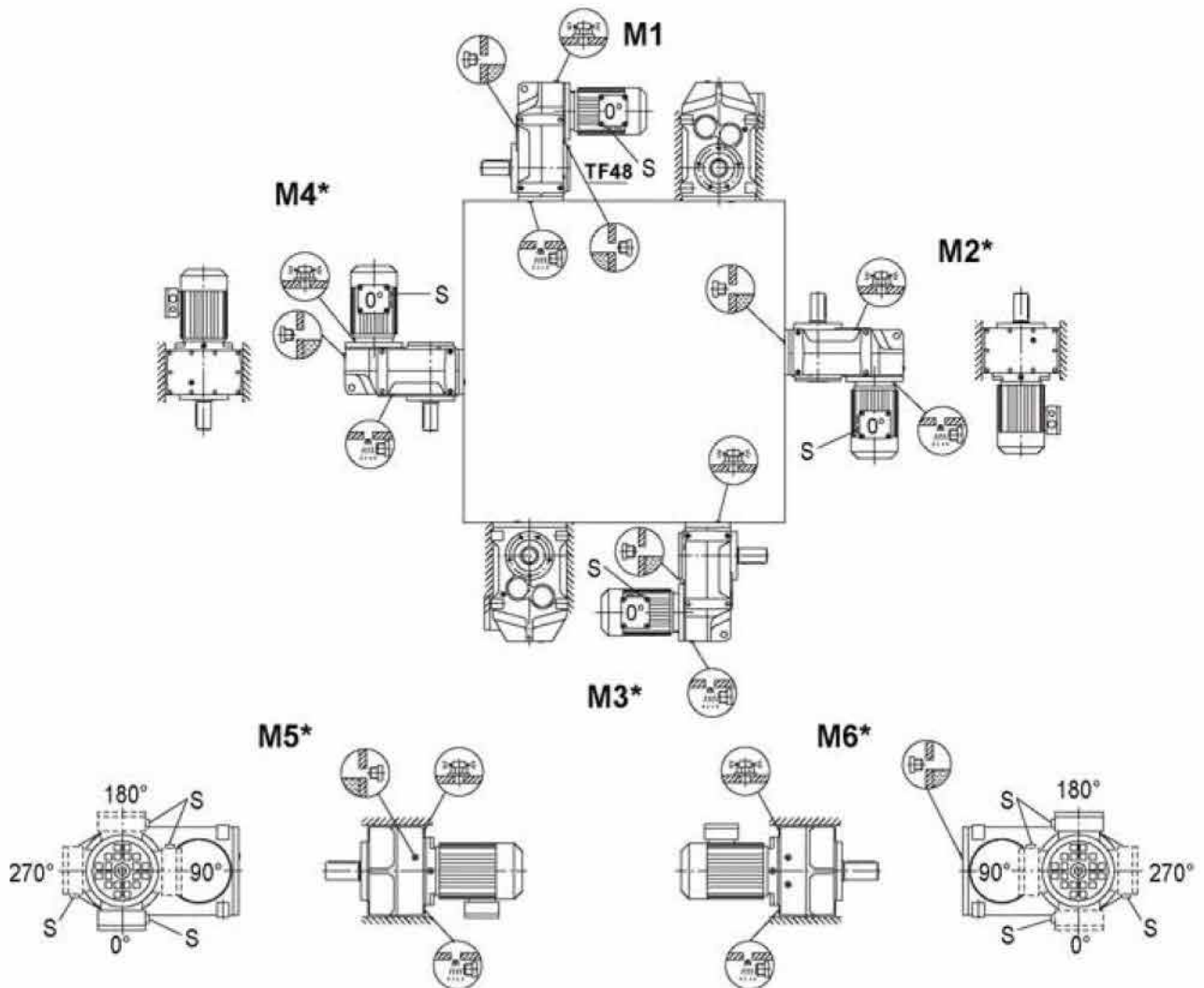
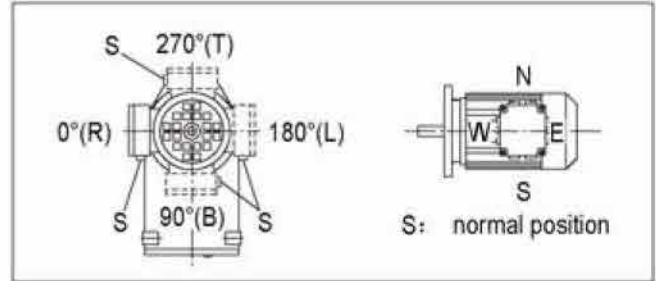


MOUNTING POSITIONS

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






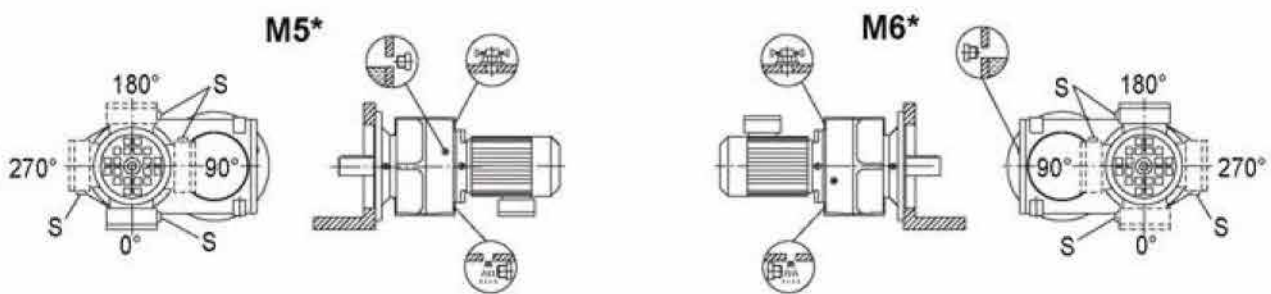
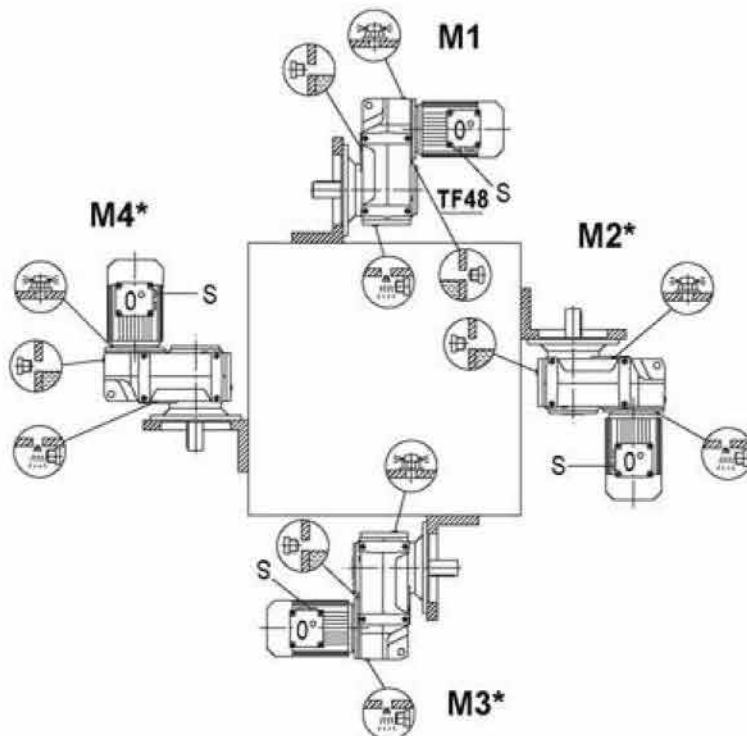
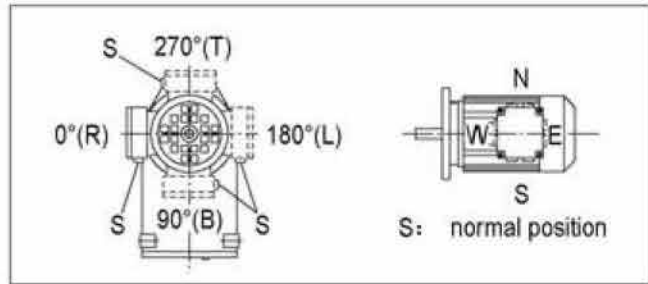
Mounting position	Gear unit size	Input speed [r/min]
M2*, M3*, M4*, M5*, M6*	98...108	>2500
	>108	>1500

- 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



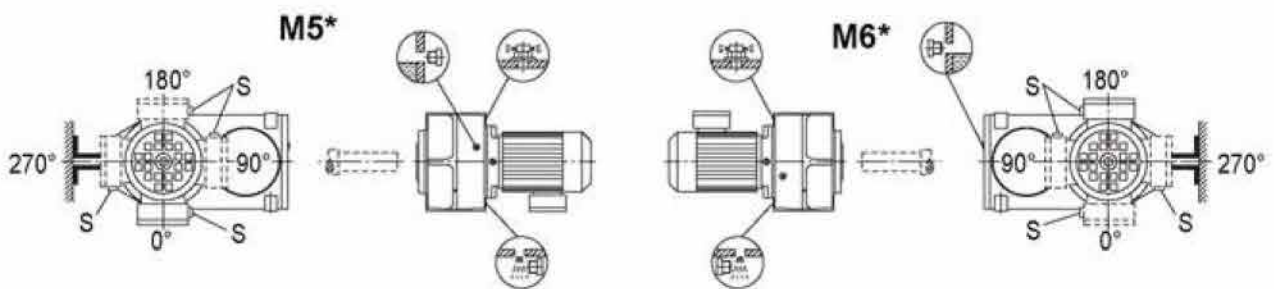
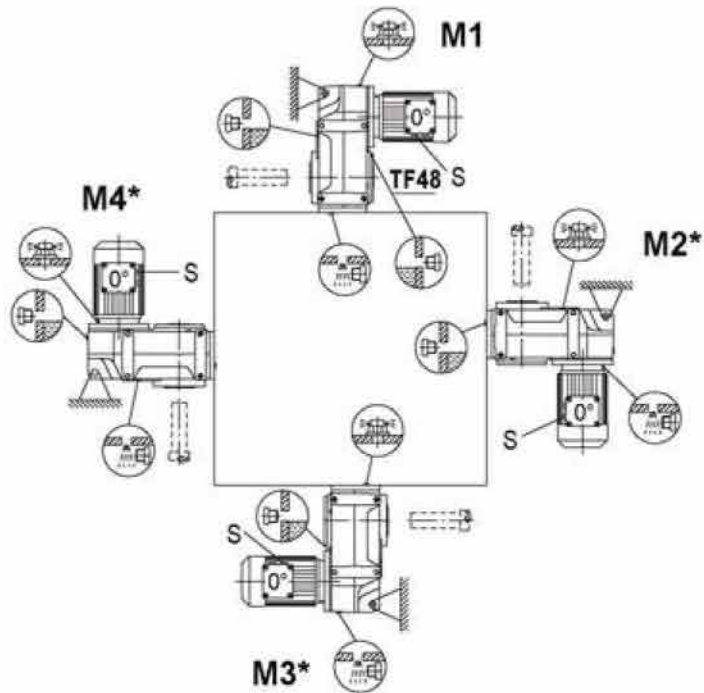
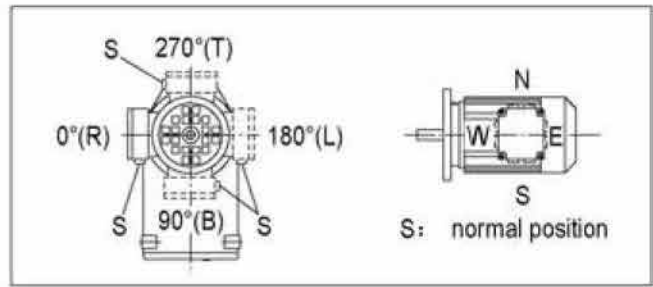
Mounting position	Gear unit size	Input speed [r/min]
M2*,M3*,M4*,M5*,M6*	98...108	>2500
	>108	>1500

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...:

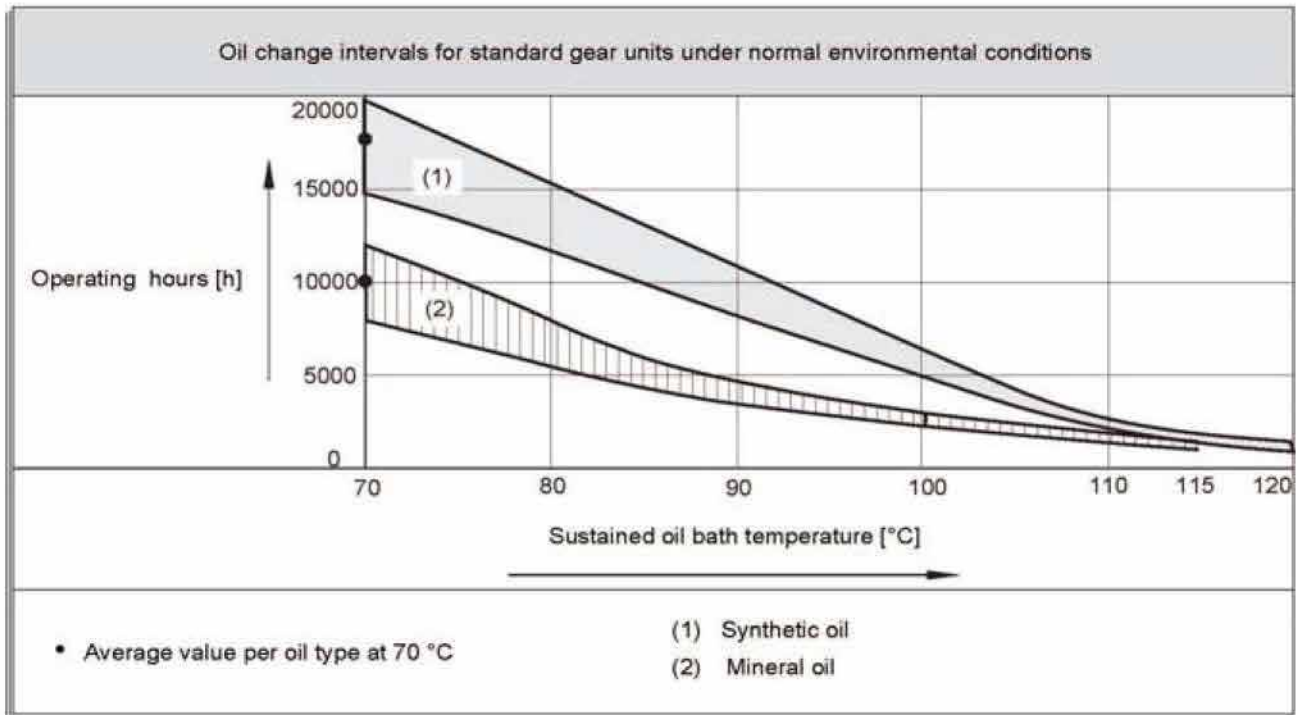
Gear units	Fill quantity in liters (L)					
	M1	M2	M3	M4	M5	M6
TFF28	0.60	0.80	0.70	0.70	0.60	0.60
TFF38	1.00	1.25	0.70	1.30	1.00	1.10
TFF48	1.60	1.85	1.10	1.90	1.50	1.70
TFF58	2.8	3.5	2.1	3.7	2.9	3.0
TFF68	2.7	3.8	1.90	3.8	2.9	3.2
TFF78	5.9	7.3	4.3	8.1	6.0	6.3
TFF88	10.8	13.2	7.8	14.1	11.0	11.2
TFF98	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





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