

Transmax
Helical Gear



TF Series

Europe Technology and Design



TF SERIES

Europe Technology and Design

CONTENS

Page

1	➤ SUMMARIZE
2-4	➤ PRODUCT STRUCTURE PICTURE
5	➤ MODEL ILLUMINATE
6-10	➤ RELEVANT PARAMETER
12	➤ SELECTION EXAMPLE
	◀ GEAR UNIT SELECTION TABLES
13-36	➤ Possible geometrical combinations
37-78	➤ TF.. Performance parameter
79-88	➤ TF../TRF..Performance parameter
	◀ OUTLINE DIMENSION SHEET
90-132	➤ TF..OUTLINE dimension
133	➤ TF../TRF..Outline dimension
134-137	➤ TF..AM(IEC) Outline dimension
136	➤ TF..AD Outline dimension
	◀ INSTALLATION
138	➤ Mounting positions designation
138-142	➤ Mounting positions
142	➤ Installation methods
	◀ LUBRICANTS
143	➤ Types of lubricants
143	➤ Lubricant fill quantity
145	➤ MAINTENANCE
146	➤ STORAGE
146	➤ NOTICE FOR ORDER
147	➤ MULFUNCTIONS
	ADDENDUM
148-149	➤ CHARGE CHARACTERISTIC CHART
151	➤ SHOW THE SERIES PRODUCTS



1. **SUMMARIZE**

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

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.

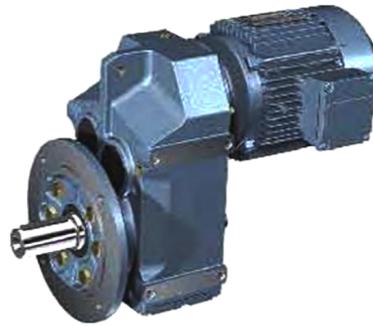
TF Series helical-worm gearmotor is formde of 2-stage helical-wrom gears unit and motor. The helical gear and worm use high quality alloy steel with surface hardening;the worm wheel adopts wearable tin bronze which shaped by high precision device. All housing are in cast iron. offer precision finishing to ersure 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..YDA..



TFF..YDA..



***TFF..B YDA..
TFV..B YDA..***



TFH..B YDA..



***TFF..YDA..
TFV..YDA..***



TFH..YDA..



***TFAF..YDA..
TFVF..YDA..***



TFHF..YDA..



***TFAZ ..YDA..
TFVZ..YDA..***



TFHZ..YDA..



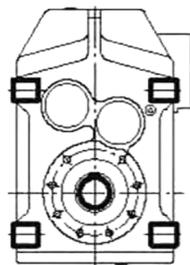
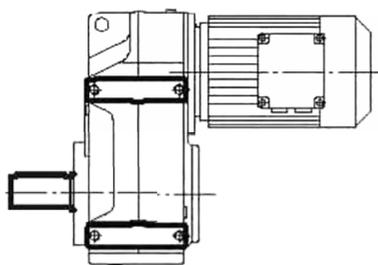
TF.. AM (IEC) ..



TF..AD..

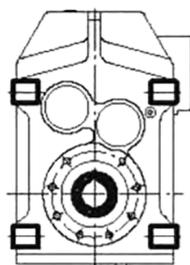
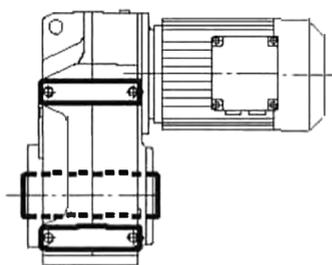
DESIGNS

2.2 designs



TF..YDA..

Foot-mounted parallel shaft helical geared motor

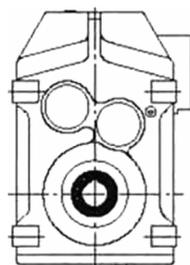
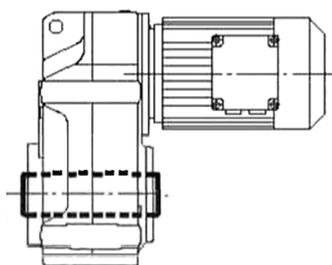


TFF..B YDA..

Foot-mounted parallel shaft helical geared motor with hollow shaft

TFV..B YDA..

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

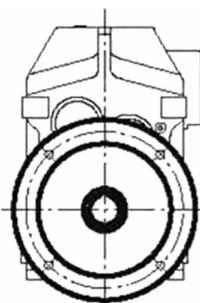
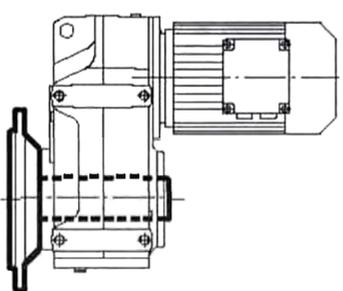


TFF..YDA..

parallel shaft helical geared motor with hollow shaft

TFV...

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

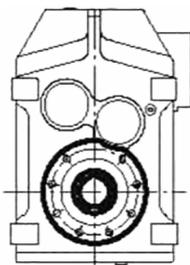
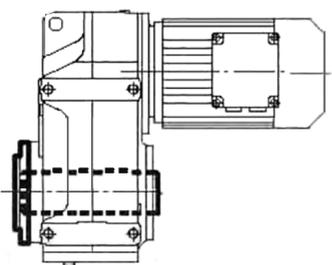


TFAF..YDA..

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

TFVF..YDA..

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



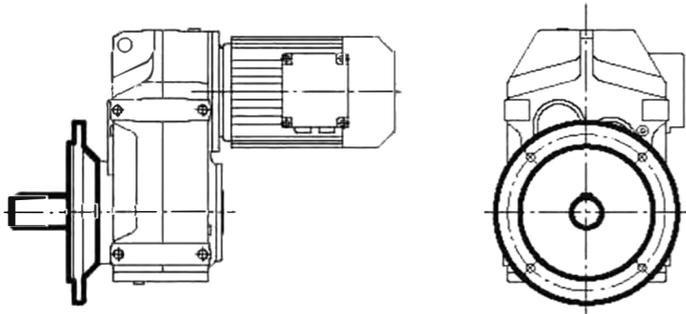
TFAZ..YDA..

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

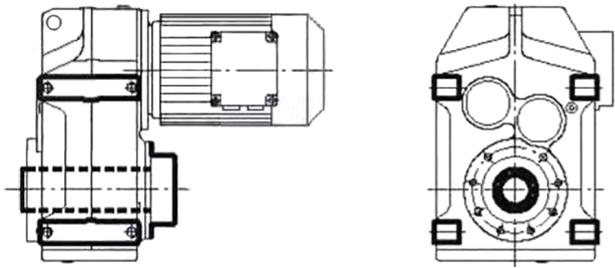
TFVZ..YDA..

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

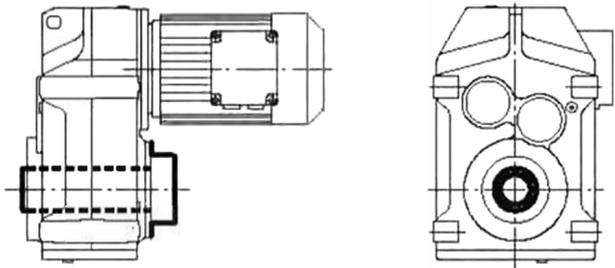
DESIGNS



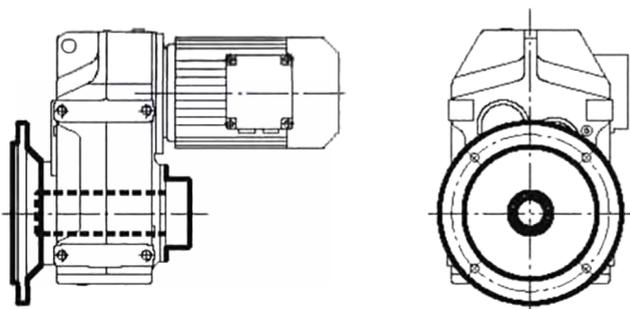
TFF..YDA..
parallel shaft helical geared motor in B5 flange-mounted version



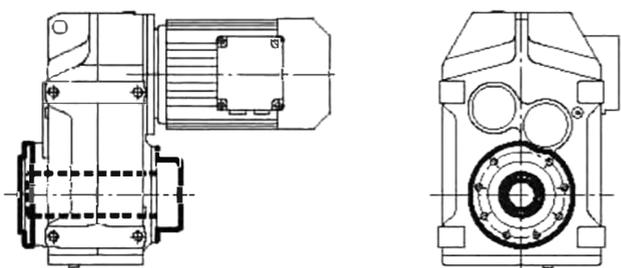
TFH..B YDA..
Foot-mounted parallel shaft helical geared motor with hollow shaft and shrink disk



TFH..YDA..
parallel shaft helical geared motor with hollow shaft and shrink disk



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



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

MODEL ILLUMINATE

3. MODEL ILLUMINATE

TF **A** **87** **B-** **YDT** **180** **M** **4** / **BMG** / **HF** / **TF** - **21.32** - **M6** / **270**[°]
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

No	Comments
1	TF: code for gear units series
2	1). no code means foot-mounted 2). A: hollow shaft 3). H: hollow shaft with shrink disk 4). V: splined hollow shaft to DIN 5480 5). F: 85 flange-mounted 6). Z: 814 flange-mounted
3	specification code of gear units 28, 38,
4	1). B: foot-mounted 2). /G: torque arm-mounted
5	1). YDT: 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: TF47 - YDA71D4 - 79.72
TFF67 -AM80 - 127.27
TFAF67 - YDA90L4 / 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) 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 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

P_1 torque Input power

η Transmission efficiency

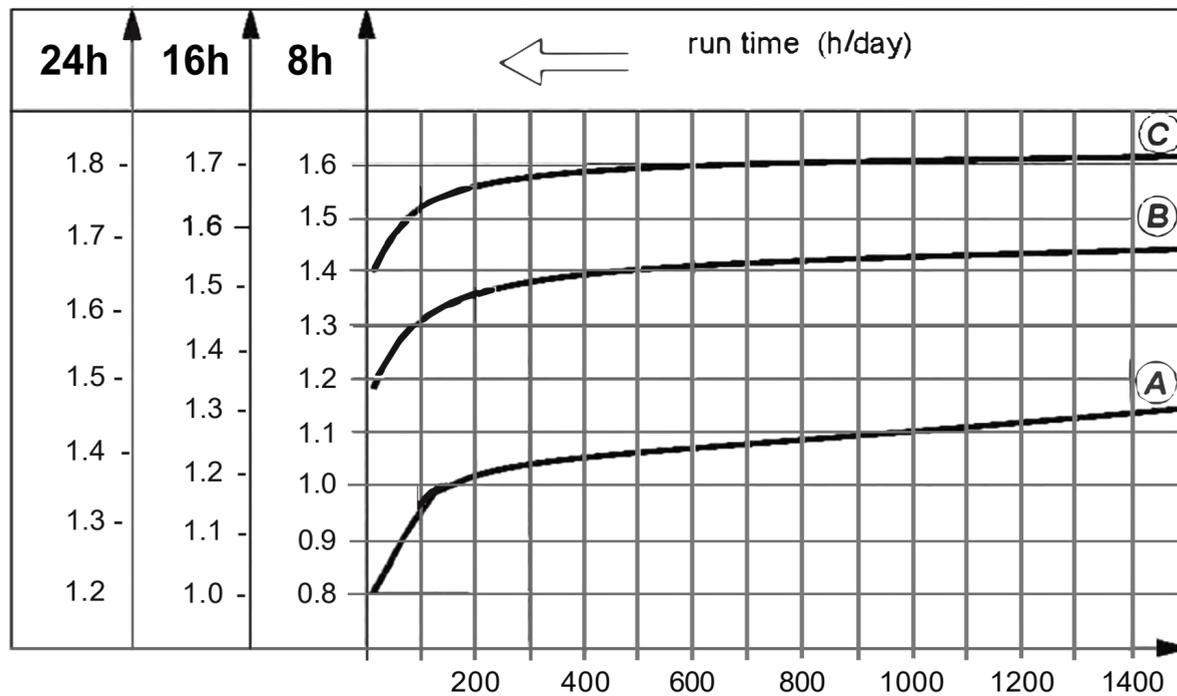
f_s Service factor

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.



RELEVANT PARAMETER



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 $f_a \leq 0.2$ factor $f_a \leq 3$
- (B) Moderate shock load, permitted mass acceleration
- (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 (kgm^2)
- J_m Mass moment of inertia on the motor end (kgm^2)

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 .

Example:

Mass acceleration factor 2.5 (load classification (B)), 14 hours/day operating time (read off at 16 h/d) and 200 cycles/hour result in a service factor $f_s = 1.48$. choose the service factor $f_s = 1.48$ according to the parameter sheet .

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 .

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
GEAR	1.00	< 17 teeth
	1.15	< 17 teeth
Chain sprockets	1.00	< 20 teeth
	1.25	< 20 teeth
	1.40	< 13 teeth
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:

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

- 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 LH_{10} 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.

RELEVANT PARAMETER

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 M2 max-

F_{xL} according to bearing service life:

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

F_{xW} from the shaft strength:

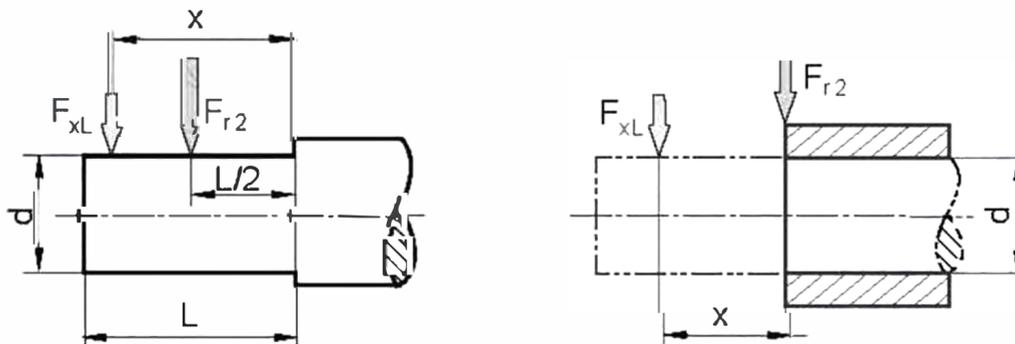
$$F_{xW} = F_{r2} * \frac{c}{f + x} \text{ [N]}$$

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]



F_x / Figure: Overhung load F_x for off-center force application / Gear unit constants for overhung load conversion

Gear unit type	a [mm]	b [mm]	c [Nmm]	f [mm]	d [mm]	L [mm]
TF27	109.5	84.5	1.13×10^5	0	25	50
TF37	123.5	98.5	1.07×10^5	0	25	50
TF47	153.5	123.5	1.78×10^5	0	30	60
TF57	170.7	135.7	5.49×10^5	32	35	70
TF67	181.3	141.3	4.12×10^5	0	40	80
TF77	215.8	165.8	7.87×10^5	0	50	100
TF87	263	203	1.19×10^6	0	60	120
TF97	350	280	2.09×10^6	0	70	140
TF107	373.5	288.5	4.23×10^6	0	90	170
TF127	442.5	337.5	9.45×10^6	0	110	210
TF157	512	407	1.05×10^7	0	120	210

RELEVANT PARAMETER

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]

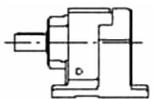
M_{2n} Output torque [Nm]

M_{2MAX} Max. permissible output torque [Nm]

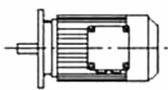
F_{r2} Permissible overhung load output side [N]

i Gear unit ratio

f_s Service factor

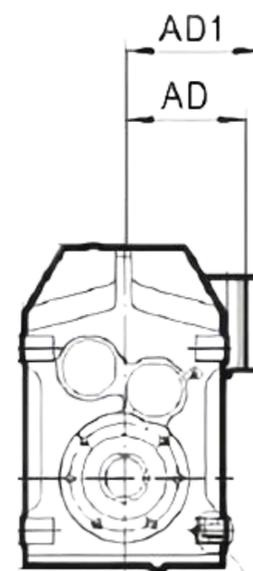
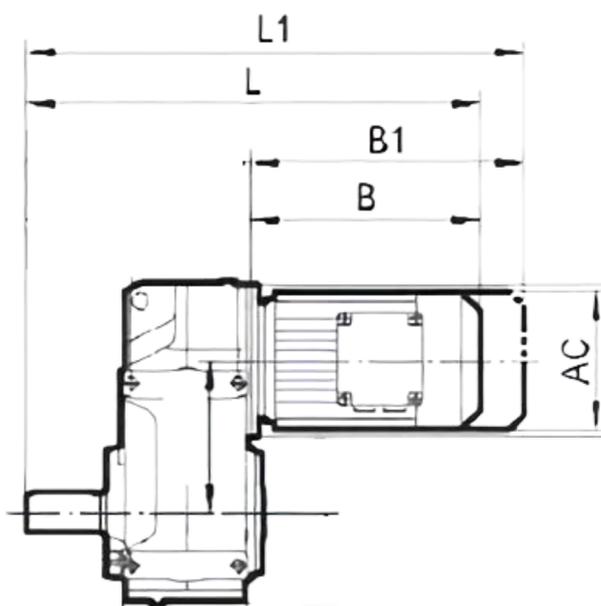


Gear unit type



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 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:

TF127 - YDT25.30 - M5

5.2 Gear units

Example: Required torque 5000Nm on driven machine, work 8h/day, uniform load, so $f_s=1.1$, flange-mounted, $n_2=4$ r/min, choose TR../TRF..

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

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

$$P_{1n} \geq P_1 \cdot f_s = \frac{M_2 \cdot n_1}{9550 \cdot n \cdot i} \cdot f_s = \frac{5000 \times 1400}{9550 \times 0.94 \times 0.96 \times 350} \times 1.1 = 2.78 \text{ [kW]}$$

Choose type:

TFF107 / TRF77 - 333

POSSIBLE GEOMETRICAL COMBINATIONS

6. GEAR UNIT SELECTION TABLES

6.1 Possible geometrical combinations

TF.. 27 $n_1=1400$ r/min **130Nm**

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90
3Stage						
9.9	130	4500	140.74			
11	130	4500	129.09			
13	130	4500	109.90			
15	130	4500	94.76			
16	130	4500	88.32			
18	130	4500	77.21			
19	130	4500	72.37			
22	130	4400	63.86			
25	130	4190	56.62			
28	130	3980	50.19			
30	130	3860	46.78			
34	130	3640	40.89			
37	130	3530	38.33			
41	130	3340	33.83			
2Stage						
47	130	3150	29.56			
52	130	3030	27.18			
60	130	2820	23.25			
69	130	2630	20.15			
74	130	2550	18.84			
86	130	2370	16.28			
101	130	2180	13.84			
113	130	2060	12.35			
133	130	1900	10.55			
142	130	1830	9.88			
149	130	1660	9.40			
172	123	1590	8.13			
203	114	1530	6.91			
227	109	1480	6.17			
266	100	1440	5.27			
284	96	1420	4.93			
337	87	1380	4.16			

TF.. 27/TRF17 $n_1=1400$ r/min **130Nm**

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80
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		

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 27/TRF17

$n_1=1400$ r/min

130Nm

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80
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		

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 37 $n_1=1400$ r/min

200Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100
3Stage							
11	200	4290	128.51				
12	200	4290	117.88				
14	200	4290	100.36				
16	200	4290	86.53				
17	200	4290	80.65				
20	200	4290	70.50				
21	200	4290	66.09				
24	200	4290	58.32				
26	200	4290	54.54				
27	200	4290	51.70				
30	200	4290	47.02				
32	200	4290	43.83				
37	200	4290	38.31				
39	200	4290	35.91				
44	200	4290	31.69				
50	200	4060	28.09				
59	200	3760	23.88				
2Stage							
59	200	3740	23.63				
68	200	3500	20.57				
73	200	3390	19.27				
82	200	3180	17.03				
89	200	3070	15.81				
98	200	2910	14.33				
109	200	2750	12.87				
126	190	2620	11.08				
134	185	2580	10.42				
156	175	2460	8.97				
175	170	2360	8.01				
188	145	2350	7.44				
208	140	2270	6.74				
231	135	2190	6.05				
269	125	2120	5.21				
286	120	2100	4.90				
332	110	2030	4.22				
371	105	1970	3.77				

TF.. 37/TRF17 $n_1=1400$ r/min

200Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80
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		

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 37/TRF17

$n_1=1400$ r/min

200Nm

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80
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		

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 37/TRF17 $n_1=1400$ r/min

200Nm

n_2 [r/min]	M _{imax} [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80
2Stage/2Stage					
11	200	4290	129		
12	200	4290	118		
14	200	4290	98		
16	200	4290	87		

TF.. 47 $n_1=1400$ r/min

400Nm

n_2 [r/min]	M _{2max} [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100
3Stage							
7.3	400	5920	190.76				
8.0	400	5920	175.38				
9.3	400	5920	150.06				
11	400	5920	130.07				
12	400	5920	121.57				
13	400	5920	105.09				
16	400	5920	89.29				
18	400	5920	79.72				
21	400	5920	68.09				
21	400	5920	65.36				
25	400	5920	56.49				
29	400	5920	48.00 *				
33	400	5920	42.86				
38	400	5920	36.61				
41	400	5920	34.29				
48	400	5790	28.88				
2Stage							
45	400	5920	30.86				
48	400	5830	29.32				
54	400	5470	25.72				
64	400	5030	21.82				
71	400	4770	19.70				
81	400	4450	17.33				
86	400	4320	16.36				
101	400	3950	13.93				
111	400	3740	12.66				
128	400	3440	10.97				
156	330	3250	8.96				
178	380	2630	7.88				
188	380	2530	7.44 *				
221	350	2470	6.34				
243	340	2390	5.76				
281	320	2310	4.99				

POSSIBLE GEOMETRICAL COMBINATIONS

TF..47/TRF17

$n_1=1400$ r/min

400Nm

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM90
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		

POSSIBLE GEOMETRICAL COMBINATIONS

TF..47/TRF17 $n_1=1400$ r/min

400Nm

n2 [r/min]	M _{imax} [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80
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.. 57 $n_1=1400$ r/min

600Nm

n2 [r/min]	M _{2max} [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
3Stage									
7.0	600	9200	199.70						
7.6	600	9200	183.60						
8.9	600	9200	157.09						
10	600	9200	136.16						
11	600	9200	127.27						
13	600	9200	110.01						
15	600	9200	93.47						
17	600	9200	83.46						
19	600	9200	72.98						
21	600	9200	68.22						
24	600	9200	58.97						
28	600	9200	50.10						
31	600	9160	44.73						
37	600	8510	38.21						
39	600	8250	35.79						
46	590	7650	30.15						
2Stage									
35	290	10500	40.13						
41	500	8670	34.24						
47	545	7890	29.94						
49	535	7760	28.45						
56	575	7060	24.96						
66	600	6350	21.17						
73	600	6020	19.11						
83	600	5620	16.81						
88	600	5450	15.88						
104	600	4980	13.52						
114	600	4710	12.29						
132	600	4320	10.64						
150	420	4760	9.31						
171	420	4450	8.19						
181	420	4310	7.73						
213	420	3940	6.58						

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 57

$n_1=1400$ r/min

600Nm

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
2Stage									
234	420	3730	5.98						
270	415	3460	5.18						

TF.. 57/TRF37

$n_1=1400$ r/min

600Nm

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100
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				

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 57TRF37 $n_1=1400$ r/min

600Nm

n2 [r/min]	Mimax [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100
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.. 67 $n_1=1400$ r/min

820Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
3Stage									
6.1	820	10300	228.99						
7.2	820	10300	195.39						
8.2	820	10300	170.85						
8.6	820	10300	162.31						
9.8	820	10300	142.40						
12	820	10300	120.79						
13	820	10300	109.04						
15	820	10300	95.94						
15	820	10300	90.59						
18	820	10300	79.76						
21	820	10300	67.65						
23	820	10300	61.07						
26	820	10300	53.73						
28	820	10300	50.74						
32	820	10300	43.20						
36	780	10700	39.26						
41	740	11000	34.01						
2Stage									
39	820	10300	36.30						
44	820	10300	32.08						
51	820	10300	27.41						
56	820	10300	25.13						
63	820	10300	22.05						
67	820	10300	20.90 *						



POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 67

$n_1=1400$ r/min

820Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
2Stage									
77	820	10300	18.29						
85	820	10300	16.48						
97	820	10300	14.46						
110	820	10300	12.76						
124	820	10300	11.31						
145	820	10300	9.66						
154	530	11400	9.08						
163	570	10900	8.60						
186	610	10100	7.53						
206	620	9660	6.78						
235	610	9200	5.95						
267	590	8850	5.25						
300	560	8590	4.66						
353	500	8390	3.97						

TF.. 67/TRF37

$n_1=1400$ r/min

820Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100
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				

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 67/TRF37 $n_1=1400$ r/min

820Nm

n2 [r/min]	Mimax [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100
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.. 77

$n_1=1400$ r/min

1500Nm

n_2 [r/min]	M_{2max} [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM 132S AM 132M	AM132ML AM160M
3Stage										
5.0	1500	15700	281.71							
5.3	1500	15700	262.93							
6.2	1500	15700	225.79							
7.1	1500	15700	198.31							
7.4	1500	15700	188.40							
8.4	1500	15700	166.47							
9.8	1500	15700	142.27							
11	1500	15700	130.42							
12	1500	15700	114.45							
13	1500	15700	108.46 *							
15	1500	15700	94.93							
16	1500	15700	85.52							
19	1500	15700	75.02							
19	1500	15700	72.50							
21	1500	15700	66.46							
24	1500	15700	58.32							
25	1500	15700	55.27							
29	1500	15700	48.37							
32	1500	15700	43.58							
37	1500	15700	38.23							
41	1500	15700	33.74							
47	1500	15700	29.91							
55	1450	16100	25.54							
2Stage										
38	1110	17900	36.58							
44	1380	16500	31.51							
49	1430	16200	28.75							
55	1500	15700	25.50 *							
65	1500	15700	21.43							
71	1500	15700	19.70							
80	1500	15700	17.49							
90	1500	15700	15.64 *							
100	1500	15700	14.06							
115	1500	14900	12.20							
128	1500	14200	10.93							
151	1080	13800	9.30							
169	1080	13100	8.26							
189	1080	12500	7.39							
211	1080	12000	6.64							
243	1080	11300	5.76							
271	1080	10700	5.16							
327	1010	10200	4.28							

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 77/TRF37 $n_1=1400$ r/min

1500Nm

n2 [r/min]	Mimax [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100
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.. 77/TRF37

$n_1=1400$ r/min

1500Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100
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.. 87

$n_1=1400$ r/min

3000Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM80	AM90	AM100	AM112	AM 132S AM 132M	AM 132ML AM 160M AM 160L	AM180 AM 180
3Stage										
5.2	3000	19800	270.68							
5.5	3000	19800	255.37							
6.1	3000	19800	228.93							
7.1	3000	19800	197.20							
7.8	3000	19800	179.97							
8.8	3000	19800	159.61							
10	3000	19800	134.16							
11	3000	19800	123.29							
13	3000	19800	109.49							
14	3000	19800	97.89							
16	3000	19800	88.01							
18	3000	19800	76.39							
20	3000	19600	68.40							
25	3000	17700	56.75							
28	2940	16800	50.36							
31	2820	16200	45.28							
36	2720	15400	39.30							
40	2610	14900	35.19							
48	2510	13800	29.20							
2Stage										
41	2610	14600	33.92							
49	2450	13900	28.78							
53	3000	11100	26.50							
59	3000	10300	23.68							
66	3000	9530	21.32 *							
73	3000	8840	19.31							
82	3000	8040	17.12							
90	3000	7390	15.48							
107	3000	6370	13.12 *							

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 87 $n_1=1400$ r/min

3000Nm

n ₂ [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM80	AM90	AM100	AM112	AM 132S AM 132M	AM132ML AM 160M AM 160L	AM180
2Stage										
122	3000	5580	11.46							
146	2880	5050	9.58							
169	1530	8890	8.29							
190	1530	8280	7.35							
211	1530	7790	6.65							
249	1530	7020	5.63							
285	1530	6430	4.92							
340	1460	5980	4.12							

TF.. 87/TRF57 $n_1=1400$ r/min

3000Nm

n ₂ [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
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.. 87/TRF57

$n_1=1400$ r/min

3000Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132
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.. 97

$n_1=1400$ r/min

4300Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ (NJ)	i	AM90	AM100	AM112	AM132S AM132M	AM132 ML AM160M AM160L	AM180	AM200
3Stage										
5.1	4300	29900	276.77							
5.5	4300	29900	253.41							
6.3	4300	29900	223.88							
7.4	4300	29900	189.92							
8.0	4300	29900	174.87							
9.0	4300	29900	156.30							
9.9	4300	29900	140.71							
11	4300	29900	127.42							
12	4300	29900	112.99							
14	4300	29900	102.16							
14	4300	29900	97.58							
16	4300	29900	89.85							
16	4300	29900	86.59							

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 97 $n_1=1400$ r/min

4300Nm

n_2 [r/min]	M_2max [Nm]	Fr_2 [N]	i	AM90	AM100	AM112	AM 132S AM 132M	AM 132ML AM 160M AM 160L	AM180	AM200
3Stage										
17	4300	29900	80.31							
19	4300	29900	75.63							
19	4300	29900	72.29							
21	4300	29000	65.47							
24	4300	27200	58.06							
27	4300	25800	52.49							
31	4300	23600	44.49							
36	4300	21900	38.86							
43	4300	19800	32.50							
2Stage										
32	3070	27600	43.28							
38	3070	25500	36.64							
41	4300	20300	33.91							
46	4300	19000	30.39							
51	4300	17900	27.44*							
56	4300	16800	24.92							
63	4300	15600	22.11							
70	4300	14600	20.07							
81	4300	13200	17.25*							
93	4300	11900	15.06							
110	4300	10500	12.77							
125	4100	10000	11.16							
155	2360	13400	9.06							
170	2360	12600	8.22							
198	2360	11500	7.07							
227	2250	11100	6.17							
268	2150	10400	5.23							
306	2050	9950	4.57							
362	1800	9970	3.87							

TF ..97/TRF57 $n_1=1400$ r/min

4300Nm

n_2 [r/min]	M_2max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
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.. 97/TRF57

$n_1=1400$ r/min

4300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M
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						

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 107 $n_1=1400$ r/min

7840Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM100	AM112	AM132S AM132M	AM132ML AM160M AM160L	AM180	AM 200 AM 225S AM 225M
3Stage									
5.5	7680	49800	254.40 *						
6.5	7680	49800	215.37						
7.0	7680	49800	199.31						
7.8	7680	49800	178.64						
8.7	7680	49800	161.28 *						
9.6	7680	49800	146.49						
11	7680	49800	129.97						
12	7680	49800	117.94						
14	7680	49800	101.38 *						
15	7680	49800	92.47 *						
16	7680	49800	88.49						
17	7680	49800	83.99						
19	7680	49800	74.52						
21	7680	49800	67.62						
24	7680	47800	58.12 *						
28	7680	45100	50.73						
33	7680	42000	43.03						
37	7680	39500	37.61						
44	7680	36500	31.80						
2Stage									
41	7400	38300	33.79 *						
51	7840	33300	27.57						
56	7840	31500	25.14						
64	7840	28800	21.76 *						
73	7840	26500	19.20 *						
84	7840	23900	16.58						
95	7680	22400	14.67						
114	7000	22600	12.33						
141	6500	21500	9.96						
144	4910	23500	9.69						
167	4800	22000	8.37						
189	4600	21300	7.40						
225	4600	19000	6.22						
278	4600	16400	5.03						

TF.. 107/TRF77 $n_1=1400$ r/min

7840Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M	AM132ML AM160M
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							

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 107/TRF77 n1=1400 r/min

7840Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M	AM132ML AM160M
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							

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 107/TRF77 $n_1=1\ 400\ \text{r/min}$

7840Nm

n_2 [r/min]	$M_2\text{max}$ [Nm]	Fr_2 [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M	AM132ML AM160M
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.. 127 $n_1=1400\ \text{r/min}$

12000Nm

n_2 [r/min]	$M_2\text{max}$ [Nm]	Fr_2 [N]	i	AM132M	AM132ML AM160M AM160L	AM180	AM200 AM225S AM225M	AM250M AM280	AM315M AM315S
3Stage									
8.2	12000	90000	170.83						
9.1	12000	90000	153.67 *						
11	12000	90000	125.37						
12	12000	88000	114.34						
14	12000	83000	98.95						
16	12000	79000	87.31 *						
19	12000	74300	75.41 *						
20	12000	72100	70.07						
22	12000	69400	63.91						
25	12000	65200	55.31						
29	12000	61300	48.80						
33	12000	56800	42.15						
38	12000	53200	37.28						
45	12000	48300	31.33						
55	12000	42400	25.30						
2Stage									
52	8500	55300	26.86						
57	8500	53300	24.57						
65	12000	38000	21.38						
74	11000	38800	18.87						
86	11000	35400	16.36						
96	11000	32600	14.55						
112	10000	33300	12.54						
137	9500	30900	10.19						
158	7000	36400	8.86						
178	6000	37000	7.88						
206	7000	32200	6.80						
254	6000	31700	5.52						
299	6000	29500	4.68						

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 127/TRF77 n1= 1400 r/min

12000Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM63 AM71	AM80	AM90	AM100	AM112	AM132S AM132M	AM132S AM160M
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..127/TRF87 n1 = 1400 r/min

12000Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM90	AM100	AM112	AM132S AM132M	AM132ML AM160M AM160L	AM180
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						

POSSIBLE GEOMETRICAL COMBINATIONS

TF.. 157 $n_1=1400$ r/min

18000Nm

n2 [r/min]	M ₂ max [Nm]	Fr ₂ [N]	i	AM132ML AM160M AM160L	AM180	AM 200 AM 225S AM 225M	AM250M AM280	AM315M AM315S	AM315M_B AM315M_B
3Stage									
5.2	18000	100300	267.43						
6.4	18000	100300	217.62*						
7.9	18000	100300	178.20*						
8.6	18000	100300	162.96						
9.9	18000	100300	141.80*						
11	18000	100300	125.14						
13	18000	100300	108.49						
15	18000	100300	96.53*						
16	18000	95800	85.80*						
18	18000	92300	78.46						
21	18000	87000	68.28*						
23	18000	82500	60.25						
27	18000	77500	52.24						
30	18000	73600	46.48*						
35	18000	68900	40.06						
43	18000	62500	32.55						
51	18000	57800	27.60						
2Stage									
26	8000	98400	53.55						
32	10000	87800	43.94*						
39	11000	79300	35.75*						
49	17000	60800	28.60*						
55	15000	61500	25.43						
63	18000	51800	22.16						
71	17000	50900	19.77						
83	18000	44900	16.85						
100	17000	42500	13.96						
117	16000	40900	11.92						

POSSIBLE GEOMETRICAL COMBINATIONS

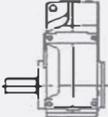
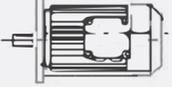
TF.. 157/TRF97 n1=1400 r/min

18000Nm

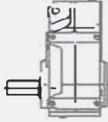
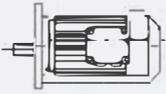
n2 [r/min]	M:2max [Nm]	Fr ₂ [N]	i	AM80	AM90	AM100	AM112	AM132S AM132M	AM132ML AM160M AM 160L	AM180	AM200
3Stage / 3Stage											
0.04	18000	100300	31434								
0.05	18000	100300	26173								
0.06	18000	100300	23464								
0.07	18000	100300	20212								
0.08	18000	100300	17984								
0.09	18000	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								

PERFORMANCE PARAMETER

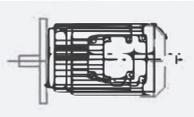
6.2 TF..MY.. Performance parameter

P1n [kWJ]	n2 [r/min]	M2n [Nm]	i	Fr ₂ [N]	ts			
0.12	0.06	13900	22323	86700	0.85	TFA	127 / TRF77	YDA 63S4
	0.07	11900	19048	90000	1.00	TFAF	127 / TRF77	YDA 63S4
	0.08	10400	16656	90000	1.15	TF	127 / TRF77	YDA 63S4
	0.09	9180	14722	90000	1.30	TFF	127 / TRF77	YDA 63S4
	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	107 / TRF77	YDA 63S4
	0.12	7080	11348	51400	1.10	TFAF	107 / TRF77	YDA 63S4
	0.14	5750	10039	54600	1.35	TF	107 / TRF77	YDA 63S4
	0.16	4680	8548	57000	1.65	TFF	107 / TRF77	YDA 63S4
	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	97 / TRF57	YDA 63S4
	0.25	3820	5615	31300	1.15	TFAF	97 / TRF57	YDA 63S4
	0.28	3320	4961	32500	1.30	TF	97 / TRF57	YDA 63S4
	0.32	2900	4333	33500	1.50	TFF	97 / TRF57	YDA 63S4
	0.35	2690	3906	34000	1.60	TFA	97 / TRF57	YDA 63S4
	0.41	2320	3352	34800	1.85	TFAF	97 / TRF57	YDA 63S4
	0.47	1920	2907	35500	2.2	TF	97 / TRF57	YDA 63S4
	0.54	1760	2553	35800	2.4	TFF	97 / TRF57	YDA 63S4
	0.33	2770	4245	23800	1.10	TFA	87 / TRF57	YDA 63S4
	0.37	2220	3721	25800	1.35	TFAF	87 / TRF57	YDA 63S4
						TF	87 / TRF57	YDA 63S4
						TFF	87 / TRF57	YDA 63S4
	0.43	2250	3244	25700	1.35	TFA	87 / TRF57	YDA 63S4
	0.48	1990	2881	26500	1.50	TFAF	87 / TRF57	YDA 63S4
	0.54	1780	2576	27100	1.70	TF	87 / TRF57	YDA 63S4
	0.63	1520	2199	27800	2.0	TFF	87 / TRF57	YDA 63S4
	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	77 / TRF37	YDA 63S4
	0.60	1570	2284	15200	0.95	TFAF	77 / TRF37	YDA 63S4
	0.68	1390	2029	16400	1.10	TF	77 / TRF37	YDA 63S4
						TFF	77 / TRF37	YDA 63S4
0.80	1180	1728	17500	1.25	TFA	77 / TRF37	YDA 63S4	
0.89	1090	1544	17900	1.40	TFAF	77 / TRF37	YDA 63S4	
1.0	960	1354	18500	1.55	TF	77 / TRF37	YDA 63S4	
1.2	850	1200	18800	1.75	TFF	77 / TRF37	YDA 63S4	
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				
0.97	960	1429	7070	0.85	TFA	67 / TRF37	YDA 63S4	
1.1	870	1271	9850	0.95	TFAF	67 / TRF37	YDA 63S4	
1.2	725	1102	11100	1.15	TF	67 / TRF37	YDA 63S4	
1.4	640	970	11700	1.30	TFF	67 / TRF37	YDA 63S4	
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				

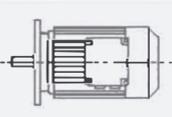
PERFORMANCE PARAMETER

P1n [kW]	n2 [r/min]	M2n [Nm]	i	Fr ₂ [N]	fs			
0.12	1.6	615	851	9100	1.00	TFA	57 / TRF37	YDA 63S4
	1.9	525	738	9750	1.15	TFAF	57 / TRF37	YDA 63S4
	2.1	455	646	10200	1.30	TF	57 / TRF37	YDA 63S4
	2.5	390	558	10600	1.55	TFF	57 / TRF37	YDA 63S4
	2.7	345	506	10900	1.75			
	3.1	300	452	11100	2.0			
	3.2	310	426	11100	2.0	TFA	57 / TRF37	YDA 63S4
	3.6	275	382	11300	2.2	TFAF	57 / TRF37	YDA 63S4
	4.2	235	330	11500	2.6	TF	57 / TRF37	YDA 63S4
	4.6	210	298	11500	2.9	TFF	57 / TRF37	YDA 63S4
	5.3	185	262	11500	3.2			
	2.5	385	543	6100	1.05	TFA	47 / TRF17	YDA 63S4
	2.9	335	475	6740	1.20	TFAF	47 / TRF17	YDA 63S4
	3.3	290	419	7150	1.40	TF	47 / TRF17	YDA 63S4
						TFF	47 / TRF17	YDA 63S4
	2.6	380	524	6190	1.05	TFA	47 / TRF17	YDA 63S4
	2.8	355	489	6530	1.15	TFAF	47 / TRF17	YDA 63S4
	3.2	305	427	7020	1.30	TF	47 / TRF17	YDA 63S4
	3.6	270	381	7310	1.50	TFF	47 / TRF17	YDA 63S4
	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	37 / TRF17	YDA 63S4
	5.0	192	278	4410	1.05	TFAF	37 / TRF17	YDA 63S4
	5.7	162	242	4750	1.25	TF	37 / TRF17	YDA 63S4
	6.2	156	221	4820	1.30	TFF	37 / TRF17	YDA 63S4
	4.2	235	326	3710	0.85	TFA	37 / TRF17	YDA 63S4
	4.9	205	285	4250	1.00	TFAF	37 / TRF17	YDA 63S4
	5.5	177	250	4590	1.15	TF	37 / TRF17	YDA 63S4
	6.3	156	219	4820	1.30	TFF	37 / TRF17	YDA 63S4
	7.4	132	186	5040	1.50			
	8.3	118	167	5140	1.70			
	6.2	155	221	4500	0.85	TFA	27 / TRF17	YDA 63S4
	8.0	119	172	4500	1.10	TFAF	27 / TRF17	YDA 63S4
	9.1	104	153	4500	1.25	TF	27 / TRF17	YDA 63S4
	11	87	130	4500	1.50	TFF	27 / TRF17	YDA 63S4
	6.5	150	211	4500	0.85	TFA	27 / TRF17	YDA 63S4
	7.4	131	186	4500	1.00	TFAF	27 / TRF17	YDA 63S4
	9.7	102	142	4500	1.25	TF	27 / TRF17	YDA 63S4
	11	88	124	4500	1.45	TFF	27 / TRF17	YDA 63S4
	13	77	109	4500	1.70			
	14	67	96	4500	1.95			
	3.9	290	228.99	13000	2.8	TFA	67	YDA 63M6
	4.6	250	195.39	13000	3.3	TFAF	67	YDA 63M6
	5.3	220	170.85	13000	3.8	TF	67	YDA 63M6
	5.5	205	162.31	13000	4.0	TFF	67	YDA 63M6
6.3	181	142.40	13000	4.5				
4.5	255	199.70	11400	2.4	TFA	57	YDA 63M6	
4.9	235	183.60	11500	2.6	TFAF	57	YDA 63M6	
5.7	200	157.09	11500	3.0	TF	57	YDA 63M6	
6.6	173	136.16	11500	3.5	TFF	57	YDA 63M6	
7.1	162	127.27	11500	3.7				
6.9	166	199.70	11500	3.6	TFA	57	YDA 63M6	
7.5	153	183.60	11500	3.9	TFAF	57	YDA 63M6	
8.8	130	157.09	11500	4.6	TF	57	YDA 63M6	
10	113	136.16	11500	5.3	TFF	57	YDA 63M6	
4.7	245	190.76	7510	1.65	TFA	57	YDA 63M6	
5.1	225	175.38	7640	1.80	TFAF	57	YDA 63M6	
6.0	191	150.06	7820	2.1	TF	57	YDA 63M6	
6.9	166	130.07	7940	2.4	TFF	57	YDA 63M6	
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				

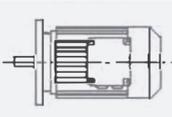
PERFORMANCE PARAMETER

P1n [kW]	n2 [r/min]	M2n [Nm]	i	Fr ₂ [N]	fs			
0.12	7.2	158	190.76	7970	2.5	TFA	47	YDA 63S4
	7.9	146	175.38	8020	2.8	TFAF	47	YDA 63S4
	9.2	125	150.06	8100	3.2	TF	47	YDA 63S4
	11	108	130.07	8150	3.7	TFF	47	YDA 63S4
	7.0	164	128.51	4740	1.20	TFA	37	YDA 63S4
	7.6	150	117.88	4880	1.35	TFAF	37	YDA 63S4
	9.0	128	100.36	5070	1.55	TF	37	YDA 63S4
	10	110	86.53	5190	1.80	TFF	37	YDA 63S4
	11	103	80.65	5240	1.95			
	11	107	128.51	5220	1.85	TFA	37	YDA 63S4
	12	98	117.88	5270	2.0	TFAF	37	YDA 63S4
	14	83	100.36	5340	2.4	TF	37	YDA 63S4
	16	72	86.53	5400	2.8	TFF	37	YDA 63S4
	17	67	80.65	5410	3.0			
	8.2	140	109.90	4500	0.95	TFA	27	YDA 63S4
	9.5	121	94.76	4500	1.10	TFAF	27	YDA 63S4
	10	113	88.32	4500	1.15	TF	27	YDA 63S4
	12	98	77.21	4500	1.30	TFF	27	YDA 63S4
	9.8	117	140.74	4500	1.10	TFA	27	YDA 63S4
	11	107	129.09	4500	1.20	TFAF	27	YDA 63S4
	13	91	109.90	4500	1.40	TF	27	YDA 63S4
	15	79	94.76	4500	1.65	TFF	27	YDA 63S4
	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	27	YDA 63S4
	51	23	27.18	4000	5.8	TFAF	27	YDA 63S4
	59	19	23.25	3820	6.7	TF	27	YDA 63S4
	68	17	20.15	3650	7.8	TFF	27	YDA 63S4
	73	16	18.84	3580	8.3			
	85	14	16.28	3420	9.6			
	100	12	13.84	3250	11			
	112	10	12.35	3140	13	TFA	27	YDA 63S4
	131	8.8	10.55	2990	15	TFAF	27	YDA 63S4
	140	8.2	9.88	2930	16	TF	27	YDA 63S4
	147	7.8	9.40	2870	17	TFF	27	YDA 63S4
	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	127 / TRF77	YDA 63M4
	0.11	12200	11656	90000	1.00	TFAF	127 / TRF77	YDA 63M4
	0.13	10800	10191	90000	1.10	TF	127 / TRF77	YDA 63M4
	0.15	8950	8831	90000	1.35	TFF	127 / TRF77	YDA 63M4
	0.17	7740	7643	90000	1.55			
	0.20	7130	6715	90000	1.70			
	0.15	8450	8548	47700	0.90	TFA	107 / TRF77	YDA 63M4
	0.17	8130	7674	48600	0.95	TFAF	107 / TRF77	YDA 63M4
	0.20	7070	6767	51400	1.10	TF	107 / TRF77	YDA 63M4
	0.22	6090	5954	53800	1.25	TFF	107 / TRF77	YDA 63M4
	0.25	5290	5223	55700	1.45			
	0.29	4850	4567	56600	1.60			
	0.37	3680	3521	59100	2.1			

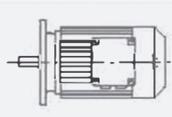
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
0.18	0.43	3260	3037	59900	2.4	TFA 107 / TRF77	YDA 63M4
	0.48	2960	2756	60500	2.6	TFAF 107 / TRF77	YDA 63M4
	0.56	2540	2369	61200	3.0	TF 107 / TRF77	YDA 63M4
	0.64	2220	2068	61800	3.5	TFF 107 / TRF77	YDA 63M4
	0.30	4810	4333	22800	0.90	TFA 97 / TRF57	YDA 63M4
						TFAF 97 / TRF57	YDA 63M4
						TF 97 / TRF57	YDA 63M4
						TFF 97 / TRF57	YDA 63M4
	0.34	4430	3906	29500	0.95	TFA 97 / TRF57	YDA 63M4
	0.39	3810	3352	31300	1.15	TFAF 97 / TRF57	YDA 63M4
	0.45	3210	2907	32800	1.35	TF 97 / TRF57	YDA 63M4
	0.52	2900	2553	33600	1.50	TFF 97 / TRF57	YDA 63M4
	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 87 / TRF57	YDA 63M4
	0.60	2490	2199	24800	1.20	TFAF 87 / TRF57	YDA 63M4
	0.68	2170	1930	25900	1.40	TF 87 / TRF57	YDA 63M4
	0.77	1940	1709	26600	1.55	TFF 87 / TRF57	YDA 63M4
	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 77 / TRF37	YDA 63M4
	0.98	1560	1354	15300	0.95	TFAF 77 / TRF37	YDA 63M4
	1.1	1380	1200	16500	1.10	TF 77 / TRF37	YDA 63M4
	1.2	1210	1053	17400	1.25	TFF 77 / TRF37	YDA 63M4
	1.4	1040	910	18200	1.45		
	1.6	890	810	18700	1.70	TFA 77 / TRF37	YDA 63M4
	1.9	780	710	19000	1.90	TFAF 77 / TRF37	YDA 63M4
	2.1	695	615	19300	2.20	TF 77 / TRF37	YDA 63M4
						TFF 77 / TRF37	YDA 63M4
	1.5	940	858	8660	0.85	TFA 67 / TRF37	YDA 63M4
	1.8	830	755	10200	1.00	TFAF 67 / TRF37	YDA 63M4
	2.1	705	641	11200	1.15	TF 67 / TRF37	YDA 63M4
	2.3	645	572	11600	1.25	TFF 67 / TRF37	YDA 63M4
	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 67 / TRF37	YDA 63M4
	2.9	530	454	12300	1.55	TFAF 67 / TRF37	YDA 63M4
	3.4	455	392	12600	1.80	TF 67 / TRF37	YDA 63M4
	4.0	380	333	12900	2.2	TFF 67 / TRF37	YDA 63M4
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 57 / TRF37	YDA 63M4	
2.6	570	506	9420	1.05	TFAF 57 / TRF37	YDA 63M4	
2.9	500	452	9930	1.20	TF 57 / TRF37	YDA 63M4	
3.4	425	386	10400	1.40	TFF 57 / TRF37	YDA 63M4	
3.9	370	338	10700	1.60			
3.1	500	426	9910	1.20	TFA 57 / TRF37	YDA 63M4	
3.5	445	382	10300	1.35	TFAF 57 / TRF37	YDA 63M4	
4.0	380	330	10700	1.55	TF 57 / TRF37	YDA 63M4	
4.4	345	298	10900	1.75	TFF 57 / TRF37	YDA 63M4	
5.0	305	262	11100	2.0			
5.8	255	226	11400	2.3			
6.6	225	200	11500	2.7			

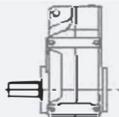
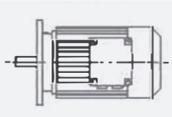
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	fs			
0.18	3.6	410	370	5210	0.95	TFA	47 / TRF17	YDA 63M4
	4.1	375	324	6250	1.05	TFAF	47 / TRF17	YDA 63M4
	4.6	325	288	6810	1.20	TF	47 / TRF17	YDA 63M4
	5.3	280	249	7250	1.45	TFF	47 / TRF17	YDA 63M4
	4.0	385	334	6100	1.05	TFA	47 / TRF17	YDA 63M4
	4.5	340	295	6680	1.20	TFAF	47 / TRF17	YDA 63M4
	5.2	285	253	7190	1.40	TF	47 / TRF17	YDA 63M4
	6.1	255	217	7430	1.55	TFF	47 / TRF17	YDA 63M4
	7.0	220	190	7650	1.80			
	7.4	205	178	7740	1.95			
	7.1	215	186	4060	0.95	TFA	37 / TRF17	YDA 63M4
	7.9	194	167	4380	1.05	TFAF	37 / TRF17	YDA 63M4
	9.1	171	145	4660	1.15	TF	37 / TRF17	YDA 63M4
	10	151	129	4870	1.30	TFF	37 / TRF17	YDA 63M4
	9.3	166	142	4500	0.80	TFA	27 / TRF17	YDA 63M4
	11	144	124	4500	0.90	TFAF	27 / TRF17	YDA 63M4
	12	126	109	4500	1.05	TF	27 / TRF17	YDA 63M4
	14	110	96	4500	1.20	TFF	27 / TRF17	YDA 63M4
	3.1	555	281.71	19600	2.7	TFA	77	YDA 63L6
	3.3	520	262.93	19700	2.9	TFAF	77	YDA 63L6
	3.9	445	225.79	19800	3.4	TF	77	YDA 63L6
						TFF	77	YDA 63L6
	3.8	450	228.99	12600	1.80	TFA	67	YDA 63L6
	4.5	385	195.39	12900	2.1	TFAF	67	YDA 63L6
	5.1	340	170.85	13000	2.4	TF	67	YDA 63L6
						TFF	67	YDA 63L6
	5.8	300	228.99	13000	2.8	TFA	67	YDA 63M4
	6.8	255	195.39	13000	3.2	TFAF	67	YDA 63M4
	7.7	225	170.85	13000	3.7	TF	67	YDA 63M4
						TFF	67	YDA 63M4
	4.4	395	199.70	10600	1.50	TFA	57	YDA 63L6
	4.7	365	183.60	10800	1.65	TFAF	57	YDA 63L6
	5.5	310	157.09	11100	1.95	TF	57	YDA 63L6
	6.4	270	136.16	11300	2.2	TFF	57	YDA 63L6
	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	57	YDA 63M4
	7.2	240	183.60	11500	2.5	TFAF	57	YDA 63M4
	8.4	205	157.09	11500	2.9	TF	57	YDA 63M4
	9.7	177	136.16	11500	3.4	TFF	57	YDA 63M4
	10	166	127.27	11500	3.6			
	4.6	375	190.76	6240	1.05	TFA	47	YDA 63L6
	5.0	345	175.38	6600	1.15	TFAF	47	YDA 63L6
	5.8	295	150.06	7090	1.35	TF	47	YDA 63L6
	6.7	255	130.07	7410	1.55	TFF	47	YDA 63L6
	7.2	240	121.57	7530	1.65			
	6.9	250	190.76	7470	1.60	TFA	47	YDA 63M4
	7.5	230	175.38	7610	1.75	TFAF	47	YDA 63M4
8.8	195	150.06	7800	2.1	TF	47	YDA 63M4	
10	169	130.07	7920	2.4	TFF	47	YDA 63M4	
11	158	121.57	7970	2.5				
7.4	235	117.88	3750	0.85	TFA	37	YDA 63L6	
8.7	198	100.36	4320	1.00	TFAF	37	YDA 63L6	
10	171	86.53	4660	1.15	TF	37	YDA 63L6	
11	159	80.65	4790	1.25	TFF	37	YDA 63L6	
12	139	70.50	4970	1.45				
10	167	128.51	4700	1.20	TFA	37	YDA 63M4	
11	154	117.88	4850	1.30	TFAF	37	YDA 63M4	
13	131	100.36	5050	1.55	TF	37	YDA 63M4	
15	113	86.53	5180	1.75	TFF	37	YDA 63M4	
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				

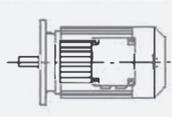
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
0.18	12	143	109.9	4500	0.90	TFA 27	YDA 63M4
	14	123	94.76	4500	1.05	TFAF 27	YDA 63M4
	15	115	88.32	4500	1.15	TF 27	YDA 63M4
	17	101	77.21	4500	1.30	TFF 27	YDA 63M4
	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 27	YDA 63M4
	49	35	27.18	3950	3.7	TFAF 27	YDA 63M4
	57	30	23.25	3780	4.3	TF 27	YDA 63M4
	65	26	20.15	3630	5.0	TFF 27	YDA 63M4
	70	25	18.84	3560	5.3		
	81	21	16.28	3410	6.1		
	95	18	13.84	3240	7.2	TFA 27	YDA 63M4
	107	16	12.35	3140	8.1	TFAF 27	YDA 63M4
	125	14	10.55	2990	9.5	TF 27	YDA 63M4
	134	13	9.88	2930	10	TFF 27	YDA 63M4
	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 27	YDA 63S2
	394	4.4	6.91	2080	26	TFAF 27	YDA 63S2
	441	3.9	6.17	2010	28	TF 27	YDA 63S2
	516	3.3	5.27	1910	30	TFF 27	YDA 63S2
551	3.1	4.93	1870	31			
655	2.6	4.16	1770	34			
0.25	0.15	13300	8831	87900	0.90	TFA 127 / TRF77	YDA 63L4
	0.17	11500	7643	90000	1.05	TFAF 127 / TRF77	YDA 63L4
	0.19	10500	6715	90000	1.15	TF 127 / TRF77	YDA 63L4
	0.22	9240	5925	90000	1.30	TFF 127 / TRF77	YDA 63L4
	0.25	7950	5153	90000	1.50		
	0.29	6890	4533	90000	1.75		
	0.22	9050	5954	46000	0.85	TFA 107 / TRF77	YDA 63L4
	0.25	7890	5223	49300	0.95	TFAF 107 / TRF77	YDA 63L4
	0.28	7120	4567	51300	1.10	TF 107 / TRF77	YDA 63L4
	0.37	5430	3521	55300	1.40	TFF 107 / TRF77	YDA 63L4
	0.43	4790	3037	56800	1.60	TFA 107 / TRF77	YDA 63L4
	0.47	4340	2756	57700	1.75	TFAF 107 / TRF77	YDA 63L4
	0.55	3730	2369	59000	2.1	TF 107 / TRF77	YDA 63L4
	0.63	3260	2068	59900	2.4	TFF 107 / TRF77	YDA 63L4
	0.81	2490	1597	61300	3.1		
	0.93	2160	1401	61900	3.6		
	0.45	4680	2907	27500	0.90	TFA 97 / TRF57	YDA 63L4
	0.51	4180	2553	30300	1.05	TFAF 97 / TRF57	YDA 63L4
	0.58	3680	2245	31600	1.15	TF 97 / TRF57	YDA 63L4
	0.66	3200	1970	32800	1.35	TFF 97 / TRF57	YDA 63L4
	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 87 / TRF57	YDA 63L4
	0.76	2800	1709	23700	1.05	TFAF 87 / TRF57	YDA 63L4
0.87	2450	1493	25000	1.25	TF 87 / TRF57	YDA 63L4	
1.0	2050	1300	26300	1.45	TFF 87 / TRF57	YDA 63L4	

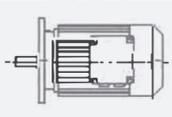
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	fs				
0.25	1.1	1830	1148	26900	1.65	TFA	87 / TRF57	YDA 63L4	
	1.3	1600	1010	27600	1.90	TFAF	87 / TRF57	YDA 63L4	
	1.5	1420	887	28000	2.1	TF	87 / TRF57	YDA 63L4	
	1.7	1230	780	28500	2.4	TFF	87 / TRF57	YDA 63L4	
	1.9	1050	674	28900	2.9				
	1.2	1740	1053	13900	0.85	TFA	77 / TRF37	YDA 63L4	
	1.4	1500	910	15700	1.00	TFAF	77 / TRF37	YDA 63L4	
	1.6	1300	810	16900	1.15	TF	77 / TRF37	YDA 63L4	
	1.8	1140	710	17700	1.30	TFF	77 / TRF37	YDA 63L4	
	2.1	1000	615	18300	1.50	TFA	77 / TRF37	YDA 63L4	
	2.4	880	538	18700	1.70	TFAF	77 / TRF37	YDA 63L4	
	2.7	780	480	19000	1.95	TF	77 / TRF37	YDA 63L4	
	3.1	660	413	19400	2.3	TFF	77 / TRF37	YDA 63L4	
	2.3	930	572	9150	0.90	TFA	67 / TRF37	YDA 63L4	
	2.6	810	509	10400	1.00	TFAF	67 / TRF37	YDA 63L4	
	3.0	700	437	11200	1.15	TF	67 / TRF37	YDA 63L4	
							TFF	67 / TRF37	YDA 63L4
	2.6	830	500	10200	1.00	TFA	67 / TRF37	YDA 63L4	
	2.9	760	454	10800	1.10	TFAF	67 / TRF37	YDA 63L4	
	3.3	655	392	11600	1.25	TF	67 / TRF37	YDA 63L4	
	3.9	550	333	12200	1.50	TFF	67 / TRF37	YDA 63L4	
	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	57 / TRF37	YDA 63L4	
	3.9	540	338	9640	1.10	TFAF	57 / TRF37	YDA 63L4	
	5.1	410	255	10500	1.45	TF	57 / TRF37	YDA 63L4	
							TFF	57 / TRF37	YDA 63L4
	3.4	640	382	7390	0.95	TFA	57 / TRF37	YDA 63L4	
	3.9	550	330	9570	1.10	TFAF	57 / TRF37	YDA 63L4	
	4.4	495	298	9950	1.20	TF	57 / TRF37	YDA 63L4	
	5.0	435	262	10300	1.35	TFF	57 / TRF37	YDA 63L4	
	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	47 / TRF17	YDA 63L4	
	6.0	360	218	6470	1.10	TFAF	47 / TRF17	YDA 63L4	
	6.7	315	193	6920	1.25	TF	47 / TRF17	YDA 63L4	
	7.5	285	175	7180	1.40	TFF	47 / TRF17	YDA 63L4	
	5.1	415	253	4980	0.95	TFA	47 / TRF17	YDA 63L4	
	6.0	365	217	6380	1.10	TFAF	47 / TRF17	YDA 63L4	
	6.9	320	190	6900	1.25	TF	47 / TRF17	YDA 63L4	
	7.3	295	178	7090	1.35	TFF	47 / TRF17	YDA 63L4	
	8.7	250	149	7480	1.60				
	9.9	215	131	7670	1.85				
	8.9	245	145	3420	0.80	TFA	37 / TRF17	YDA 63L4	
	10	215	129	4040	0.90	TFAF	37 / TRF17	YDA 63L4	
11	198	118	4320	1.00	TF	37 / TRF17	YDA 63L4		
13	164	98	4740	1.20	TFF	37 / TRF17	YDA 63L4		
15	144	87	4940	1.40					
3.1	765	281.71	19100	1.95	TFA	77	YDA 71D6		
3.4	715	262.93	19200	2.1	TFAF	77	YDA 71D6		
3.9	615	225.79	19500	2.5	TF	77	YDA 71D6		
4.4	540	198.31	19600	2.8	TFF	77	YDA 71D6		
4.7	510	188.40	19700	2.9					
3.8	620	228.99	11800	1.30	TFA	67	YDA 71D6		
4.5	530	195.39	12300	1.55	TFAF	67	YDA 71D6		
5.2	465	170.85	12600	1.75	TF	67	YDA 71D6		
5.4	440	162.31	12700	1.85	TFF	67	YDA 71D6		
6.2	385	142.40	12900	2.1					

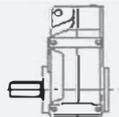
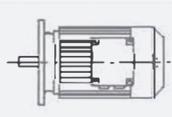
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
0.25	5.7	420	228.99	12700	1.95	TFA 67	YDA 63L4
	6.7	360	195.39	13000	2.3	TFAF 67	YDA 63L4
	7.6	315	170.85	13000	2.6	TF 67	YDA 63L4
	8.0	300	162.31	13000	2.8	TFF 67	YDA 63L4
	9.1	260	142.40	13000	3.1		
	4.4	540	199.70	9630	1.10	TFA 57	YDA71D6
	4.8	500	183.60	9940	1.20	TFAF 57	YDA71D6
	5.6	425	157.09	10400	1.40	TF 57	YDA71D6
	6.5	370	136.16	10800	1.60	TFF 57	YDA71D6
	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 57	YDA 63L4
	7.1	335	183.60	10900	1.80	TFAF 57	YDA 63L4
	8.3	290	157.09	11200	2.1	TF 57	YDA 63L4
	9.6	250	136.16	11400	2.4	TFF 57	YDA 63L4
	10	235	127.27	11500	2.6		
	12	200	110.01	11500	3.0		
	5.9	405	150.06	5750	1.00	TFA 47	YDA71D6
	6.8	355	130.07	6530	1.15	TFAF 47	YDA71D6
	7.2	330	121.57	6770	1.20	TF 47	YDA71D6
	8.4	285	105.09	7190	1.40	TFF 47	YDA71D6
	6.8	350	190.76	6550	1.15	TFA 47	YDA 63L4
	7.4	320	175.38	6850	1.25	TFAF 47	YDA 63L4
	8.7	275	150.06	7270	1.45	TF 47	YDA 63L4
	10	240	130.07	7540	1.65	TFF 47	YDA 63L4
	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 37	YDA 63L4
	11	215	117.88	4040	0.90	TFAF 37	YDA 63L4
	13	184	100.36	4500	1.10	TF 37	YDA 63L4
	15	159	86.53	4790	1.25	TFF 37	YDA 63L4
	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 27	YDA 63L4
	18	133	72.37	4500	1.00	TFAF 27	YDA 63L4
	20	117	63.86	4500	1.10	TF 27	YDA 63L4
	23	104	56.62	4500	1.25	TFF 27	YDA 63L4
	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 27	YDA 63L4	
48	50	27.18	3840	2.6	TFAF 27	YDA 63L4	
56	43	23.25	3690	3.0	TF 27	YDA 63L4	
65	37	20.15	3550	3.5	TFF 27	YDA 63L4	
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			

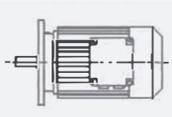
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	f _s			
0.25	132	18	9.88	2900	7.2	TFA	27	YDA 63L4
	138	17	9.40	2840	7.5	TFAF	27	YDA 63L4
	160	15	8.13	2720	8.3	TF	27	YDA 63L4
	188	13	6.91	2590	9.0	TFF	27	YDA 63L4
	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	27	YDA 63M2
	385	6.2	6.91	2080	18	TFAF	27	YDA 63M2
	431	5.5	6.17	2000	20	TF	27	YDA 63M2
	505	4.7	5.27	1910	21	TFF	27	YDA 63M2
	539	4.4	4.93	1870	22			
	640	3.7	4.16	1770	24			
0.37	0.21	15000	6715	84600	0.80	TFA	127 / TRF77	YDA 71D4
	0.23	13200	5925	88100	0.90	TFAF	127 / TRF77	YDA 71D4
	0.27	11400	5153	90000	1.05	TF	127 / TRF77	YDA 71D4
	0.30	9930	4533	90000	1.20	TFF	127 / TRF77	YDA 71D4
	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	107 / TRF77	YDA 71D4
	0.50	6220	2756	53500	1.25	TFAF	107 / TRF77	YDA 71D4
	0.58	5350	2369	55500	1.45	TF	107 / TRF77	YDA 71D4
	0.67	4670	2068	57000	1.65	TFF	107 / TRF77	YDA 71D4
	0.86	3580	1597	59300	2.2			
	0.70	4540	1970	29200	0.95	TFA	97 / TRF57	YDA 71D4
	0.80	4000	1722	30800	1.10	TFAF	97 / TRF57	YDA 71D4
	0.90	3550	1527	32000	1.20	TF	97 / TRF57	YDA 71D4
	1.0	3000	1327	33300	1.45	TFF	97 / TRF57	YDA 71D4
	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	87 / TRF57	YDA 71D4
	1.2	2620	1148	24400	1.15	TFAF	87 / TRF57	YDA 71D4
	1.4	2280	1010	25600	1.30	TF	87 / TRF57	YDA 71D4
	1.6	2020	887	26400	1.50	TFF	87 / TRF57	YDA 71D4
	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	77 / TRF37	YDA 71D4
	1.9	1620	710	14900	0.95	TFAF	77 / TRF37	YDA 71D4
	2.2	1420	615	16200	1.05	TF	77 / TRF37	YDA 71D4
	2.6	1240	538	17200	1.20	TFF	77 / TRF37	YDA 71D4
	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	67 / TRF37	YDA 71D4
	4.1	785	338	10600	1.05	TFAF	67 / TRF37	YDA 71D4
	4.5	705	305	11200	1.15	TF	67 / TRF37	YDA 71D4
	5.4	590	257	11900	1.40	TFF	67 / TRF37	YDA 71D4
	6.0	525	231	12300	1.55			
	5.4	585	255	9330	1.05	TFA	57 / TRF37	YDA 71D4
6.9	455	201	10200	1.30	TFAF	57 / TRF37	YDA 71D4	
7.6	415	181	10500	1.45	TF	57 / TRF37	YDA 71D4	
					TFF	57 / TRF37	YDA 71D4	
5.3	620	262	9070	0.95	TFA	57 / TRF37	YDA 71D4	
6.1	525	226	9740	1.15	TFAF	57 / TRF37	YDA 71D4	
6.9	465	200	10200	1.30	TF	57 / TRF37	YDA 71D4	
8.1	395	170	10600	1.50	TFF	57 / TRF37	YDA 71D4	

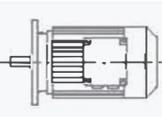
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
0.37	9.1	350	152	10900	1.70	TFA	57 / TRF37	YDA71D4
	10	310	134	11100	1.95	TFAF	57 / TRF37	YDA71D4
						TF	57 / TRF37	YDA71D4
						TFF	57 / TRF37	YDA71D4
	7.9	405	175	5860	1.00	TFA	47 / TRF17	YDA71D4
	9.4	340	147	6660	1.15	TFAF	47 / TRF17	YDA71D4
	11	300	130	7050	1.35	TF	47 / TRF17	YDA71D4
						TFF	47 / TRF17	YDA71D4
	2.5	1410	270.68	28100	2.1	TFA	87	YDA90S8
	2.7	1330	255.37	28200	2.3	TFAF	87	YDA90S8
	3.0	1190	228.93	28600	2.5	TF	87	YDA90S8
	3.5	1020	197.20	28900	2.9	TFF	87	YDA90S8
	3.3	1060	270.68	28800	2.8	TFA	87	YDA80K6
	3.5	1000	255.37	29000	3.0	TFAF	87	YDA80K6
	3.9	900	228.93	29200	3.3	TF	87	YDA80K6
						TFF	87	YDA80K6
	4.0	890	225.79	18700	1.70	TFA	77	YDA80K6
	4.5	780	198.31	19100	1.95	TFAF	77	YDA80K6
	4.8	740	188.40	19200	2.0	TF	77	YDA80K6
	5.4	655	166.47	19400	2.3	TFF	77	YDA80K6
	6.3	560	142.27	19600	2.7			
	4.9	720	281.71	19200	2.1	TFA	77	YDA71D4
	5.2	675	262.93	19300	2.2	TFAF	77	YDA71D4
	6.1	580	225.79	19500	2.6	TF	77	YDA71D4
	7.0	510	198.31	19700	3.0	TFF	77	YDA71D4
	4.6	765	195.39	10800	1.05	TFA	67	YDA80K6
	5.3	670	170.85	11500	1.20	TFAF	67	YDA80K6
	5.5	635	162.31	11700	1.30	TF	67	YDA80K6
	6.3	560	142.40	12100	1.45	TFF	67	YDA80K6
	7.5	475	120.79	12500	1.75			
	6.0	585	228.99	12000	1.40	TFA	67	YDA71D4
	7.1	500	195.39	12400	1.65	TFAF	67	YDA71D4
	8.1	435	170.85	12700	1.85	TF	67	YDA71D4
	8.5	415	162.31	12800	1.95	TFF	67	YDA71D4
	9.7	365	142.40	12900	2.3			
	11	310	120.79	13000	2.7			
	5.7	615	157.09	9070	0.95	TFA	57	YDA80K6
	6.6	535	136.16	9680	1.10	TFAF	57	YDA80K6
	7.1	500	127.27	9930	1.20	TF	57	YDA80K6
	8.2	430	110.01	10400	1.40	TFF	57	YDA80K6
	6.9	510	199.70	9850	1.15	TFA	57	YDA71D4
	7.5	470	183.60	10100	1.30	TFAF	57	YDA71D4
	8.8	400	157.09	10600	1.50	TF	57	YDA71D4
	10	350	136.16	10900	1.70	TFF	57	YDA71D4
	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			
9.2	385	150.06	6140	1.05	TFA	47	YDA71D4	
11	335	130.07	6740	1.20	TFAF	47	YDA71D4	
13	270	105.09	7320	1.50	TF	47	YDA71D4	
15	230	89.29	7600	1.75	TFF	47	YDA71D4	
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	37	YDA71D4	
17	205	80.65	4200	0.95	TFAF	37	YDA71D4	
20	181	70.50	4550	1.10	TF	37	YDA71D4	
21	169	66.09	4680	1.20	TFF	37	YDA71D4	
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				

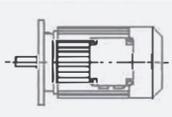
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
0.37	31	112	43.83	5180	1.80	TFA 37	YDA71D4
	36	98	38.31	5270	2.0	TFAF 37	YDA71D4
	38	92	35.91	5300	2.2	TF 37	YDA71D4
	44	81	31.69	5300	2.5	TFF 37	YDA71D4
	49	72	28.09	5140	2.8		
	58	61	23.88	4930	3.3		
	24	145	56.62	4080	0.90	TFA 27	YDA71D4
	28	129	50.19	4010	1.00	TFAF 27	YDA71D4
	30	120	46.78	3970	1.10	TF 27	YDA71D4
	34	105	40.89	3880	1.25	TFF 27	YDA71D4
	36	98	38.33	3840	1.35		
	41	87	33.83	3750	1.50		
	47	76	29.56	3650	1.70	TFA 27	YDA71D4
	51	70	27.18	3580	1.85	TFAF 27	YDA71D4
	59	60	23.25	3460	2.2	TF 27	YDA71D4
	68	52	20.15	3340	2.5	TFF 27	YDA71D4
	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 27	YDA63L2
	384	9.2	6.91	2050	12	TFAF 27	YDA63L2
	430	8.2	6.17	1980	13	TF 27	YDA63L2
503	7.0	5.27	1890	14	TFF 27	YDA63L2	
537	6.6	4.93	1850	15			
638	5.5	4.16	1750	16			
0.55	0.22	20500	6295	91800	0.90	TFA 157 / TRF97	YDA80K4
	0.25	17200	5404	102700	1.05	TFAF 157 / TRF97	YDA80K4
	0.49	8820	2780	118800	2.0	TF 157 / TRF97	YDA80K4
						TFF 157 / TRF97	YDA80K4
	0.56	7800	2427	120000	2.3	TFA 157 / TRF97	YDA80K4
	0.81	5530	1674	120000	3.3	TFAF 157 / TRF97	YDA80K4
	1.0	4270	1308	120000	4.2	TF 157 / TRF97	YDA80K4
	1.2	3750	1169	120000	4.8	TFF 157 / TRF97	YDA80K4
	0.35	13400	3926	87700	0.90	TFA 127 / TRF77	YDA80K4
	0.39	11800	3454	90000	1.00	TFAF 127 / TRF77	YDA80K4
	0.45	10300	3031	90000	1.15	TF 127 / TRF77	YDA80K4
						TFF 127 / TRF77	YDA80K4
	0.57	8250	2369	48300	0.95	TFA 107 / TRF77	YDA80K4
	0.66	7200	2068	51100	1.05	TFAF 107 / TRF77	YDA80K4
	0.74	6190	1826	53600	1.25	TF 107 / TRF77	YDA80K4
	0.85	5540	1597	55100	1.40	TFF 107 / TRF77	YDA80K4
	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 97 / TRF57	YDA80K4
	1.2	4150	1171	30300	1.05	TFAF 97 / TRF57	YDA80K4
	1.3	3630	1022	31800	1.20	TF 97 / TRF57	YDA80K4
	1.5	3110	898	33100	1.40	TFF 97 / TRF57	YDA80K4
	1.7	2750	784	33900	1.55		
2.0	2380	690	34600	1.80			

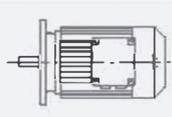
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
0.55	2.2	2100	605	35200	2.1	TFA	97 / TRF57	YDA80K4
	2.6	1830	529	35700	2.4	TFAF	97 / TRF57	YDA80K4
	2.9	1610	467	36100	2.7	TF	97 / TRF57	YDA80K4
	3.4	1390	406	36500	3.1	TFF	97 / TRF57	YDA80K4
	3.7	1240	363	36700	3.5			
	1.5	3110	887	15200	0.95	TFA	87 / TRF57	YDA80K4
	1.7	2720	780	24000	1.10	TFAF	87 / TRF57	YDA80K4
	2.0	2330	674	25400	1.30	TF	87 / TRF57	YDA80K4
	2.2	2120	609	26100	1.40	TFF	87 / TRF57	YDA80K4
	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	77 / TRF37	YDA80K4
	3.3	1450	413	16100	1.05	TFAF	77 / TRF37	YDA80K4
	3.7	1290	367	17000	1.15	TF	77 / TRF37	YDA80K4
	4.2	1150	323	17700	1.30	TFF	77 / TRF37	YDA80K4
	5.3	910	257	9470	0.90	TFA	67 / TRF37	YDA80K4
	5.9	810	231	10400	1.00	TFAF	67 / TRF37	YDA80K4
	6.6	720	205	11100	1.15	TF	67 / TRF37	YDA80K4
	7.8	615	175	11800	1.35	TFF	67 / TRF37	YDA80K4
	2.5	2140	276.77	35100	2.0	TFA	97	YDA90L8
	2.7	1960	253.41	35500	2.2	TFAF	97	YDA90L8
	3.0	1730	223.88	35900	2.5	TF	97	YDA90L8
						TFF	97	YDA90L8
	2.5	2090	270.68	26200	1.45	TFA	87	YDA90L8
	2.7	1970	255.37	26500	1.50	TFAF	87	YDA90L8
	3.0	1770	228.93	27100	1.70	TF	87	YDA90L8
	3.5	1520	197.20	27800	1.95	TFF	87	YDA90L8
	3.3	1580	270.68	27600	1.90	TFA	87	YDA80N6
	3.5	1490	255.37	27800	2.0	TFAF	87	YDA80N6
	3.9	1340	228.93	28200	2.3	TF	87	YDA80N6
	4.6	1150	197.20	28700	2.6	TFF	87	YDA80N6
	5.0	1050	179.97	28900	2.9			
	4.0	1320	225.79	16800	1.15	TFA	77	YDA80N6
	4.5	1160	198.31	17600	1.30	TFAF	77	YDA80N6
	4.8	1100	188.40	17900	1.35	TF	77	YDA80N6
	5.4	970	166.47	18400	1.55	TFF	77	YDA80N6
	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	77	YDA80K4
	6.9	765	198.31	19100	1.95	TFAF	77	YDA80K4
	7.2	730	188.40	19200	2.1	TF	77	YDA80K4
	8.2	645	166.47	19400	2.3	TFF	77	YDA80K4
	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	67	YDA80K4
	8.0	660	170.85	11500	1.25	TFAF	67	YDA80K4
8.4	625	162.31	11700	1.30	TF	67	YDA80K4	
9.6	550	142.40	12200	1.50	TFF	67	YDA80K4	
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	57	YDA80K4	
10	525	136.16	9750	1.15	TFAF	57	YDA80K4	
11	490	127.27	9980	1.20	TF	57	YDA80K4	
12	425	110.01	10400	1.40	TFF	57	YDA80K4	
15	360	93.47	10800	1.65				

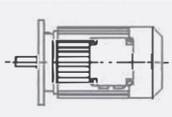
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	fs		
0.55	16	320	83.46	11000	1.85	TFA 57	YDA80K4
	19	280	72.98	11200	2.1	TFAF 57	YDA80K4
	20	265	68.22	11300	2.3	TF 57	YDA80K4
	23	230	58.97	11500	2.6	TFF 57	YDA80K4
	13	405	105.09	5840	1.00	TFA 47	YDA80K4
	15	345	89.29	6620	1.15	TFAF 47	YDA80K4
	17	310	79.72	6990	1.30	TF 47	YDA80K4
	20	265	68.09	7370	1.50	TFF 47	YDA80K4
	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 37	YDA80K4
	25	210	54.54	4140	0.95	TFAF 37	YDA80K4
	26	200	51.70	4300	1.00	TF 37	YDA80K4
	29	182	47.02	4540	1.10	TFF 37	YDA80K4
	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 37	YDA80K4
	66	79	20.57	4540	2.5	TFAF 37	YDA80K4
	71	74	19.27	4470	2.7	TF 37	YDA80K4
	80	66	17.03	4340	3.0	TFF 37	YDA80K4
	95	55	14.33	4150	3.6		
	35	150	77.21	3420	0.85	TFA 27	YDA71D2
	37	141	72.37	3410	0.90	TFAF 27	YDA71D2
	42	124	63.86	3360	1.05	TF 27	YDA71D2
	48	110	56.62	3310	1.20	TFF 27	YDA71D2
	54	98	50.19	3250	1.35		
	58	90	23.25	3210	1.45	TFA 27	YDA80K4
	67	78	20.15	3130	1.65	TFAF 27	YDA80K4
	72	73	18.84	3090	1.80	TF 27	YDA80K4
	84	63	16.28	3000	2.1	TFF 27	YDA80K4
	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 27	YDA71D2	
391	13	6.91	2000	8.5	TFAF 27	YDA71D2	
438	12	6.17	1930	9.1	TF 27	YDA71D2	
513	10	5.27	1840	9.8	TFF 27	YDA71D2	
547	9.6	4.93	1810	10			
650	8.1	4.16	1720	11			
0.75	0.50	12200	2780	113700	1.45	TFA 157 / TRF97	YDA80N4
						TFAF 157 / TRF97	YDA80N4
						TF 157 / TRF97	YDA80N4
						TFF 157 / TRF97	YDA80N4
	0.57	10800	2427	116000	1.65	TFA 157 / TRF97	YDA80N4
	0.82	7630	1674	120000	2.4	TFAF 157 / TRF97	YDA80N4
	1.1	5910	1308	120000	3.1	TF 157 / TRF97	YDA80N4
	1.2	5210	1169	120000	3.5	TFF 157 / TRF97	YDA80N4

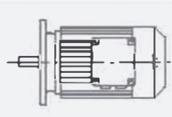
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
0.75	0.46	14000	3031	86500	0.85	TFA 127 / TRF77	YDA 80N4
						TFAF 127 / TRF77	YDA 80N4
						TF 127 / TRF77	YDA 80N4
						TFF 127 / TRF77	YDA 80N4
	0.52	12600	2672	89200	0.95	TFA 127 / TRF77	YDA 80N4
	0.59	11100	2357	90000	1.10	TFAF 127 / TRF77	YDA 80N4
	0.68	9540	2038	90000	1.25	TF 127 / TRF77	YDA 80N4
	0.77	8310	1784	90000	1.45	TFF 127 / TRF77	YDA 80N4
	0.86	7450	1606	90000	1.60		
	0.76	8470	1826	47600	0.90	TFA 107 / TRF77	YDA 80N4
	0.86	7530	1597	50200	1.00	TFAF 107 / TRF77	YDA 80N4
	0.98	6580	1401	52600	1.15	TF 107 / TRF77	YDA 80N4
	1.1	5770	1243	54600	1.35	TFF 107 / TRF77	YDA 80N4
	1.3	5130	1087	56000	1.50		
	1.4	4410	950	57600	1.75		
	1.7	3840	834	58700	2.0		
	2.2	2980	640	60400	2.6		
	3.2	2030	436	62100	3.8		
	1.4	4900	1022	18500	0.90	TFA 97 / TRF57	YDA 80N4
	1.5	4230	898	30100	1.00	TFAF 97 / TRF57	YDA 80N4
	1.8	3730	784	31500	1.15	TF 97 / TRF57	YDA 80N4
	2.0	3250	690	32700	1.30	TFF 97 / TRF57	YDA 80N4
	2.3	2860	605	33600	1.50	TFA 97 / TRF57	YDA 80N4
	2.6	2490	529	34400	1.75	TFAF 97 / TRF57	YDA 80N4
	3.0	2200	467	35000	1.95	TF 97 / TRF57	YDA 80N4
	3.4	1890	406	35600	2.3	TFF 97 / TRF57	YDA 80N4
	3.8	1700	363	35900	2.5		
	2.0	3170	674	11300	0.95	TFA 87 / TRF57	YDA 80N4
	2.3	2880	609	23400	1.05	TFAF 87 / TRF57	YDA 80N4
	2.7	2430	515	25000	1.25	TF 87 / TRF57	YDA 80N4
	3.1	2140	452	26000	1.40	TFF 87 / TRF57	YDA 80N4
	4.0	1610	345	27500	1.85		
	3.8	1750	367	13800	0.85	TFA 77 / TRF37	YDA 80N4
	4.3	1550	323	15400	0.95	TFAF 77 / TRF37	YDA 80N4
	4.9	1340	280	16700	1.10	TF 77 / TRF37	YDA 80N4
						TFF 77 / TRF37	YDA 80N4
	2.7	2640	254.40*	61100	2.9	TFA 107	YDA 100M8
						TFAF 107	YDA 100M8
						TF 107	YDA 100M8
						TFF 107	YDA 100M8
	2.5	2870	276.77	33600	1.50	TFA 97	YDA 100M8
	2.7	2630	253.41	34100	1.65	TFAF 97	YDA 100M8
	3.1	2320	223.88	34800	1.85	TF 97	YDA 100M8
						TFF 97	YDA 100M8
	3.2	2200	276.77	35000	1.95	TFA 97	YDA 90S6
	3.6	2020	253.41	35400	2.1	TFAF 97	YDA 90S6
	4.0	1780	223.88	35800	2.4	TF 97	YDA 90S6
						TFF 97	YDA 90S6
	3.3	2150	270.68	26000	1.40	TFA 87	YDA 90S6
	3.5	2030	255.37	26300	1.50	TFAF 87	YDA 90S6
3.9	1820	228.93	27000	1.65	TF 87	YDA 90S6	
4.6	1570	197.20	27600	1.90	TFF 87	YDA 90S6	
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 87	YDA 80N4	
5.4	1330	255.37	28200	2.3	TFAF 87	YDA 80N4	
6.0	1190	228.93	28600	2.5	TF 87	YDA 80N4	
					TFF 87	YDA 80N4	
4.5	1580	198.31	15200	0.95	TFA 77	YDA 90S6	
4.8	1500	188.40	15700	1.00	TFAF 77	YDA 90S6	
5.4	1320	166.47	16800	1.15	TF 77	YDA 90S6	
6.3	1130	142.27	17800	1.30	TFF 77	YDA 90S6	
6.9	1040	130.42	18200	1.45			

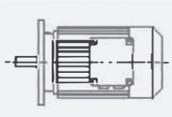
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	f _s		
0.75	6.1	1170	225.79	17600	1.30	TFA 77	YDA 80N4
	7.0	1030	198.31	18200	1.45	TFAF 77	YDA 80N4
	7.3	980	188.40	18400	1.55	TF 77	YDA 80N4
						TFF 77	YDA 80N4
	8.3	860	166.47	18800	1.75	TFA 77	YDA 80N4
	9.7	740	142.27	19200	2.0	TFAF 77	YDA 80N4
	11	675	130.42	19300	2.2	TF 77	YDA 80N4
	12	595	114.45	19500	2.5	TFF 77	YDA 80N4
	13	565	108.46*	19600	2.7		
	8.1	890	170.85	9670	0.90	TFA 67	YDA 80N4
	8.5	840	162.31	10100	0.95	TFAF 67	YDA 80N4
	9.7	740	142.40	11000	1.10	TF 67	YDA 80N4
	11	625	120.79	11700	1.30	TFF 67	YDA 80N4
	13	565	109.04	12100	1.45	TFA 67	YDA 80N4
	14	500	95.94	12400	1.65	TFAF 67	YDA 80N4
	15	470	90.59	12500	1.75	TF 67	YDA 80N4
	17	415	79.76	12800	2.0	TFF 67	YDA 80N4
	20	350	67.65	13000	2.3		
	23	315	61.07	13000	2.6		
	11	660	127.27	5290	0.90	TFA 57	YDA 80N4
	13	570	110.01	9420	1.05	TFAF 57	YDA 80N4
	15	485	93.47	10000	1.25	TF 57	YDA 80N4
	17	435	83.46	10400	1.40	TFF 57	YDA 80N4
	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 47	YDA 80N4
	20	355	68.09	6520	1.15	TFAF 47	YDA 80N4
	21	340	65.36	6680	1.20	TF 47	YDA 80N4
						TFF 47	YDA 80N4
	24	295	56.49	7120	1.35	TFA 47	YDA 80N4
	29	250	48.00*	7470	1.60	TFAF 47	YDA 80N4
	32	220	42.86	7640	1.80	TF 47	YDA 80N4
	38	190	36.61	7820	2.1	TFF 47	YDA 80N4
	40	178	34.29	7850	2.3		
	48	150	28.88	7540	2.7		
	29	245	47.02	3530	0.80	TFA 37	YDA 80N4
	31	230	43.83	3850	0.90	TFAF 37	YDA 80N4
	36	199	38.31	4310	1.00	TF 37	YDA 80N4
	38	186	35.91	4480	1.05	TFF 37	YDA 80N4
	44	165	31.69	4620	1.20		
	49	146	28.09	4540	1.35		
	58	123	23.63	4400	1.65	TFA 37	YDA 80N4
	67	107	20.57	4290	1.85	TFAF 37	YDA 80N4
	72	100	19.27	4240	2.0	TF 37	YDA 80N4
	81	88	17.03	4130	2.3	TFF 37	YDA 80N4
96	74	14.33	3970	2.7			
107	67	12.87	3870	3.0			
59	121	23.25	2920	1.10	TFA 27	YDA 80N4	
68	105	20.15	2870	1.25	TFAF 27	YDA 80N4	
73	98	18.84	2850	1.35	TF 27	YDA 80N4	
85	85	16.28	2790	1.55	TFF 27	YDA 80N4	
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			

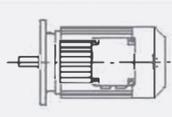
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
0.75	224	32	6.17	2250	3.4	TFA 27	MB 5 ; \$B(
	262	27	5.27	2160	3.7	TFAF 27	MB 5 ; \$B(
	280	26	4.93	2130	3.8	TF 27	MB 5 ; \$B(
	332	22	4.16	2030	4.0	TFF 27	MB 5 ; \$B(
	332	22	8.13	2030	5.7	TFA 27	MB 5 ; \$? &
	391	18	6.91	1950	6.2	TFAF 27	MB 5 ; \$? &
	438	16	6.17	1890	6.7	TF 27	MB 5 ; \$? &
						TFF 27	MB 5 ; \$? &
	513	14	5.27	1810	7.1	TFA 27	MB 5 ; \$? &
	547	13	4.93	1770	7.3	TFAF 27	MB 5 ; \$? &
	650	11	4.16	1690	7.9	TF 27	MB 5 ; \$? &
						TFF 27	MB 5 ; \$? &
1.1	0.50	18200	2780	99600	1.00	TFA 157 / TRF97	MB 5 ; \$G(
						TFAF 157 / TRF97	MB 5 ; \$G(
						TF 157 / TRF97	MB 5 ; \$G(
						TFF 157 / TRF97	MB 5 ; \$G(
	0.58	16100	2427	105500	1.10	TFA 157 / TRF97	MB 5 ; \$G(
	0.64	14400	2185	109500	1.25	TFAF 157 / TRF97	MB 5 ; \$G(
	0.72	12800	1944	112700	1.40	TF 157 / TRF97	MB 5 ; \$G(
	0.84	11300	1674	115300	1.60	TFF 157 / TRF97	MB 5 ; \$G(
	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 127 / TRF77	MB 5 ; \$G(
	0.79	12200	1784	90000	1.00	TFAF 127 / TRF77	MB 5 ; \$G(
	0.87	11000	1606	90000	1.10	TF 127 / TRF77	MB 5 ; \$G(
	1.0	9480	1390	90000	1.25	TFF 127 / TRF77	MB 5 ; \$G(
	1.2	8280	1220	90000	1.45		
	1.3	7360	1077	90000	1.65		
	1.1	8480	1243	47600	0.90	TFA 107 / TRF77	MB 5 ; \$G(
	1.3	7490	1087	50300	1.00	TFAF 107 / TRF77	MB 5 ; \$G(
	1.5	6480	950	52900	1.20	TF 107 / TRF77	MB 5 ; \$G(
	1.7	5660	834	54800	1.35	TFF 107 / TRF77	MB 5 ; \$G(
	1.9	4970	736	56400	1.55		
	2.2	4380	640	57600	1.75		
	2.0	4750	690	25100	0.90	TFA 97 / TRF57	MB 5 ; \$G(
	2.3	4170	605	30300	1.05	TFAF 97 / TRF57	MB 5 ; \$G(
	2.6	3640	529	31700	1.20	TF 97 / TRF57	MB 5 ; \$G(
	3.0	3210	467	32800	1.35	TFF 97 / TRF57	MB 5 ; \$G(
	3.5	2770	406	33800	1.55		
	3.9	2490	363	34400	1.75		
	3.1	3130	452	14100	0.95	TFA 87 / TRF57	MB 5 ; \$G(
	4.1	2360	345	25300	1.25	TFAF 87 / TRF57	MB 5 ; \$G(
	4.7	2050	300	26300	1.45	TF 87 / TRF57	MB 5 ; \$G(
	5.6	1700	249	27300	1.75	TFF 87 / TRF57	MB 5 ; \$G(
	2.6	3990	254.40*	58500	1.95	TFA 107	MB 5 ; \$\$\$@
	3.1	3380	215.37	59700	2.3	TFAF 107	MB 5 ; \$\$\$@
	3.4	3120	199.31	60200	2.5	TF 107	MB 5 ; \$\$\$@
	3.8	2800	178.64	60800	2.7	TFF 107	MB 5 ; \$\$\$@
	3.3	3160	276.77	32900	1.35	TFA 97	MB 5 ; \$@
	3.6	2890	253.41	33600	1.50	TFAF 97	MB 5 ; \$@
	4.1	2560	223.88	34300	1.70	TF 97	MB 5 ; \$@
	4.8	2170	189.92	35100	2.0	TFF 97	MB 5 ; \$@
	5.3	2000	174.87	35400	2.2		
	5.1	2080	276.77	35200	2.1	TFA 97	MB 5 ; \$G(
	5.5	1900	253.41	35600	2.3	TFAF 97	MB 5 ; \$G(
	6.2	1680	223.88	36000	2.6	TF 97	MB 5 ; \$G(
					TFF 97	MB 5 ; \$G(

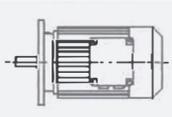
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
1.1	3.4	3090	270.68	16000	0.95	TFA 87	YDA 90L6
	3.6	2920	255.37	22700	1.05	TFAF 87	YDA 90L6
	4.0	2610	228.93	24400	1.15	TF 87	YDA 90L6
						TFF 87	YDA 90L6
	4.7	2250	197.2	25700	1.35	TFA 87	YDA 90L6
	5.1	2050	179.97	26300	1.45	TFAF 87	YDA 90L6
	5.8	1820	159.61	27000	1.65	TF 87	YDA 90L6
						TFF 87	YDA 90L6
	5.2	2030	270.68	26300	1.50	TFA 87	YDA 90S4
	5.5	1920	255.37	26700	1.55	TFAF 87	YDA 90S4
	6.1	1720	228.93	27200	1.75	TF 87	YDA 90S4
	7.1	1480	197.20	27900	2.0	TFF 87	YDA 90S4
	7.8	1350	179.97	28200	2.2	TFA 87	YDA 90S4
	8.8	1200	159.61	28500	2.5	TFAF 87	YDA 90S4
	10	1010	134.16	29000	3.0	TF 87	YDA 90S4
	11	930	123.29	29100	3.2	TFF 87	YDA 90S4
	7.1	1490	198.31	15800	1.00	TFA 77	YDA 90S4
	7.4	1410	188.40	16300	1.05	TFAF 77	YDA 90S4
	8.4	1250	166.47	17200	1.20	TF 77	YDA 90S4
	9.8	1070	142.27	18000	1.40	TFF 77	YDA 90S4
	11	980	130.42	18400	1.55	TFA 77	YDA 90S4
	12	860	114.45	18800	1.75	TFAF 77	YDA 90S4
	13	810	108.46*	18900	1.85	TF 77	YDA 90S4
	15	710	94.93	19200	2.1	TFF 77	YDA 90S4
	16	640	85.52	19400	2.3		
	19	565	75.02	19600	2.7		
	12	910	120.79	9460	0.90	TFA 67	YDA 90S4
	13	820	109.04	10300	1.00	TFAF 67	YDA 90S4
	15	720	95.94	11100	1.15	TF 67	YDA 90S4
	15	680	90.59	11400	1.20	TFF 67	YDA 90S4
	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 57	YDA 90S4
	19	550	72.98	9590	1.10	TFAF 57	YDA 90S4
	21	510	68.22	9840	1.15	TF 57	YDA 90S4
	24	440	58.97	10300	1.35	TFF 57	YDA 90S4
	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 47	YDA 90S4
29	360	48.00*	6440	1.10	TFAF 47	YDA 90S4	
					TF 47	YDA 90S4	
					TFF 47	YDA 90S4	
33	320	42.86	6860	1.25	TFA 47	YDA 90S4	
38	275	36.61	7280	1.45	TFAF 47	YDA 90S4	
41	255	34.29	7260	1.55	TF 47	YDA 90S4	
48	215	28.88	7040	1.85	TFF 47	YDA 90S4	
45	230	30.86	7130	1.75	TFA 47	YDA 90S4	
48	220	29.32	7060	1.80	TFAF 47	YDA 90S4	
54	193	25.72	6880	2.1	TF 47	YDA 90S4	
64	164	21.82	6640	2.4	TFF 47	YDA 90S4	
71	148	19.70	6490	2.7			
44	240	31.69	3660	0.85	TFA 37	YDA 90S4	
50	210	28.09	3970	0.95	TFAF 37	YDA 90S4	
59	179	23.88	3930	1.10	TF 37	YDA 90S4	
					TFF 37	YDA 90S4	

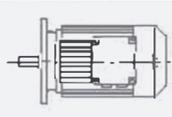
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
1.1	68	154	20.57	3870	1.30	TFA 37	YDA 90S4	
	73	145	19.27	3840	1.40	TFAF 37	YDA 90S4	
	82	128	17.03	3780	1.55	TF 37	YDA 90S4	
	98	108	14.33	3680	1.85	TFF 37	YDA 90S4	
	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 27	YDA 90S4	
	74	141	18.84	2450	0.90	TFAF 27	YDA 90S4	
	86	122	16.28	2440	1.05	TF 27	YDA 90S4	
	101	104	13.84	2420	1.25	TFF 27	YDA 90S4	
	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 27	YDA 80N2	
	391	27	6.91	1860	4.2	TFAF 27	YDA 80N2	
	438	24	6.17	1810	4.5	TF 27	YDA 80N2	
	513	21	5.27	1740	4.9	TFF 27	YDA 80N2	
	547	19	4.93	1710	5.0			
	650	16	4.16	1640	5.4			
	1.5	0.58	22200	2427	83000	0.80	TFA 157 / TRF97	YDA 90L4
		0.65	19800	2185	94400	0.90	TFAF 157 / TRF97	YDA 90L4
		0.73	17600	1944	101300	1.00	TF 157 / TRF97	YDA 90L4
		0.84	15500	1674	107000	1.15	TFF 157 / TRF97	YDA 90L4
		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 127 / TRF77	YDA 90L4	
1.0		13000	1390	88600	0.95	TFAF 127 / TRF77	YDA 90L4	
1.2		11300	1220	90000	1.05	TF 127 / TRF77	YDA 90L4	
1.3		10100	1077	90000	1.20	TFF 127 / TRF77	YDA 90L4	
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 107 / TRF77	YDA 90L4	
1.7		7740	834	49700	1.00	TFAF 107 / TRF77	YDA 90L4	
1.9		6810	736	52100	1.15	TF 107 / TRF77	YDA 90L4	
2.2		5980	640	54100	1.30	TFF 107 / TRF77	YDA 90L4	
2.5		5170	560	55900	1.50			
2.9		4520	489	57400	1.70			
3.2		4070	436	58300	1.90	TFA 107 / TRF77	YDA 90L4	
3.8		3450	370	59500	2.2	TFAF 107 / TRF77	YDA 90L4	
						TF 107 / TRF77	YDA 90L4	
						TFF 107 / TRF77	YDA 90L4	
2.7		4960	529	15500	0.85	TFA 97 / TRF57	YDA 90L4	
3.0		4380	467	29700	1.00	TFAF 97 / TRF57	YDA 90L4	
3.5		3790	406	31300	1.15	TF 97 / TRF57	YDA 90L4	
3.9		3400	363	32400	1.25	TFF 97 / TRF57	YDA 90L4	
4.7		2800	300	23700	1.05	TFA 87 / TRF57	YDA 90L4	
5.7	2320	249	25400	1.30	TFAF 87 / TRF57	YDA 90L4		
					TF 87 / TRF57	YDA 90L4		
					TFF 87 / TRF57	YDA 90L4		

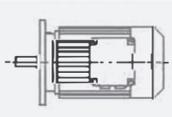
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
1.5	2.8	5210	254.40*	55900	1.50	TFA 107	YDA112M8
	3.2	4410	215.37	57600	1.75	TFAF 107	YDA112M8
	3.5	4080	199.31	58300	1.90	TF 107	YDA112M8
	3.9	3660	178.64	59100	2.1	TFF 107	YDA112M8
	3.6	3960	254.40*	58500	1.95	TFA 107	YDA100M6
	4.3	3350	215.37	59700	2.3	TFAF 107	YDA100M6
	4.6	3100	199.31	60200	2.5	TF 107	YDA100M6
	5.2	2780	178.64	60800	2.8	TFF 107	YDA100M6
	3.3	4310	276.77	29900	1.00	TFA 97	YDA100M6
	3.6	3950	253.41	30900	1.10	TFAF 97	YDA100M6
	4.1	3490	223.88	32100	1.25	TF 97	YDA100M6
	4.8	2960	189.92	33400	1.45	TFF 97	YDA100M6
	5.3	2720	174.87	33900	1.60		
	5.1	2810	276.77	33700	1.55	TFA 97	YDA90L4
	5.6	2570	253.41	34300	1.65	TFAF 97	YDA90L4
	6.3	2270	223.88	34900	1.90	TF 97	YDA90L4
	7.4	1930	189.92	35500	2.2	TFF 97	YDA90L4
	8.1	1780	174.87	35800	2.4		
	5.2	2750	270.68	23900	1.10	TFA 87	YDA90L4
	5.5	2590	255.37	24500	1.15	TFAF 87	YDA90L4
	6.2	2330	228.93	25400	1.30	TF 87	YDA90L4
	7.2	2000	197.20	26400	1.50	TFF 87	YDA90L4
	7.8	1830	179.97	26900	1.65	TFA 87	YDA90L4
	8.8	1620	159.61	27500	1.85	TFAF 87	YDA90L4
	11	1360	134.16	28200	2.2	TF 87	YDA90L4
	13	1110	109.49	28700	2.7	TFF 87	YDA90L4
	14	990	97.89	29000	3.0		
	8.5	1690	166.47	14300	0.90	TFA 77	YDA90L4
	9.9	1450	142.27	16100	1.05	TFAF 77	YDA90L4
	11	1320	130.42	16800	1.15	TF 77	YDA90L4
	12	1160	114.45	17600	1.30	TFF 77	YDA90L4
	13	1100	108.46*	17900	1.35	TFA 77	YDA90L4
	15	960	94.93	18400	1.55	TFAF 77	YDA90L4
	16	870	85.52	18800	1.75	TF 77	YDA90L4
	19	760	75.02	19100	1.95	TFF 77	YDA90L4
	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		
	39	370	36.58	19900	3.0	TFA 77	YDA90L4
	45	320	31.51	20000	4.3	TFAF 77	YDA90L4
						TF 77	YDA90L4
						TFF 77	YDA90L4
	16	920	90.59	9300	0.90	TFA 67	YDA90L4
	18	810	79.76	10400	1.00	TFAF 67	YDA90L4
	21	685	67.65	11400	1.20	TF 67	YDA90L4
	23	620	61.07	11800	1.30	TFF 67	YDA90L4
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 67	YDA90L4	
44	325	32.08	13000	2.5	TFAF 67	YDA90L4	
51	280	27.41	13000	2.9	TF 67	YDA90L4	
56	255	25.13	13000	3.2	TFF 67	YDA90L4	
24	600	58.97	9210	1.00			
28	510	50.10	9860	1.20	TFA 57	YDA90L4	
32	455	44.73	9990	1.30	TFAF 57	YDA90L4	
37	390	38.21	9740	1.55	TF 57	YDA90L4	
39	365	35.79	9620	1.65	TFF 57	YDA90L4	
47	305	30.15	9310	1.95			

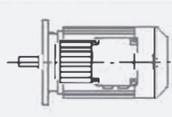
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
1.5	33	435	42.86	575	0.90	TFA 47	YDA 90L4
	39	370	36.61	6300	1.10	TFAF 47	YDA 90L4
	41	350	34.29	6580	1.15	TF 47	YDA 90L4
	49	295	28.88	6500	1.35	TFF 47	YDA 90L4
	46	315	30.86	6550	1.30	TFA 47	YDA 90L4
	48	300	29.32	6510	1.35	TFAF 47	YDA 90L4
	55	260	25.72	6390	1.55	TF 47	YDA 90L4
	65	220	21.82	6230	1.80	TFF 47	YDA 90L4
	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 37	YDA 90L4
	73	196	19.27	3410	1.00	TFAF 37	YDA 90L4
	83	173	17.03	3400	1.15	TF 37	YDA 90L4
	98	146	14.33	3350	1.35	TFF 37	YDA 90L4
	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 27	YDA 90L4
	114	126	12.35	2090	1.05	TFAF 27	YDA 90L4
	134	107	10.55	2090	1.20	TF 27	YDA 90L4
	143	100	9.88	2090	1.30	TFF 27	YDA 90L4
	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		
	344	42	8.13	1810	3.0	TFA 27	YDA 90S2
405	35	6.91	1750	3.2	TFAF 27	YDA 90S2	
454	32	6.17	1710	3.5	TF 27	YDA 90S2	
532	27	5.27	1660	3.7	TFF 27	YDA 90S2	
568	25	4.93	1630	3.8			
674	21	4.16	1570	4.1			
2.2	0.98	18700	1441	98000	0.95	TFA 157 / TRF97	YDA 100M4
						TFAF 157 / TRF97	YDA 100M4
						TF 157 / TRF97	YDA 100M4
						TFF 157 / TRF97	YDA 100M4
	1.1	17900	1308	100700	1.00	TFA 157 / TRF97	YDA 100M4
	1.2	15900	1169	106000	1.15	TFAF 157 / TRF97	YDA 100M4
	1.5	12800	953	112600	1.40	TF 157 / TRF97	YDA 100M4
	1.7	11300	845	115300	1.60	TFF 157 / TRF97	YDA 100M4
	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 127 / TRF77	YDA 100M4
	1.5	12800	930	88900	0.95	TFAF 127 / TRF77	YDA 100M4
	1.7	11300	820	90000	1.05	TF 127 / TRF77	YDA 100M4
	1.9	9960	727	90000	1.20	TFF 127 / TRF77	YDA 100M4
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			

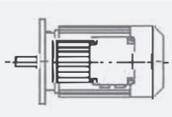
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
2.2	2.2	8830	640	46600	0.85	TFA 107 / TRF77	YDA100M4	
	2.5	7670	560	49800	1.00	TFAF 107 / TRF77	YDA100M4	
	2.9	6700	489	52300	1.15	TF 107 / TRF77	YDA100M4	
	3.2	6010	436	54000	1.30	TFF 107 / TRF77	YDA100M4	
	3.8	5100	370	56100	1.50			
	4.2	4590	333	57200	1.65			
	4.9	3950	285	30900	1.10	TFA 97 / TRF57	YDA100M4	
	5.8	3390	245	32400	1.25	TFAF 97 / TRF57	YDA100M4	
							TF 97 / TRF57	YDA100M4
							TFF 97 / TRF57	YDA100M4
		2.8	7640	254.40*	49900	1.00	TFA 107	YDA132S8
		3.2	6460	215.37	52900	1.20	TFAF 107	YDA132S8
		3.5	5980	199.31	54100	1.30	TF 107	YDA132S8
		3.9	5360	178.64	55500	1.45	TFF 107	YDA132S8
		3.7	5690	254.40*	54800	1.35	TFA 107	YDA112M6
		4.4	4810	215.37	56700	1.60	TFAF 107	YDA112M6
		4.7	4450	199.31	57500	1.70	TF 107	YDA112M6
		5.3	3990	178.64	58400	1.90	TFF 107	YDA112M6
		5.5	3790	254.40*	58900	2.0	TFA 107	YDA100M4
		6.5	3210	215.37	60000	2.4	TFAF 107	YDA100M4
		7.1	2970	199.31	60400	2.6	TF 107	YDA100M4
		7.9	2660	178.64	61000	2.9	TFF 107	YDA100M4
		4.2	5000	223.88	12400	0.85	TFA 97	YDA112M6
		5.0	4240	189.92	30100	1.00	TFAF 97	YDA112M6
		5.4	3910	174.87	31000	1.10	TF 97	YDA112M6
		6.0	3490	156.30	32100	1.25	TFF 97	YDA112M6
		5.1	4120	276.77	30400	1.05	TFA 97	YDA100M4
		5.6	3780	253.41	31400	1.15	TFAF 97	YDA100M4
		6.3	3340	223.88	32500	1.30	TF 97	YDA100M4
		7.4	2830	189.92	33700	1.50	TFF 97	YDA100M4
		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 87	YDA100M4
		7.8	2680	179.97	24200	1.10	TFAF 87	YDA100M4
		8.8	2380	159.61	25200	1.25	TF 87	YDA100M4
		11	2000	134.16	26400	1.50	TFF 87	YDA100M4
		11	1840	123.29	26900	1.65	TFA 87	YDA100M4
		13	1630	109.49	27500	1.85	TFAF 87	YDA100M4
		14	1460	97.89	27900	2.1	TF 87	YDA100M4
		16	1310	88.01	28300	2.3	TFF 87	YDA100M4
		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 77	YDA100M4	
	13	1620	108.46*	14900	0.95	TFAF 77	YDA100M4	
	15	1410	94.93	16300	1.05	TF 77	YDA100M4	
	16	1270	85.52	17100	1.20	TFF 77	YDA100M4	
	19	1120	75.02	17800	1.35	TFA 77	YDA100M4	
	21	990	66.46	18300	1.50	TFAF 77	YDA100M4	
	24	870	58.32	18800	1.75	TF 77	YDA100M4	
	26	820	55.27	18900	1.80	TFF 77	YDA100M4	
	29	720	48.37	19200	2.1			
	32	650	43.58	19400	2.3			
	39	545	36.58	19600	2.0	TFA 77	YDA100M4	
	45	470	31.51	19700	2.9	TFAF 77	YDA100M4	
	49	430	28.75	19800	3.3	TF 77	YDA100M4	
	55	380	25.50*	19900	4.0	TFF 77	YDA100M4	

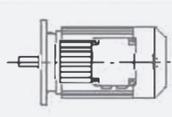
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs				
						Model	Power	Model	Power
2.2	23	910	61.07	9420	0.90	TFA	67	YDA 100M4	67
	26	800	53.73	10500	1.00	TFAF	67	YDA 100M4	67
	28	755	50.74	10800	1.10	TF	67	YDA 100M4	67
	33	645	43.20	11600	1.25	TFF	67	YDA 100M4	67
	36	585	39.26	12000	1.35				
	41	505	34.01	12400	1.45				
	44	480	32.08	12500	1.70	TFA	67	YDA 100M4	67
	51	410	27.41	12800	2.0	TFAF	67	YDA 100M4	67
	56	375	25.13	12900	2.2	TF	67	YDA 100M4	67
	64	330	22.05	13000	2.5	TFF	67	YDA 100M4	67
	67	310	20.90*	13000	2.6				
	77	275	18.29	13000	3.0				
	32	665	44.73	4480	0.90	TFA	57	YDA 100M4	57
	37	570	38.21	8660	1.05	TFAF	57	YDA 100M4	57
	39	535	35.79	8620	1.15	TF	57	YDA 100M4	57
	47	450	30.15	8460	1.30	TFF	57	YDA 100M4	57
	56	370	24.96	8240	1.55	TFA	57	YDA 100M4	57
	67	315	21.17	8020	1.90	TFAF	57	YDA 100M4	57
	74	285	19.11	7870	2.1	TF	57	YDA 100M4	57
	84	250	16.81	7670	2.4	TFF	57	YDA 100M4	57
	89	235	15.88	7580	2.5				
	55	385	25.72	5560	1.05	TFA	47	YDA 100M4	47
	65	325	21.82	5520	1.25	TFAF	47	YDA 100M4	47
	72	295	19.70	5480	1.35	TF	47	YDA 100M4	47
	81	260	17.33	5410	1.55	TFF	47	YDA 100M4	47
	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	37	YDA 100M4	37
	110	192	12.87	2810	1.05	TFAF	37	YDA 100M4	37
	127	165	11.08	2820	1.15	TF	37	YDA 100M4	37
	135	155	10.42	2810	1.20	TFF	37	YDA 100M4	37
	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	27	YDA 90L2	27	
149	141	18.84	1680	0.90	TFAF	27	YDA 90L2	27	
173	122	16.28	1710	1.05	TF	27	YDA 90L2	27	
203	103	13.84	1730	1.25	TFF	27	YDA 90L2	27	
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					
1.2	22000	1169	86000	0.80	TFA	157 / TRF97	YDA 100L4	157 / TRF97	
1.5	17800	953	100800	1.00	TFAF	157 / TRF97	YDA 100L4	157 / TRF97	
1.7	15700	845	106400	1.15	TF	157 / TRF97	YDA 100L4	157 / TRF97	
1.8	14200	764	110000	1.25	TFF	157 / TRF97	YDA 100L4	157 / TRF97	
2.1	12600	680	113000	1.45					
2.4	10600	576	116400	1.70					
3.1	8310	446	119400	2.2					

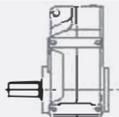
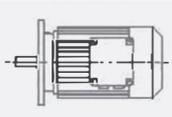
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
3.0	4.6	5630	302	120000	3.2	TFA 157 / TRF97	YDA100L4
	5.1	5070	273	120000	3.6	TFAF 157 / TRF97	YDA100L4
	6.0	4260	232	120000	4.2	TF 157 / TRF97	YDA100L4
	7.1	3620	197	120000	5.0	TFF 157 / TRF97	YDA100L4
	1.9	13800	727	87000	0.85	TFA 127 / TRF77	YDA100L4
	2.2	12300	648	89800	0.95	TFAF 127 / TRF77	YDA100L4
	2.6	10500	549	90000	1.15	TF 127 / TRF77	YDA100L4
	2.8	9410	495	90000	1.30	TFF 127 / TRF77	YDA100L4
	3.2	8300	436	48100	0.95	TFA 107 / TRF77	YDA100L4
	3.8	7040	370	51500	1.10	TFAF 107 / TRF77	YDA100L4
	4.2	6340	333	53200	1.20	TF 107 / TRF77	YDA100L4
	4.8	5540	291	55100	1.40	TFF 107 / TRF77	YDA100L4
	3.7	7750	254.40*	49600	1.00	TFA 107	YDA132S6
	4.4	6560	215.37	52700	1.15	TFAF 107	YDA132S6
	4.7	6070	199.31	53900	1.25	TF 107	YDA132S6
	5.3	5440	178.64	55300	1.40	TFF 107	YDA132S6
	5.5	5210	254.40*	55900	1.50	TFA 107	YDA100L4
	6.5	4410	215.37	57600	1.75	TFAF 107	YDA100L4
	7.0	4080	199.31	58300	1.90	TF 107	YDA100L4
	7.8	3660	178.64	59100	2.1	TFF 107	YDA100L4
	8.7	3300	161.28*	59800	2.3		
	6.2	4580	223.88	29000	0.95	TFA 97	YDA100L4
	7.4	3890	189.92	31100	1.10	TFAF 97	YDA100L4
	8.0	3580	174.87	31900	1.20	TF 97	YDA100L4
						TFF 97	YDA100L4
	9.0	3200	156.30	32800	1.35	TFA 97	YDA100L4
	10	2880	140.71	33600	1.50	TFAF 97	YDA100L4
	11	2610	127.42	34200	1.65	TF 97	YDA100L4
	12	2310	112.99	34800	1.85	TFF 97	YDA100L4
	14	2090	102.16	35200	2.1		
	16	1840	89.85	35700	2.3		
	10	2750	134.16	23900	1.10	TFA 87	YDA100L4
	11	2520	123.29	24700	1.20	TFAF 87	YDA100L4
	13	2240	109.49	25700	1.35	TF 87	YDA100L4
						TFF 87	YDA100L4
	14	2000	97.89	26400	1.50	TFA 87	YDA100L4
	16	1800	88.01	26900	1.65	TFAF 87	YDA100L4
	18	1560	76.39	26300	1.90	TF 87	YDA100L4
	20	1400	68.40	25700	2.1	TFF 87	YDA100L4
	25	1160	56.75	24800	2.6		
	28	1030	50.36	24100	2.9		
	16	1750	85.52	13800	0.85	TFA 77	YDA100L4
	19	1540	75.02	15500	1.00	TFAF 77	YDA100L4
	21	1360	66.46	16600	1.10	TF 77	YDA100L4
					TFF 77	YDA100L4	
24	1190	58.32	17500	1.25	TFA 77	YDA100L4	
25	1130	55.27	17800	1.35	TFAF 77	YDA100L4	
29	990	48.37	18300	1.50	TF 77	YDA100L4	
32	890	43.58	18700	1.70	TFF 77	YDA100L4	
37	780	38.23	19000	1.90			
38	750	36.58	19100	1.50	TFA 77	YDA100L4	
44	645	31.51	19400	2.1	TFAF 77	YDA100L4	
49	590	28.75	19500	2.4	TF 77	YDA100L4	
55	520	25.50*	19700	2.9	TFF 77	YDA100L4	
65	440	21.43	19800	3.4			
32	880	43.20	9690	0.95	TFA 67	YDA100L4	
36	800	39.26	10500	0.95	TFAF 67	YDA100L4	
41	695	34.01	11300	1.05	TF 67	YDA100L4	
					TFF 67	YDA100L4	

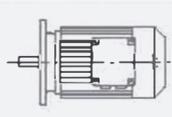
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
3.0	44	655	32.08	11600	1.25	TFA 67	YDA 100L4
	51	560	27.41	12100	1.45	TFAF 67	YDA 100L4
	56	515	25.13	12300	1.60	TF 67	YDA 100L4
	63	450	22.05	12600	1.80	TFF 67	YDA 100L4
	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		
	56	510	24.96	7440	1.15	TFA 57	YDA 100L4
	66	435	21.17	7340	1.40	TFAF 57	YDA 100L4
	73	390	19.11	7260	1.55	TF 57	YDA 100L4
	83	345	16.81	7140	1.75	TFF 57	YDA 100L4
	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 47	YDA 100L4
	81	355	17.33	4760	1.15	TFAF 47	YDA 100L4
	86	335	16.36	4760	1.20	TF 47	YDA 100L4
	100	285	13.93	4740	1.40	TFF 47	YDA 100L4
	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 37	YDA 100L4
	134	215	10.42	2350	0.85	TFAF 37	YDA 100L4
	156	184	8.97	2390	0.95	TF 37	YDA 100L4
	175	164	8.01	2410	1.05	TFF 37	YDA 100L4
	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 157 / TRF97	YDA 112M4
	1.9	18800	764	97800	0.95	TFAF 157 / TRF97	YDA 112M4
	2.1	16700	680	103900	1.10	TF 157 / TRF97	YDA 112M4
	2.5	14100	576	110100	1.30	TFF 157 / TRF97	YDA 112M4
	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 127 / TRF77	YDA 112M4
	2.9	12400	495	89700	0.95	TFAF 127 / TRF77	YDA 112M4
	3.3	10700	428	90000	1.10	TF 127 / TRF77	YDA 112M4
	3.8	9410	376	90000	1.30	TFF 127 / TRF77	YDA 112M4
	4.3	8350	333	48000	0.90	TFA 107 / TRF77	YDA 112M4
	4.9	7300	291	50800	1.05	TFAF 107 / TRF77	YDA 112M4
	5.6	6400	255	53100	1.20	TF 107 / TRF77	YDA 112M4
						TFF 107 / TRF77	YDA 112M4
	4.2	9060	170.83	90000	1.30	TFA 127	YDA 132ML8
	4.7	8150	153.67*	90000	1.45	TFAF 127	YDA 132ML8
	5.7	6650	125.37	90000	1.80	TF 127	YDA 132ML8
						TFF 127	YDA 132ML8
	5.6	6840	254.40*	52000	1.10	TFA 107	YDA 112M4
	6.6	5790	215.37	54500	1.35	TFAF 107	YDA 112M4
	7.1	5360	199.31	55500	1.45	TF 107	YDA 112M4
	8.0	4810	178.64	56700	1.60	TFF 107	YDA 112M4
	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		

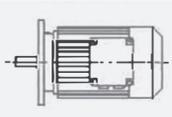
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	fs		
4.0	8.1	4700	174.87	26600	0.90	TFA 97	YDA112M4
	9.1	4200	156.30	30200	1.00	TFAF 97	YDA112M4
	10	3780	140.71	31400	1.15	TF 97	YDA112M4
	11	3430	127.42	32300	1.25	TFF 97	YDA112M4
	13	3040	112.99	33200	1.40	TFA 97	YDA112M4
	14	2750	102.16	33900	1.55	TFAF 97	YDA112M4
	15	2620	97.58	34100	1.65	TF 97	YDA112M4
	16	2420	89.85	34600	1.80	TFF 97	YDA112M4
	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 87	YDA112M4
	15	2630	97.89	24300	1.15	TFAF 87	YDA112M4
	16	2370	88.01	24600	1.25	TF 87	YDA112M4
						TFF 87	YDA112M4
	19	2050	76.39	24200	1.45	TFA 87	YDA112M4
	21	1840	68.40	23900	1.65	TFAF 87	YDA112M4
	25	1530	56.75	23200	1.95	TF 87	YDA112M4
	28	1350	50.36	22800	2.2	TFF 87	YDA112M4
	31	1220	45.28	22300	2.3		
	21	1790	66.46	13400	0.85	TFA 77	YDA112M4
	24	1570	58.32	15200	0.95	TFAF 77	YDA112M4
	26	1490	55.27	15800	1.00	TF 77	YDA112M4
	29	1300	48.37	16900	1.15	TFF 77	YDA112M4
	33	1170	43.58	17600	1.30	TFA 77	YDA112M4
	37	1030	38.23	18200	1.45	TFAF 77	YDA112M4
	42	910	33.74	18600	1.65	TF 77	YDA112M4
	47	800	29.91	19000	1.85	TFF 77	YDA112M4
	56	685	25.54	19300	2.1		
	45	850	31.51	18800	1.65	TFA 77	YDA112M4
	49	775	28.75	19100	1.85	TFAF 77	YDA112M4
	56	685	25.50*	19300	2.2	TF 77	YDA112M4
	66	575	21.43	19500	2.6	TFF 77	YDA112M4
	72	530	19.70	19600	2.8		
	52	735	27.41	11000	1.10	TFA 67	YDA112M4
	57	675	25.13	11400	1.20	TFAF 67	YDA112M4
	64	595	22.05	11900	1.40	TF 67	YDA112M4
	68	560	20.90*	12100	1.45	TFF 67	YDA112M4
	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 57	YDA112M4	
74	515	19.11	6490	1.15	TFAF 57	YDA112M4	
84	450	16.81	6450	1.35	TF 57	YDA112M4	
89	425	15.88	6430	1.40	TFF 57	YDA112M4	
105	365	13.52	6340	1.65	TFA 57	YDA112M4	
116	330	12.29	6270	1.80	TFAF 57	YDA112M4	
133	285	10.64	6150	2.1	TF 57	YDA112M4	
153	250	9.31	5850	1.70	TFF 57	YDA112M4	
173	220	8.19	5730	1.90			

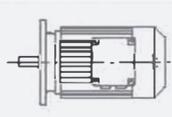
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
4.0	184	210	7.73	5680	2.0	TFA 57	YDA112M4
	216	177	6.58	5510	2.4	TFAF 57	YDA112M4
	237	161	5.98	5410	2.6	TF 57	YDA112M4
	274	139	5.18	5250	3.0	TFF 57	YDA112M4
5.5	2.5	19400	576	95800	0.95	TFA 157 / TRF97	YDA132S4
	2.8	16900	503	103400	1.05	TFAF 157 / TRF97	YDA132S4
	3.2	15100	446	107800	1.20	TF 157 / TRF97	YDA132S4
	4.1	11800	353	114400	1.50	TFF 157 / TRF97	YDA132S4
	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 127 / TRF87	YDA132S4
	3.8	12700	374	89000	0.95	TFAF 127 / TRF87	YDA132S4
	4.6	10600	312	90000	1.15	TF 127 / TRF87	YDA132S4
	4.9	9950	293	90000	1.20	TFF 127 / TRF87	YDA132S4
	5.5	8780	259	90000	1.35		
	6.4	7580	223	90000	1.60		
	3.3	14700	428	85200	0.80	TFA 127 / TRF77	YDA132S4
	3.8	12900	376	88700	0.95	TFAF 127 / TRF77	YDA132S4
						TF 127 / TRF77	YDA132S4
						TFF 127 / TRF77	YDA132S4
	2.6	19800	267.43	94600	0.90	TFA 157	YDA160M8
	3.3	16100	217.62*	105500	1.10	TFAF 157	YDA160M8
	4.0	13200	178.20*	111900	1.35	TF 157	YDA160M8
	4.4	12100	162.96	114000	1.50	TFF 157	YDA160M8
	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 127	YDA160M8
	4.6	11400	153.67*	90000	1.05	TFAF 127	YDA160M8
	5.7	9270	125.37	90000	1.30	TF 127	YDA160M8
	6.2	8460	114.34	90000	1.40	TFF 127	YDA160M8
	6.6	7910	215.37	49200	0.95	TFA 107	YDA132S4
	7.2	7320	199.31	50800	1.05	TFAF 107	YDA132S4
	8.0	6560	178.64	52700	1.15	TF 107	YDA132S4
	8.9	5920	161.28*	54200	1.30	TFF 107	YDA132S4
	9.8	5380	146.49	55500	1.45	TFA 107	YDA132S4
	11	4770	129.97	56800	1.60	TFAF 107	YDA132S4
	12	4330	117.94	57700	1.75	TF 107	YDA132S4
	14	3720	101.38*	59000	2.1	TFF 107	YDA132S4
15	3400	92.47*	59600	2.3			
16	3250	88.49	59900	2.4			
17	3080	83.99	60200	2.5			
11	4680	127.42	27400	0.90	TFA 97	YDA132S4	
13	4150	112.99	30300	1.05	TFAF 97	YDA132S4	
14	3750	102.16	31400	1.15	TF 97	YDA132S4	
					TFF 97	YDA132S4	
15	3580	97.58	31900	1.20	TFA 97	YDA132S4	
16	3300	89.85	32600	1.30	TFAF 97	YDA132S4	
17	3180	86.59	32900	1.35	TF 97	YDA132S4	
18	2950	80.31	33400	1.45	TFF 97	YDA132S4	
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			

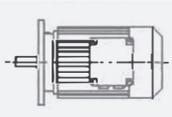
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
5.5	16	3230	88.01	5760	0.95	TFA 87	YDA 132S4
	19	2810	76.39	21200	1.05	TFAF 87	YDA 132S4
	21	2510	68.40	21200	1.20	TF 87	YDA 132S4
	25	2080	56.75	21000	1.45	TFF 87	YDA 132S4
	28	1850	50.36	20800	1.60	TFA 87	YDA 132S4
	32	1660	45.28	20500	1.70	TFAF 87	YDA 132S4
	36	1440	39.30	20100	1.90	TF 87	YDA 132S4
	41	1290	35.19	19800	2.0	TFF 87	YDA 132S4
	49	1070	29.20	19100	2.3		
	42	1250	33.92	19700	2.1	TFA 87	YDA 132S4
	50	1060	28.78	19100	2.3	TFAF 87	YDA 132S4
	54	970	26.50	18800	3.1	TF 87	YDA 132S4
	60	870	23.68	18400	3.5	TFF 87	YDA 132S4
	30	1780	48.37	13500	0.85	TFA 77	YDA 132S4
	33	1600	43.58	15000	0.95	TFAF 77	YDA 132S4
	37	1400	38.23	16300	1.05	TF 77	YDA 132S4
	42	1240	33.74	17300	1.20	TFF 77	YDA 132S4
	48	1100	29.91	17900	1.35		
	56	940	25.54	18500	1.55		
	56	940	25.50*	18500	1.60	TFA 77	YDA 132S4
	67	785	21.43	19000	1.90	TFAF 77	YDA 132S4
	73	725	19.70	19200	2.1	TF 77	YDA 132S4
	82	645	17.49	19400	2.3	TFF 77	YDA 132S4
	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 67	YDA 132S4
	68	770	20.90*	10800	1.05	TFAF 67	YDA 132S4
	78	670	18.29	11500	1.20	TF 67	YDA 132S4
	87	605	16.48	11900	1.35	TFF 67	YDA 132S4
	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		
	85	620	16.81	5450	0.95	TFA 57	YDA 132S4
	90	585	15.88	5480	1.05	TFAF 57	YDA 132S4
106	495	13.52	5530	1.20	TF 57	YDA 132S4	
116	450	12.29	5530	1.35	TFF 57	YDA 132S4	
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 127 / TRF87	YDA 132M4
	4.9	13600	293	87300	0.90	TFAF 127 / TRF87	YDA 132M4
	5.5	12000	259	90000	1.00	TF 127 / TRF87	YDA 132M4
	6.4	10400	223	90000	1.15	TFF 127 / TRF87	YDA 132M4
	7.2	9190	198	90000	1.30		
	3.3	21600	217.62*	87600	0.85	TFA 157	YDA 160L8
	4.0	17700	178.20*	101100	1.00	TFAF 157	YDA 160L8
	4.4	16200	162.96	105200	1.10	TF 157	YDA 160L8
	5.1	14100	141.80*	110100	1.30	TFF 157	YDA 160L8
	5.8	12400	125.14	113300	1.45		
	6.6	10800	108.49	116100	1.65		

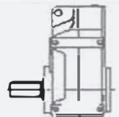
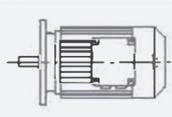
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
7.5	7.5	9600	96.53*	117800	1.85	TFA 157	YDA 160L8
	8.4	8530	85.80*	119200	2.1	TFAF 157	YDA 160L8
	9.2	7810	78.46	120000	2.3	TF 157	YDA 160L8
	11	6790	68.28*	120000	2.7	TFF 157	YDA 160L8
	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 157	YDA 160M6
	4.4	16200	217.62*	105100	1.10	TFAF 157	YDA 160M6
	5.4	13300	178.20*	111700	1.35	TF 157	YDA 160M6
	5.9	12200	162.96	113800	1.50	TFF 157	YDA 160M6
	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 127	YDA 160L8
	6.3	11400	114.34	90000	1.05	TFAF 127	YDA 160L8
	7.3	9840	98.95	90000	1.20	TF 127	YDA 160L8
	8.2	8690	87.31*	90000	1.40	TFF 127	YDA 160L8
	5.6	12700	170.83	89000	0.95	TFA 127	YDA 160M6
	6.2	11500	153.67*	90000	1.05	TFAF 127	YDA 160M6
	7.7	9350	125.37	90000	1.30	TF 127	YDA 160M6
	8.4	8530	114.34	90000	1.40	TFF 127	YDA 160M6
	8.4	8560	170.83	90000	1.40	TFA 127	YDA 132M4
	9.3	7700	153.67*	90000	1.55	TFAF 127	YDA 132M4
	11	6280	125.37	90000	1.90	TF 127	YDA 132M4
						TFF 127	YDA 132M4
	8.0	8950	178.64	46300	0.85	TFA 107	YDA 132M4
	8.9	8080	161.28*	48700	0.95	TFAF 107	YDA 132M4
	9.8	7340	146.49	50700	1.05	TF 107	YDA 132M4
	11	6510	129.97	52800	1.20	TFF 107	YDA 132M4
	12	5910	117.94	54200	1.30	TFA 107	YDA 132M4
	14	5080	101.38*	56100	1.50	TFAF 107	YDA 132M4
	15	4630	92.47*	57100	1.65	TF 107	YDA 132M4
	16	4430	88.49	57500	1.75	TFF 107	YDA 132M4
	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 97	YDA 132M4
	16	4500	89.85	29300	0.95	TFAF 97	YDA 132M4
	17	4340	86.59	29800	1.00	TF 97	YDA 132M4
18	4020	80.31	30700	1.05	TFF 97	YDA 132M4	
19	3790	75.63	31300	1.15			
20	3620	72.29	31800	1.20			
22	3280	65.47	32200	1.30	TFA 97	YDA 132M4	
25	2910	58.06	31800	1.50	TFAF 97	YDA 132M4	
27	2630	52.49	31400	1.65	TF 97	YDA 132M4	
32	2230	44.49	30600	1.95	TFF 97	YDA 132M4	
37	1950	38.86	29900	2.2			
44	1630	32.50	28900	2.6			
33	2170	43.28	30500	1.40	TFA 97	YDA 132M4	
39	1840	36.64	29600	1.65	TFAF 97	YDA 132M4	
42	1700	33.91	29200	2.5	TF 97	YDA 132M4	
47	1520	30.39	28500	2.8	TFF 97	YDA 132M4	

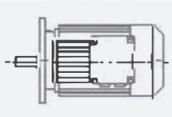
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
7.5	25	2840	56.75	18100	1.05	TFA 87	YDA132M4	
	28	2520	50.36	18200	1.15	TFAF 87	YDA132M4	
	32	2270	45.28	18200	1.25	TF 87	YDA132M4	
	36	1970	39.30	18100	1.40	TFF 87	YDA132M4	
	41	1760	35.19	18000	1.50			
	49	1460	29.20	17600	1.70			
	50	1440	28.78	17600	1.70	TFA 87	YDA132M4	
	54	1330	26.50	17400	2.3	TFAF 87	YDA132M4	
	60	1190	23.68	17100	2.5	TF 87	YDA132M4	
	67	1070	21.32*	16800	2.8	TFF 87	YDA132M4	
	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 77	YDA132M4	
	48	1500	29.91	15700	1.00	TFAF 77	YDA132M4	
	56	1280	25.54	17000	1.15	TF 77	YDA132M4	
						TFF 77	YDA132M4	
	9.2	56	1280	25.50*	17100	1.15	TFA 77	YDA132M4
		67	1070	21.43	18000	1.40	TFAF 77	YDA132M4
		73	990	19.70	18400	1.50	TF 77	YDA132M4
82		880	17.49	18800	1.70	TFF 77	YDA132M4	
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	7.93	15700	2.9			
215		335	6.64	15300	3.3	TFA 77	YDA132M4	
248		290	5.76	14800	3.7	TFAF 77	YDA132M4	
277		260	5.16	14500	4.2	TF 77	YDA132M4	
334		215	4.28	13800	4.7	TFF 77	YDA132M4	
4.1		19900	353	94200	0.90	TFA 157 / TRF97	YDA132ML4	
4.8		17200	302	102700	1.05	TFAF 157 / TRF97	YDA132ML4	
5.3		15500	273	107000	1.15	TF 157 / TRF97	YDA132ML4	
6.2		13100	232	112100	1.35	TFF 157 / TRF97	YDA132ML4	
7.1		11400	202	115100	1.60			
7.3	11100	197	115600	1.60				
5.6	14700	259	85200	0.80	TFA 127 / TRF87	YDA132ML4		
6.5	12700	223	89100	0.95	TFAF 127 / TRF87	YDA132ML4		
7.3	11200	198	90000	1.05	TF 127 / TRF87	YDA132ML4		
					TFF 127 / TRF87	YDA132ML4		
8.4	10400	170.83	90000	1.15	TFA 127	YDA132ML4		
9.4	9380	153.67*	90000	1.30	TFAF 127	YDA132ML4		
11	7650	125.37	90000	1.55	TF 127	YDA132ML4		
13	6980	114.34	90000	1.70	TFF 127	YDA132ML4		
15	6040	98.95	90000	2.0				
9.8	8940	146.49	46300	0.85	TFA 107	YDA132ML4		
11	7930	129.97	49100	0.95	TFAF 107	YDA132ML4		
12	7200	117.94	51100	1.05	TF 107	YDA132ML4		
14	6180	101.38*	53600	1.25	TFF 107	YDA132ML4		
16	5640	92.47*	54900	1.35	TFA 107	YDA132ML4		
17	5120	83.99	56000	1.50	TFAF 107	YDA132ML4		
19	4550	74.52	57300	1.70	TF 107	YDA132ML4		
21	4130	67.62	58200	1.85	TFF 107	YDA132ML4		
25	3550	58.12*	58300	2.2				
28	3100	50.73	56800	2.5				
18	4900	80.31	18700	0.90	TFA 97	YDA132ML4		
19	4610	75.63	28900	0.95	TFAF 97	YDA132ML4		
20	4410	72.29	29600	0.95	TF 97	YDA132ML4		
22	3990	65.47	29600	1.10	TFF 97	YDA132ML4		
25	3540	58.06	29500	1.20				

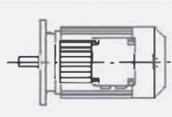
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
9.2	27	3200	52.49	29300	1.35	TFA 97	YDA 132ML4
	32	2710	44.49	28800	1.60	TFAF 97	YDA 132ML4
	37	2370	38.86	28400	1.80	TF 97	YDA 132ML4
	44	1980	32.50	27600	2.2	TFF 97	YDA 132ML4
	42	2070	33.91	27800	2.1	TFA 97	YDA 132ML4
	47	1850	30.39	27300	2.3	TFAF 97	YDA 132ML4
	52	1670	27.44*	26800	2.6	TF 97	YDA 132ML4
	58	1520	24.92	26300	2.8	TFF 97	YDA 132ML4
	29	3070	50.36	16000	0.95	TFA 87	YDA 132ML4
	32	2760	45.28	16200	1.00	TFAF 87	YDA 132ML4
	37	2400	39.30	16400	1.15	TF 87	YDA 132ML4
	41	2150	35.19	16400	1.20	TFF 87	YDA 132ML4
	49	1780	29.20	16300	1.40		
	54	1620	26.50	16200	1.85	TFA 87	YDA 132ML4
	61	1440	23.68	16100	2.1	TFAF 87	YDA 132ML4
	68	1300	21.32*	15900	2.3	TF 87	YDA 132ML4
	75	1180	19.31	15700	2.6	TFF 87	YDA 132ML4
	84	1040	17.12	15400	2.9		
	93	940	15.48	15200	3.2		
	110	800	13.12*	14700	3.8		
11.0	73	1200	19.70	17400	1.25	TFA 77	YDA 132ML4
	82	1070	17.49	18000	1.40	TFAF 77	YDA 132ML4
	92	950	15.64*	18300	1.55	TF 77	YDA 132ML4
	102	860	14.06	18000	1.75	TFF 77	YDA 132ML4
	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		
	4.8	20600	302	91800	0.90	TFA 157 / TRF97	YDT 160M4
	5.3	18600	273	98600	0.95	TFAF 157 / TRF97	YDT 160M4
	6.2	15700	232	106400	1.15	TF 157 / TRF97	YDT 160M4
	7.1	13700	202	110900	1.30	TFF 157 / TRF97	YDT 160M4
	7.3	13300	197	111700	1.35		
	6.5	15200	223	84100	0.80	TFA 127 / TRF87	YDT 160M4
	7.3	13400	198	87700	0.90	TFAF 127 / TRF87	YDT 160M4
	8.7	11300	166	90000	1.05	TF 127 / TRF87	YDT 160M4
						TFF 127 / TRF87	YDT 160M4
	5.1	20700	141.80*	91300	0.85	TFA 157	YDT 180L8
	5.8	18300	125.14	99500	1.00	TFAF 157	YDT 180L8
	6.6	15800	108.49	106100	1.15	TF 157	YDT 180L8
	7.5	14100	96.53*	110100	1.30	TFF 157	YDT 180L8
	5.4	19500	178.20*	95500	0.90	TFA 157	YDT 160L6
	5.9	17800	162.96	100800	1.00	TFAF 157	YDT 160L6
	6.8	15500	141.80*	106900	1.15	TF 157	YDT 160L6
	7.7	13700	125.14	110900	1.30	TFF 157	YDT 160L6
	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 157	YDT 160M4
	6.6	15900	217.62*	106000	1.15	TFAF 157	YDT 160M4
	8.1	13000	178.20*	112300	1.40	TF 157	YDT 160M4
	8.8	11900	162.96	114300	1.50	TFF 157	YDT 160M4
	10	10300	141.80*	116800	1.75		
	12	9130	125.14	118400	1.95		
13	7910	108.49	119900	2.3			

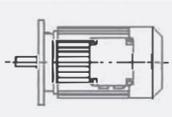
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
11.0	15	7040	96.53*	120000	2.6	TFA 157	YDT 160M4	
	17	6260	85.80*	118100	2.9	TFAF 157	YDT 160M4	
	18	5720	78.46	115700	3.1	TF 157	YDT 160M4	
	21	4980	68.28*	112000	3.6	TFF 157	YDT 160M4	
	7.7	13700	125.37	87100	0.85	TFA 127	YDT 160L6	
	8.4	12500	114.34	89500	0.95	TFAF 127	YDT 160L6	
	9.7	10800	98.95	90000	1.10	TF 127	YDT 160L6	
	11	9550	87.31*	90000	1.25	TFF 127	YDT 160L6	
	13	8250	75.41*	90000	1.45			
	8.4	12500	170.83	89500	0.95	TFA 127	YDT 160M4	
	9.4	11200	153.67*	90000	1.05	TFAF 127	YDT 160M4	
	11	9150	125.37	90000	1.30	TF 127	YDT 160M4	
	13	8340	114.34	90000	1.45	TFF 127	YDT 160M4	
	15	7220	98.95	90000	1.65			
	16	6370	87.31*	90000	1.9			
	19	5500	75.41*	88600	2.2			
	12	8600	117.94	47300	0.90	TFA 107	YDT 160M4	
	14	7400	101.38*	50600	1.05	TFAF 107	YDT 160M4	
	16	6750	92.47*	52200	1.15	TF 107	YDT 160M4	
							TFF 107	YDT 160M4
	17	6130	83.99	53700	1.25	TFA 107	YDT 160M4	
	19	5440	74.52	55300	1.40	TFAF 107	YDT 160M4	
	21	4930	67.62	56500	1.55	TF 107	YDT 160M4	
	25	4240	58.12*	56400	1.80	TFF 107	YDT 160M4	
	28	3700	50.73	55100	2.1			
	33	3140	43.03	53500	2.5			
	43	2470	33.79*	51000	3.0	TFA 107	YDT 160M4	
	52	2010	27.57	48800	3.9	TFAF 107	YDT 160M4	
	57	1830	25.14	47800	4.3	TF 107	YDT 160M4	
							TFF 107	YDT 160M4
	22	4780	65.47	24000	0.90	TFA 97	YDT 160M4	
	25	4240	58.06	27100	1.00	TFAF 97	YDT 160M4	
	27	3830	52.49	27100	1.10	TF 97	YDT 160M4	
							TFF 97	YDT 160M4
	32	3250	44.49	27000	1.30	TFA 97	YDT 160M4	
	37	2830	38.86	26700	1.50	TFAF 97	YDT 160M4	
	44	2370	32.50	26200	1.80	TF 97	YDT 160M4	
							TFF 97	YDT 160M4
	42	2470	33.91	26400	1.75	TFA 97	YDT 160M4	
	47	2220	30.39	26000	1.95	TFAF 97	YDT 160M4	
	52	2000	27.44*	25600	2.2	TF 97	YDT 160M4	
	58	1820	24.92	25200	2.4	TFF 97	YDT 160M4	
	65	1610	22.11	24700	2.7			
	37	2870	39.30	14600	0.95	TFA 87	YDT 160M4	
41	2570	35.19	14800	1.00	TFAF 87	YDT 160M4		
49	2130	29.20	15000	1.20	TF 87	YDT 160M4		
						TFF 87	YDT 160M4	
54	1930	26.50	15000	1.55	TFA 87	YDT 160M4		
61	1730	23.68	15000	1.75	TFAF 87	YDT 160M4		
68	1560	21.32*	14900	1.95	TF 87	YDT 160M4		
75	1410	19.31	14800	2.1	TFF 87	YDT 160M4		
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 77	YDT 160M4		
82	1280	17.49	17100	1.20	TFAF 77	YDT 160M4		
92	1140	15.64*	17600	1.30	TF 77	YDT 160M4		
102	1030	14.06	17400	1.45	TFF 77	YDT 160M4		
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				

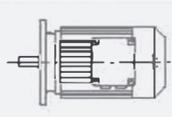
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs				
						TFA	TF	TFA	TF
11.0	217	485	6.64	14600	2.2	TFA	77	YDT 160M4	
	250	420	5.76	14200	2.6	TFAF	77	YDT 160M4	
	279	375	5.16	13900	2.9	TF	77	YDT 160M4	
	336	310	4.28	13300	3.2	TFF	77	YDT 160M4	
15.0	6.3	21200	232	89400	0.85	TFA	157 / TRF97	YDT 160L4	
	7.2	18500	202	98800	0.95	TFAF	157 / TRF97	YDT 160L4	
	7.4	18000	197	100400	1.00	TF	157 / TRF97	YDT 160L4	
						TFF	157 / TRF97	YDT 160L4	
	6.8	20900	141.80*	90400	0.85	TFA	157	YDT 180L6	
	7.8	18500	125.14	98800	0.95	TFAF	157	YDT 180L6	
	8.9	16000	108.49	105700	1.10	TF	157	YDT 180L6	
	10	14300	96.53*	109800	1.25	TFF	157	YDT 180L6	
	11	12700	85.80*	112900	1.40				
	6.7	21400	217.62*	88800	0.85	TFA	157	YDT 160L4	
	8.2	17500	178.20*	101800	1.05	TFAF	157	YDT 160L4	
	9.0	16000	162.96	105700	1.15	TF	157	YDT 160L4	
	10	13900	141.80*	110500	1.30	TFF	157	YDT 160L4	
	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	127	YDT 180L6	
	11	12900	87.31*	88700	0.95	TFAF	127	YDT 180L6	
	13	11100	75.41*	88300	1.10	TF	127	YDT 180L6	
	14	10300	70.07	87600	1.15	TFF	127	YDT 180L6	
	15	9440	63.91	86700	1.25				
	12	12300	125.37	89000	1.00	TFA	127	YDT 160L4	
	13	11200	114.34	88300	1.05	TFAF	127	YDT 160L4	
	15	9710	98.95	87000	1.25	TF	127	YDT 160L4	
	17	8570	87.31*	85600	1.40	TFF	127	YDT 160L4	
	19	7400	75.41*	83800	1.60				
	21	6870	70.07	82800	1.75				
	16	9070	92.47*	45900	0.85	TFA	107	YDT 160L4	
	17	8680	88.49	47100	0.90	TFAF	107	YDT 160L4	
	17	8240	83.99	48300	0.95	TF	107	YDT 160L4	
	20	7310	74.52	50800	1.05	TFF	107	YDT 160L4	
	22	6630	67.62	52500	1.15				
	25	5700	58.12*	52200	1.35	TFA	107	YDT 160L4	
	29	4980	50.73	51500	1.55	TFAF	107	YDT 160L4	
	34	4220	43.03	50400	1.80	TF	107	YDT 160L4	
	39	3690	37.61	49300	2.1	TFF	107	YDT 160L4	
46	3120	31.80	48000	2.5					
43	3320	33.79*	48500	2.2	TFA	107	YDT 160L4		
53	2700	27.57	46700	2.9	TFAF	107	YDT 160L4		
58	2470	25.14	45900	3.2	TF	107	YDT 160L4		
67	2130	21.76*	44500	3.7	TFF	107	YDT 160L4		
33	4360	44.49	22900	1.00	TFA	97	YDT 160L4		
38	3810	38.86	23100	1.15	TFAF	97	YDT 160L4		
45	3190	32.50	23200	1.35	TF	97	YDT 160L4		
					TFF	97	YDT 160L4		
43	3330	33.91	23200	1.30	TFA	97	YDT 160L4		
48	2980	30.39	23200	1.45	TFAF	97	YDT 160L4		
53	2690	27.44*	23100	1.60	TF	97	YDT 160L4		
59	2450	24.92	22900	1.75	TFF	97	YDT 160L4		
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					

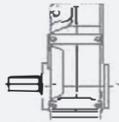
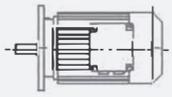
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
15.0	55	2600	26.50	12300	1.15	TFA 87	YDT 160L4
	62	2320	23.68	12600	1.30	TFAF 87	YDT 160L4
	68	2090	21.32*	12700	1.45	TF 87	YDT 160L4
	76	1890	19.31	12800	1.60	TFF 87	YDT 160L4
	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 157 / TRF97	YDT 180M4
	7.5	22100	197	83800	0.80	TFAF 157 / TRF97	YDT 180M4
						TF 157 / TRF97	YDT 180M4
						TFF 157 / TRF97	YDT 180M4
	8.2	21500	178.20*	88200	0.85	TFA 157	YDT 180M4
	9.0	19700	162.96	95000	0.90	TFAF 157	YDT 180M4
	10	17100	141.80*	102800	1.05	TF 157	YDT 180M4
	12	15100	125.14	107900	1.20	TFF 157	YDT 180M4
	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 127	YDT 180M4
	15	11900	98.95	81700	1.00	TFAF 127	YDT 180M4
	17	10500	87.31*	80900	1.15	TF 127	YDT 180M4
	19	9090	75.41*	79700	1.30	TFF 127	YDT 180M4
	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 107	YDT 180M4
	22	8150	67.62	48500	0.95	TFAF 107	YDT 180M4
	25	7010	58.12*	48700	1.10	TF 107	YDT 180M4
	29	6120	50.73	48400	1.25	TFF 107	YDT 180M4
	34	5190	43.03	47700	1.50	TFA 107	YDT 180M4
	39	4540	37.61	47000	1.70	TFAF 107	YDT 180M4
	46	3830	31.80	46000	2.0	TF 107	YDT 180M4
						TFF 107	YDT 180M4
	43	4070	33.79*	46400	1.80	TFA 107	YDT 180M4
	53	3320	27.57	45000	2.4	TFAF 107	YDT 180M4
	58	3030	25.14	44300	2.6	TF 107	YDT 180M4
	67	2620	21.76*	43200	3.0	TFF 107	YDT 180M4
	38	4690	38.86	20000	0.90	TFA 97	YDT 180M4
45	3920	32.50	20600	1.10	TFAF 97	YDT 180M4	
					TF 97	YDT 180M4	
					TFF 97	YDT 180M4	
53	3310	27.44*	20900	1.30	TFA 97	YDT 180M4	
59	3010	24.92	20900	1.45	TFAF 97	YDT 180M4	
66	2670	22.11	20900	1.60	TF 97	YDT 180M4	
73	2420	20.07	20800	1.80	TFF 97	YDT 180M4	
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			

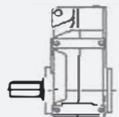
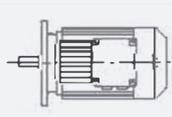
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
18.5	69	2570	21.32*	10900	1.15	TFA 87	YDT 180M4
	76	2330	19.31	11100	1.30	TFAF 87	YDT 180M4
	86	2060	17.12	11400	1.45	TF 87	YDT 180M4
	95	1870	15.48	11500	1.60	TFF 87	YDT 180M4
	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 157
11		18600	85.80*	98500	0.95	TFAF 157	YDT 200L6
12		17000	78.46	103100	1.05	TF 157	YDT 200L6
14		14800	68.28*	107700	1.20	TFF 157	YDT 200L6
10		20300	141.80*	92600	0.90	TFA 157	YDT 180L4
12		17900	125.14	100400	1.00	TFAF 157	YDT 180L4
14		15600	108.49	106800	1.15	TF 157	YDT 180L4
15		13800	96.53*	106900	1.30	TFF 157	YDT 180L4
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 127	YDT 180L4
17		12500	87.31*	76300	0.95	TFAF 127	YDT 180L4
19		10800	75.41*	75700	1.10	TF 127	YDT 180L4
21		10000	70.07	75300	1.20	TFF 127	YDT 180L4
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 107	YDT 180L4
29		7280	50.73	45300	1.05	TFAF 107	YDT 180L4
34		6170	43.03	45100	1.25	TF 107	YDT 180L4
						TFF 107	YDT 180L4
39		5390	37.61	44800	1.40	TFA 107	YDT 180L4
46		4560	31.80	44100	1.70	TFAF 107	YDT 180L4
						TF 107	YDT 180L4
						TFF 107	YDT 180L4
43		4850	33.79*	44300	1.55	TFA 107	YDT 180L4
53		3950	27.57	43300	2.0	TFAF 107	YDT 180L4
58		3610	25.14	42800	2.2	TF 107	YDT 180L4
67		3120	21.76*	41900	2.5	TFF 107	YDT 180L4
76		2750	19.20*	41000	2.9		
53		3940	27.44*	18700	1.10	TFA 97	YDT 180L4
59		3570	24.92	18900	1.20	TFAF 97	YDT 180L4
66		3170	22.11	19100	1.35	TF 97	YDT 180L4
73		2880	20.07	19200	1.50	TFF 97	YDT 180L4
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 87	YDT 180L4
76	2770	19.31	9430	1.10	TFAF 87	YDT 180L4	
86	2460	17.12	9850	1.20	TF 87	YDT 180L4	
95	2220	15.48	10100	1.35	TFF 87	YDT 180L4	
112	1880	13.12*	10400	1.60			

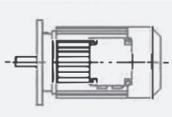
PERFORMANCE PARAMETER

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22.0	128	1640	11.46	10600	1.85	TFA 87	YDT 180L4
	153	1370	9.58	10600	2.1	TFAF 87	YDT 180L4
	177	1190	8.29	10100	1.30	TF 87	YDT 180L4
	199	1050	7.35	10100	1.45	TFF 87	YDT 180L4
	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 157	YDT 200L4
	15	18800	96.53*	96900	0.95	TFAF 157	YDT 200L4
	17	16700	85.80*	96400	1.10	TF 157	YDT 200L4
	19	15300	78.46	95800	1.20	TFF 157	YDT 200L4
	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 127	YDT 200L4
	21	13700	70.07	66800	0.90	TFAF 127	YDT 200L4
	23	12500	63.91	66900	0.95	TF 127	YDT 200L4
	27	10800	55.31	66700	1.10	TFF 127	YDT 200L4
	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 127	YDT 200L4
	60	4790	24.57	60900	1.80	TFAF 127	YDT 200L4
	69	4170	21.38	59400	2.9	TF 127	YDT 200L4
	78	3680	18.87	58000	3.0	TFF 127	YDT 200L4
	34	8390	43.03	39200	0.90	TFA 107	YDT 200L4
	39	7330	37.61	39600	1.05	TFAF 107	YDT 200L4
	46	6200	31.80	39700	1.25	TF 107	YDT 200L4
						TFF 107	YDT 200L4
	53	5370	27.57	39500	1.45	TFA 107	YDT 200L4
	58	4900	25.14	39300	1.60	TFAF 107	YDT 200L4
	68	4240	21.76*	38800	1.85	TF 107	YDT 200L4
	77	3740	19.20*	38300	2.1	TFF 107	YDT 200L4
	89	3230	16.58	37600	2.4	TFA 107	YDT 200L4
	100	2860	14.67	36900	2.7	TFAF 107	YDT 200L4
	119	2400	12.33	35900	2.9	TF 107	YDT 200L4
	148	1940	9.96	34500	3.4	TFF 107	YDT 200L4
	66	4310	22.11	15100	1.00	TFA 97	YDT 200L4
	73	3910	20.07	15500	1.10	TFAF 97	YDT 200L4
	85	3360	17.25*	16000	1.30	TF 97	YDT 200L4
	98	2930	15.06	16300	1.45	TFF 97	YDT 200L4
	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 157	YDT 22554
	19	18900	78.46	88700	0.95	TFAF 157	YDT 22554
	22	16400	68.28*	88400	1.10	TF 157	YDT 22554
	24	14500	60.25	87800	1.25	TFF 157	YDT 22554
	28	12600	52.24	86800	1.45		
	32	11200	46.48*	85700	1.60		
	37	9630	40.06	84000	1.85		
	45	7820	32.55	81400	2.3		
	53	6630	27.60	79100	2.7		

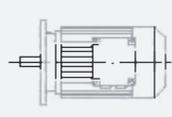
PERFORMANCE PARAMETER

P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs		
37	27	13300	55.31	60900	0.90	TFA 127	YDT 225S4
	30	11700	48.80	61100	1.00	TFAF 127	YDT 225S4
	35	10100	42.15	61100	1.20	TF 127	YDT 225S4
	39	8960	37.28	60700	1.35	TFF 127	YDT 225S4
	47	7530	31.33	59900	1.60		
	58	6080	25.30	58500	1.95		
	55	6460	26.86	58900	1.30	TFA 127	YDT 225S4
	60	5910	24.57	58300	1.45	TFAF 127	YDT 225S4
	69	5140	21.38	57100	2.3	TF 127	YDT 225S4
	78	4530	18.87	56000	2.4	TFF 127	YDT 225S4
	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 107	YDT 225S4
	58	6040	25.14	36200	1.30	TFAF 107	YDT 225S4
	68	5230	21.76*	36200	1.50	TF 107	YDT 225S4
	77	4610	19.20*	36000	1.70	TFF 107	YDT 225S4
	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 157	YDT 225M4
	24	17600	60.25	81600	1.00	TFAF 157	YDT 225M4
	28	15300	52.24	81300	1.20	TF 157	YDT 225M4
	32	13600	46.48*	80900	1.30	TFF 157	YDT 225M4
	37	11700	40.06	79900	1.55	TFA 157	YDT 225M4
	45	9510	32.55	78000	1.90	TFAF 157	YDT 225M4
	53	8070	27.60	76200	2.2	TF 157	YDT 225M4
						TFF 157	YDT 225M4
	30	14300	48.80	55200	0.85	TFA 127	YDT 225M4
	35	12300	42.15	56000	0.95	TFAF 127	YDT 225M4
	39	10900	37.28	56200	1.10	TF 127	YDT 225M4
	47	9160	31.33	56100	1.30	TFF 127	YDT 225M4
	58	7400	25.30	55400	1.60		
	55	7850	26.86	55700	1.10	TFA 127	YDT 225M4
	60	7180	24.57	55300	1.20	TFAF 127	YDT 225M4
	69	6250	21.38	54500	1.90	TF 127	YDT 225M4
	78	5520	18.87	53700	2.0	TFF 127	YDT 225M4
	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 107	YDT 225M4
	58	7350	25.14	32800	1.05	TFAF 107	YDT 225M4
	68	6360	21.76*	33200	1.25	TF 107	YDT 225M4
	77	5610	19.20*	33300	1.40	TFF 107	YDT 225M4
	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			

PERFORMANCE PARAMETER

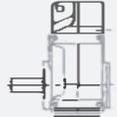
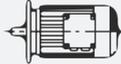
P1n [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	Fr ₂ [N]	fs			
45	152	2830	9.69	31000	1.75	TFA	107	YDT 225M4
	176	2450	8.37	30400	1.95	TFAF	107	YDT 225M4
	199	2160	7.40	29900	2.1	TF	107	YDT 225M4
	236	1820	6.22	29100	2.5	TFF	107	YDT 225M4
55	24	21500	60.25	73800	0.85	TFA	157	YDT 250M4
	28	18600	52.24	74600	0.95	TFAF	157	YDT 250M4
	32	16500	46.48*	74800	1.10	TF	157	YDT 250M4
	37	14300	40.06	74700	1.25	TFF	157	YDT 250M4
	45	11600	32.55	73800	1.55			
	53	9830	27.60	72600	1.85			
	52	10200	28.60*	72900	1.65	TFA	157	YDT 250M4
	58	9060	25.43	71900	1.65	TFAF	157	YDT 250M4
	67	7890	22.16	70600	2.3	TF	157	YDT 250M4
	75	7040	19.77	69400	2.4	TFF	157	YDT 250M4
	88	6000	16.85	67600	3.0			
	40	13300	37.28	50600	0.90	TFA	127	YDT 250M4
	47	11200	31.33	51400	1.10	TFAF	127	YDT 250M4
	58	9010	25.30	51600	1.35	TF	127	YDT 250M4
						TFF	127	YDT 250M4
	69	7610	21.38	51300	1.60	TFA	127	YDT 250M4
	78	6720	18.87	50800	1.65	TFAF	127	YDT 250M4
	90	5820	16.36	50100	1.90	TF	127	YDT 250M4
	101	5180	14.55	49400	2.1	TFF	127	YDT 250M4
	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				
217	2420	6.80	42900	2.9	TFA	127	YDT 250M4	
267	1970	5.52	41100	3.1	TFAF	127	YDT 250M4	
315	1670	4.68	39600	3.6	TF	127	YDT 250M4	
					TFF	127	YDT 250M4	
75	32	22500	46.48*	62900	0.80	TFA	157	YDT 280S4
	37	19400	40.06	64400	0.95	TFAF	157	YDT 280S4
	45	15800	32.55	65400	1.15	TF	157	YDT 280S4
	54	13400	27.60	65500	1.35	TFF	157	YDT 280S4
	52	13800	28.60*	65500	1.25	TFA	157	YDT 280S4
	58	12300	25.43	65400	1.20	TFAF	157	YDT 280S4
	67	10700	22.16	64900	1.70	TF	157	YDT 280S4
	75	9570	19.77	64300	1.80	TFF	157	YDT 280S4
	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	127	YDT 280S4
						TFAF	127	YDT 280S4
						TF	127	YDT 280S4
						TFF	127	YDT 280S4
	69	10300	21.38	44800	1.15	TFA	127	YDT 280S4
	78	9130	18.87	45100	1.20	TFAF	127	YDT 280S4
	90	7920	16.36	45200	1.40	TF	127	YDT 280S4
	102	7040	14.55	45000	1.55	TFF	127	YDT 280S4
	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	157	YDT 280M4
	54	16000	27.60	60200	1.10	TFAF	157	YDT 280M4
						TF	157	YDT 280M4
						TFF	157	YDT 280M4

PERFORMANCE PARAMETER

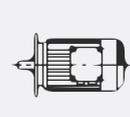
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90	67	12900	22.16	60600	1.40	TFA 157	YDT 280M4
	75	11500	19.77	60500	1.50	TFAF 157	YDT 280M4
	88	9790	16.85	59900	1.85	TF 157	YDT 280M4
	106	8110	13.96	58900	2.1	TFF 157	YDT 280M4
	124	6920	11.92	57800	2.3		
	58	14700	25.30	33100	0.80	TFA 127	YDT 280M4
						TFAF 127	YDT 280M4
						TF 127	YDT 280M4
						TFF 127	YDT 280M4
	90	9500	16.36	41500	1.15	TFA 127	YDT 280M4
	102	8450	14.55	41700	1.30	TFAF 127	YDT 280M4
	118	7280	12.54	41800	1.35	TF 127	YDT 280M4
	145	5920	10.19	41400	1.60	TFF 127	YDT 280M4
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 157	YDT 31554
						TFAF 157	YDT 31554
						TF 157	YDT 31554
						TFF 157	YDT 31554
	67	15700	22.16	54900	1.15	TFA 157	YDT 31554
	75	14000	19.77	55400	1.20	TFAF 157	YDT 31554
88	11900	16.85	55600	1.50	TF 157	YDT 31554	
106	9880	13.96	55300	1.70	TFF 157	YDT 31554	
125	8430	11.92	54700	1.90			
132	67	18800	22.16	48700	0.95	TFA 157	YDT 315M4
	75	16800	19.77	49800	1.00	TFAF 157	YDT 315M4
	88	14300	16.85	50900	1.25	TF 157	YDT 315M4
	106	11900	13.96	51400	1.45	TFF 157	YDT 315M4
	125	10100	11.92	51400	1.60		
160	88	17300	16.85	44800	1.05	TFA 157	YDT 315M4A
	106	14400	13.96	46400	1.20	TFAF 157	YDT 315M4A
	125	12300	11.92	47100	1.30	TF 157	YDT 315M4A
					TFF 157	YDT 315M4A	
200	88	21700	16.85	36100	0.85	TFA 157	YDT 315M4B
	106	18000	13.96	39200	0.95	TFAF 157	YDT 315M4B
	125	15300	11.92	41000	1.05	TF 157	YDT 315M4B
					TFF 157	YDT 315M4B	

PERFORMANCE PARAMETER

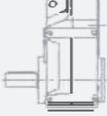
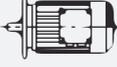
TF.. / TRF..YDA.. *Performance parameter*

M2max [Nm]	n2 [r/min]	i	F _{r2} [N]			
130	0.15	8972	4500	TFA	27 / TRF17	YDA 63S4
	0.18	7736	4500	TFAF	27 / TRF17	YDA 63S4
	0.19	7211	4500	TF	27 / TRF17	YDA 63S4
	0.22	6303	4500	TFF	27 / TRF17	YDA 63S4
	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	27 / TRF17	YDA 63S4
	0.84	1645	4500	TFAF	27 / TRF17	YDA 63S4
	0.90	1525	4500	TF	27 / TRF17	YDA 63S4
	1.0	1322	4500	TFF	27 / TRF17	YDA 63S4
	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	27 / TRF17	YDA 63S4
	3.5	397	4500	TFAF	27 / TRF17	YDA 63S4
	4.0	342	4500	TF	27 / TRF17	YDA 63S4
	4.6	302	4500	TFF	27 / TRF17	YDA 63S4
	5.2	266	4500			
	5.9	236	4500			
	6.5	211	4500			
	7.1	186	4500	TFA	27 / TRF17	YDA 63M4
	9.3	142	4500	TFAF	27 / TRF17	YDA 63M4
	11	124	4500	TF	27 / TRF17	YDA 63M4
			TFF	27 / TRF17	YDA 63M4	
12	109	4500	TFA	27 / TRF17	YDA 63L4	
14	96	4500	TFAF	27 / TRF17	YDA 63L4	
			TF	27 / TRF17	YDA 63L4	
			TFF	27 / TRF17	YDA 63L4	
200	0.17	8193	4290	TFA	37 / TRF17	YDA 63S4
	0.20	7064	4290	TFAF	37 / TRF17	YDA 63S4
	0.21	6585	4290	TF	37 / TRF17	YDA 63S4
	0.24	5756	4290	TFF	37 / TRF17	YDA 63S4
	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			
	0.72	1929	4290	TFA	37 / TRF17	YDA 63S4
	0.82	1679	4290	TFAF	37 / TRF17	YDA 63S4
	0.89	1550	4290	TF	37 / TRF17	YDA 63S4
	1.0	1356	4290	TFF	37 / TRF17	YDA 63S4
	1.2	1180	4290			

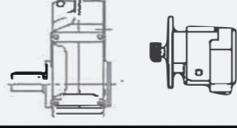
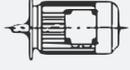
PERFORMANCE PARAMETER

M2max [Nm]	n2 [r/min]	i	F _{r2} [N]			
200	1.3	1044	4290	TFA	37 / TRF17	YDA 63S4
	1.5	914	4290	TFAF	37 / TRF17	YDA 63S4
	1.7	808	4290	TF	37 / TRF17	YDA 63S4
	2.0	698	4290	TFF	37 / TRF17	YDA 63S4
	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	37 / TRF17	YDA 63S4
				TFAF	37 / TRF17	YDA 63S4
				TF	37 / TRF17	YDA 63S4
				TFF	37 / TRF17	YDA 63S4
	4.6	285	4290	TFA	37 / TRF17	YDA 63M4
	5.3	250	4290	TFAF	37 / TRF17	YDA 63M4
	6.0	219	4290	TF	37 / TRF17	YDA 63M4
	7.1	186	4290	TFF	37 / TRF17	YDA 63M4
	7.8	167	4290	TFA	37 / TRF17	YDA 63L4
	8.9	145	4290	TFAF	37 / TRF17	YDA 63L4
	10	129	4290	TF	37 / TRF17	YDA 63L4
			TFF	37 / TRF17	YDA 63L4	
400	0.11	12251	5920	TFA	47 / TRF17	YDA 63S4
	0.13	10619	5920	TFAF	47 / TRF17	YDA 63S4
	0.14	9846	5920	TF	47 / TRF17	YDA 63S4
	0.16	8534	5920	TFF	47 / TRF17	YDA 63S4
	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	47 / TRF17	YDA 63S4
	0.58	2394	5920	TFAF	47 / TRF17	YDA 63S4
	0.64	2172	5920	TF	47 / TRF17	YDA 63S4
	0.68	2025	5920	TFF	47 / TRF17	YDA 63S4
	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	47 / TRF17	YDA 63M4
				TFAF	47 / TRF17	YDA 63M4
				TF	47 / TRF17	YDA 63M4
				TFF	47 / TRF17	YDA 63M4
	2.5	524	5920	TFA	47 / TRF17	YDA 63M4
	2.7	489	5920	TFAF	47 / TRF17	YDA 63M4
	3.1	427	5920	TF	47 / TRF17	YDA 63M4
3.5	381	5920	TFF	47 / TRF17	YDA 63M4	
3.9	334	5920	TFA	47 / TRF17	YDA 63L4	
4.4	295	5920	TFAF	47 / TRF17	YDA 63L4	
5.1	253	5920	TF	47 / TRF17	YDA 63L4	
			TFF	47 / TRF17	YDA 63L4	
6.4	217	5920	TFA	47 / TRF17	YDA 71D4	
7.3	190	5920	TFAF	47 / TRF17	YDA 71D4	
7.8	178	5920	TF	47 / TRF17	YDA 71D4	
			TFF	47 / TRF17	YDA 71D4	

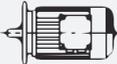
PERFORMANCE PARAMETER

M2max [Nm]	n2 [r/min]	i	Fr ₂ [N]			
400	9.1	149	5920	TFA	47 / TRF17	YDA 80K4
	10	131	5920	TFAF	47 / TRF17	YDA 80K4
				TF	47 / TRF17	YDA 80K4
				TFF	47 / TRF17	YDA 80K4
600	0.09	14832	9200	TFA	57 / TRF37	YDA 63S4
	0.10	13604	9200	TFAF	57 / TRF37	YDA 63S4
	0.11	12602	9200	TF	57 / TRF37	YDA 63S4
	0.12	11252	9200	TFF	57 / TRF37	YDA 63S4
	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	57 / TRF37	YDA 63S4
	0.54	2576	9200	TFAF	57 / TRF37	YDA 63S4
	0.61	2266	9200	TF	57 / TRF37	YDA 63S4
	0.69	2012	9200	TFF	57 / TRF37	YDA 63S4
	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	57 / TRF37	YDA 63M4
	1.8	749	9200	TFAF	57 / TRF37	YDA 63M4
	2.0	658	9200	TF	57 / TRF37	YDA 63M4
				TFF	57 / TRF37	YDA 63M4
	2.4	549	9200	TFA	57 / TRF37	YDA 63L4
	2.7	483	9200	TFAF	57 / TRF37	YDA 63L4
				TF	57 / TRF37	YDA 63L4
				TFF	57 / TRF37	YDA 63L4
	3.1	426	9200	TFA	57 / TRF37	YDA 63L4
	3.4	382	9200	TFAF	57 / TRF37	YDA 63L4
				TF	57 / TRF37	YDA 63L4
				TFF	57 / TRF37	YDA 63L4
	4.2	330	9200	TFA	57 / TRF37	YDA 71D4
	4.6	298	9200	TFAF	57 / TRF37	YDA 71D4
	5.3	262	9200	TF	57 / TRF37	YDA 71D4
				TFF	57 / TRF37	YDA 71D4
	6.0	226	9200	TFA	57 / TRF37	YDA 80K4
	6.8	200	9200	TFAF	57 / TRF37	YDA 80K4
			TF	57 / TRF37	YDA 80K4	
			TFF	57 / TRF37	YDA 80K4	
8.1	170	9200	TFA	57 / TRF37	YDA 80N4	
9.1	152	9200	TFAF	57 / TRF37	YDA 80N4	
10	134	9200	TF	57 / TRF37	YDA 80N4	
			TFF	57 / TRF37	YDA 80N4	
820	0.07	19199	10300	TFA	67 / TRF37	YDA 63S4
	0.08	17610	10300	TFAF	67 / TRF37	YDA 63S4
	0.09	14992	10300	TF	67 / TRF37	YDA 63S4
	0.11	12926	10300	TFF	67 / TRF37	YDA 63S4
	0.12	11480	10300			
	0.14	10220	10300			
	0.15	8933	10300			
	0.17	7940	10300			
	0.19	7096	10300			

PERFORMANCE PARAMETER

M ₂ max [Nm]	n ₂ [r/min]	i	Fr ₂ [N]			
820	0.23	6080	10300	TFA	67 / TRF37	YDA 63S4
	0.26	5341	10300	TFAF	67 / TRF37	YDA 63S4
	0.29	4690	10300	TF	67 / TRF37	YDA 63S4
	0.34	4091	10300	TFF	67 / TRF37	YDA 63S4
	0.39	3574	10300			
	0.44	3133	10300			
	0.50	2756	10300			
	0.57	2439	10300			
	0.41	3377	10300	TFA	67 / TRF37	YDA 63S4
	0.47	2912	10300	TFAF	67 / TRF37	YDA 63S4
	0.51	2714	10300	TF	67 / TRF37	YDA 63S4
	0.58	2372	10300	TFF	67 / TRF37	YDA 63S4
	0.65	2126	10300			
	0.85	1631	10300			
	0.96	1437	10300			
	1.1	1256	10300			
	1.2	1126	10300	TFA	67 / TRF37	YDA 63M4
	1.3	984	10300	TFAF	67 / TRF37	YDA 63M4
	1.5	864	10300	TF	67 / TRF37	YDA 63M4
				TFF	67 / TRF37	YDA 63M4
	1.8	722	10300	TFA	67 / TRF37	YDA 63L4
	2.0	634	10300	TFAF	67 / TRF37	YDA 63L4
	2.4	539	10300	TF	67 / TRF37	YDA 63L4
				TFF	67 / TRF37	YDA 63L4
	0.73	1884	10300	TFA	67 / TRF37	YDA 63S4
				TFAF	67 / TRF37	YDA 63S4
				TF	67 / TRF37	YDA 63S4
				TFF	67 / TRF37	YDA 63S4
	2.8	500	10300	TFA	67 / TRF37	YDA 71D4
	3.0	454	10300	TFAF	67 / TRF37	YDA 71D4
	3.5	392	10300	TF	67 / TRF37	YDA 71D4
				TFF	67 / TRF37	YDA 71D4
	4.1	333	10300	TFA	67 / TRF37	YDA 80K4
	4.6	297	10300	TFAF	67 / TRF37	YDA 80K4
	5.2	261	10300	TF	67 / TRF37	YDA 80K4
	5.7	238	10300	TFF	67 / TRF37	YDA 80K4
	6.9	200	10300	TFA	67 / TRF37	YDA 80N4
				TFAF	67 / TRF37	YDA 80N4
				TF	67 / TRF37	YDA 80N4
				TFF	67 / TRF37	YDA 80N4
1500	0.07	19180	15700	TFA	77 / TRF37	YDA 63S4
	0.08	17593	15700	TFAF	77 / TRF37	YDA 63S4
	0.09	16128	15700	TF	77 / TRF37	YDA 63S4
	0.09	14978	15700	TFF	77 / TRF37	YDA 63S4
	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	77 / TRF37	YDA 63M4
				TFAF	77 / TRF37	YDA 63M4
				TF	77 / TRF37	YDA 63M4
				TFF	77 / TRF37	YDA 63M4

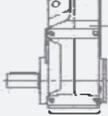
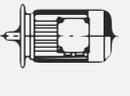
PERFORMANCE PARAMETER

M2max [Nm]	n2 [r/min]	i	Fr ₂ [N]			
1500	0.76	1728	15700	TFA	77 / TRF37	YDA 63M4
	0.86	1544	15700	TFAF	77 / TRF37	YDA 63M4
	0.98	1354	15700	TF	77 / TRF37	YDA 63M4
				TFF	77 / TRF37	YDA 63M4
	1.1	1200	15700	TFA	77 / TRF37	YDA 63L4
				TFAF	77 / TRF37	YDA 63L4
	1.2	1053	15700	TF	77 / TRF37	YDA 63L4
				TFF	77 / TRF37	YDA 63L4
	1.5	910	15700	TFA	77 / TRF37	YDA 71D4
				TFAF	77 / TRF37	YDA 71D4
	1.7	810	15700	TF	77 / TRF37	YDA 71D4
				TFF	77 / TRF37	YDA 71D4
	1.9	710	15700	TFA	77 / TRF37	YDA 71D4
				TFAF	77 / TRF37	YDA 71D4
	2.2	615	15700	TF	77 / TRF37	YDA 80K4
				TFF	77 / TRF37	YDA 80K4
	2.5	538	15700	TFA	77 / TRF37	YDA 80K4
				TFAF	77 / TRF37	YDA 80K4
	2.8	480	15700	TF	77 / TRF37	YDA 80K4
				TFF	77 / TRF37	YDA 80K4
	3.4	413	15700	TFA	77 / TRF37	YDA 80N4
				TFAF	77 / TRF37	YDA 80N4
	3.8	367	15700	TF	77 / TRF37	YDA 80N4
				TFF	77 / TRF37	YDA 80N4
4.3	323	15700	TFA	77 / TRF37	YDA 80N4	
			TFAF	77 / TRF37	YDA 80N4	
3000	0.06	23042	19800	TFA	87 / TRF57	YDA 63S4
	0.07	20462	19800	TFAF	87 / TRF57	YDA 63S4
	0.08	18238	19800	TF	87 / TRF57	YDA 63S4
	0.09	15877	19800	TFF	87 / TRF57	YDA 63S4
	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			
	0.31	4245	19800	TFA	87 / TRF57	YDA 63M4
				TFAF	87 / TRF57	YDA 63M4
				TF	87 / TRF57	YDA 63M4
				TFF	87 / TRF57	YDA 63M4
	0.35	3721	19800	TFA	87 / TRF57	YDA 63M4
				TFAF	87 / TRF57	YDA 63M4
				TF	87 / TRF57	YDA 63M4
				TFF	87 / TRF57	YDA 63M4
	0.41	3244	19800	TFA	87 / TRF57	YDA 63M4
				TFAF	87 / TRF57	YDA 63M4
	0.46	2881	19800	TF	87 / TRF57	YDA 63M4
				TFF	87 / TRF57	YDA 63M4
	0.50	2576	19800	TFA	87 / TRF57	YDA 63L4
				TFAF	87 / TRF57	YDA 63L4
	0.59	2199	19800	TF	87 / TRF57	YDA 63L4
				TFF	87 / TRF57	YDA 63L4
	0.67	1930	19800	TFA	87 / TRF57	YDA 63L4
				TFAF	87 / TRF57	YDA 63L4
	0.81	1709	19800	TF	87 / TRF57	YDA 71D4
				TFF	87 / TRF57	YDA 71D4
	0.92	1493	19800	TFA	87 / TRF57	YDA 71D4
				TFAF	87 / TRF57	YDA 71D4
	1.1	1300	19800	TF	87 / TRF57	YDA 71D4
				TFF	87 / TRF57	YDA 71D4
	1.2	1148	19800	TFA	87 / TRF57	YDA 80K4
				TFAF	87 / TRF57	YDA 80K4
	1.4	1010	19800	TF	87 / TRF57	YDA 80K4
				TFF	87 / TRF57	YDA 80K4
	1.5	887	19800	TFA	87 / TRF57	YDA 80K4
				TFAF	87 / TRF57	YDA 80K4
	1.8	780	19800	TF	87 / TRF57	YDA 80N4
				TFF	87 / TRF57	YDA 80N4
	2.0	674	19800	TFA	87 / TRF57	YDA 80N4
				TFAF	87 / TRF57	YDA 80N4
	2.3	609	19800	TF	87 / TRF57	YDA 80N4
TFF				87 / TRF57	YDA 80N4	
2.7	515	19800	TFA	87 / TRF57	YDA 90S4	
			TFAF	87 / TRF57	YDA 90S4	
3.1	452	19800	TF	87 / TRF57	YDA 90S4	
			TFF	87 / TRF57	YDA 90S4	

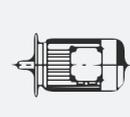
PERFORMANCE PARAMETER

M2max [Nm]	n2 [r/min]	i	Fr ₂ [N]			
3000	4.1	345	19800	TFA	87 / TRF57	YDA 90L4
				TFAF	87 / TRF57	YDA 90L4
				TF	87 / TRF57	YDA 90L4
				TFF	87 / TRF57	YDA 90L4
4300	0.07	20813	29900	TFA	97 / TRF57	YDA 63S4
	0.08	18119	29900	TFAF	97 / TRF57	YDA 63S4
	0.09	15472	29900	TF	97 / TRF57	YDA 63S4
	0.10	14022	29900	TFF	97 / TRF57	YDA 63S4
	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	97 / TRF57	YDA 63M4
	0.24	5615	29900	TFAF	97 / TRF57	YDA 63M4
	0.27	4961	29900	TF	97 / TRF57	YDA 63M4
	0.30	4333	29900	TFF	97 / TRF57	YDA 63M4
	0.33	3906	29900	TFA	97 / TRF57	YDA 63L4
	0.39	3352	29900	TFAF	97 / TRF57	YDA 63L4
	0.45	2907	29900	TF	97 / TRF57	YDA 63L4
				TFF	97 / TRF57	YDA 63L4
	0.54	2553	29900	TFA	97 / TRF57	YDA 71D4
	0.61	2245	29900	TFAF	97 / TRF57	YDA 71D4
	0.70	1970	29900	TF	97 / TRF57	YDA 71D4
				TFF	97 / TRF57	YDA 71D4
	0.79	1722	29900	TFA	97 / TRF57	YDA 80K4
	0.89	1527	29900	TFAF	97 / TRF57	YDA 80K4
	1.0	1327	29900	TF	97 / TRF57	YDA 80K4
				TFF	97 / TRF57	YDA 80K4
	1.2	1171	29900	TFA	97 / TRF57	YDA 80N4
	1.4	1022	29900	TFAF	97 / TRF57	YDA 80N4
				TF	97 / TRF57	YDA 80N4
				TFF	97 / TRF57	YDA 80N4
	1.6	898	29900	TFA	97 / TRF57	YDA 90S4
	1.8	784	29900	TFAF	97 / TRF57	YDA 90S4
	2.0	690	29900	TF	97 / TRF57	YDA 90S4
				TFF	97 / TRF57	YDA 90S4
	2.3	605	29900	TFA	97 / TRF57	YDA 90L4
	2.7	529	29900	TFAF	97 / TRF57	YDA 90L4
	3.0	467	29900	TF	97 / TRF57	YDA 90L4
				TFF	97 / TRF57	YDA 90L4
	3.5	406	29900	TFA	97 / TRF57	YDA 100M4
	3.9	363	29900	TFAF	97 / TRF57	YDA 100M4
				TF	97 / TRF57	YDA 100M4
				TFF	97 / TRF57	YDA 100M4
	4.9	285	29900	TFA	97 / TRF57	YDA 100L4
5.7	245	29900	TFAF	97 / TRF57	YDA 100L4	
			TF	97 / TRF57	YDA 100L4	
			TFF	97 / TRF57	YDA 100L4	
7680	0.05	25375	49800	TFA	107 / TRF77	YDA 63S4
	0.06	21652	49800	TFAF	107 / TRF77	YDA 63S4
	0.07	18933	49800	TF	107 / TRF77	YDA 63S4
	0.08	16888	49800	TFF	107 / TRF77	YDA 63S4
	0.09	14767	49800			
	0.12	11348	49800	TFA	107 / TRF77	YDA 63M4
	0.13	10039	49800	TFAF	107 / TRF77	YDA 63M4
	0.15	8548	49800	TF	107 / TRF77	YDA 63M4
	0.17	7674	49800	TFF	107 / TRF77	YDA 63M4
	0.19	6767	49800	TFA	107 / TRF77	YDA 63L4
	0.22	5954	49800	TFAF	107 / TRF77	YDA 63L4
	0.25	5223	49800	TF	107 / TRF77	YDA 63L4
				TFF	107 / TRF77	YDA 63L4

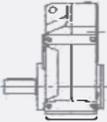
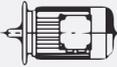
PERFORMANCE PARAMETER

M2max [Nm]	n2 [r/min]	i	Fr ₂ [N]			
7680	0.30	4567	49800	TFA	107 / TRF77	YDA 71D4
	0.39	3521	49800	TFAF	107 / TRF77	YDA 71D4
				TF	107 / TRF77	YDA 71D4
				TFF	107 / TRF77	YDA 71D4
	0.45	3037	49800	TFA	107 / TRF77	YDA 80K4
	0.49	2756	49800	TFAF	107 / TRF77	YDA 80K4
	0.57	2369	49800	TF	107 / TRF77	YDA 80K4
				TFF	107 / TRF77	YDA 80K4
	0.67	2068	49800	TFA	107 / TRF77	YDA 80N4
	0.76	1826	49800	TFAF	107 / TRF77	YDA 80N4
				TF	107 / TRF77	YDA 80N4
				TFF	107 / TRF77	YDA 80N4
	0.88	1597	49800	TFA	107 / TRF77	YDA 90S4
	1.0	1401	49800	TFAF	107 / TRF77	YDA 90S4
	1.1	1243	49800	TF	107 / TRF77	YDA 90S4
				TFF	107 / TRF77	YDA 90S4
	1.3	1087	49800	TFA	107 / TRF77	YDA 90L4
	1.5	950	49800	TFAF	107 / TRF77	YDA 90L4
				TF	107 / TRF77	YDA 90L4
				TFF	107 / TRF77	YDA 90L4
1.7	834	49800	TFA	107 / TRF77	YDA 100M4	
1.9	736	49800	TFAF	107 / TRF77	YDA 100M4	
2.2	640	49800	TF	107 / TRF77	YDA 100M4	
			TFF	107 / TRF77	YDA 100M4	
2.5	560	49800	TFA	107 / TRF77	YDA 100L4	
2.9	489	49800	TFAF	107 / TRF77	YDA 100L4	
3.2	436	49800	TF	107 / TRF77	YDA 100L4	
			TFF	107 / TRF77	YDA 100L4	
3.8	370	49800	TFA	107 / TRF77	YDA 112M4	
4.3	333	49800	TFAF	107 / TRF77	YDA 112M4	
			TF	107 / TRF77	YDA 112M4	
			TFF	107 / TRF77	YDA 112M4	
12000	0.06	24478	90000	TFA	127 / TRF77	YDA 63S4
	0.06	22323	90000	TFAF	127 / TRF77	YDA 63S4
	0.07	19048	90000	TF	127 / TRF77	YDA 63S4
				TFF	127 / TRF77	YDA 63S4
	0.08	16656	90000	TFA	127 / TRF77	YDA 63M4
	0.09	14722	90000	TFAF	127 / TRF77	YDA 63M4
	0.10	12912	90000	TF	127 / TRF77	YDA 63M4
	0.11	11656	90000	TFF	127 / TRF77	YDA 63M4
	0.13	10191	90000	TFA	127 / TRF77	YDA 63L4
	0.15	8831	90000	TFAF	127 / TRF77	YDA 63L4
				TF	127 / TRF77	YDA 63L4
				TFF	127 / TRF77	YDA 63L4
	0.18	7643	90000	TFA	127 / TRF77	YDA 71D4
	0.21	6715	90000	TFAF	127 / TRF77	YDA 71D4
	0.23	5925	90000	TF	127 / TRF77	YDA 71D4
				TFF	127 / TRF77	YDA 71D4
	0.26	5153	90000	TFA	127 / TRF77	YDA 80K4
	0.30	4533	90000	TFAF	127 / TRF77	YDA 80K4
	0.35	3926	90000	TF	127 / TRF77	YDA 80K4
				TFF	127 / TRF77	YDA 80K4
0.40	3454	90000	TFA	127 / TRF77	YDA 80N4	
0.46	3031	90000	TFAF	127 / TRF77	YDA 80N4	
			TF	127 / TRF77	YDA 80N4	
			TFF	127 / TRF77	YDA 80N4	
0.52	2672	90000	TFA	127 / TRF77	YDA 80N4	
			TFAF	127 / TRF77	YDA 80N4	
			TF	127 / TRF77	YDA 80N4	
			TFF	127 / TRF77	YDA 80N4	

PERFORMANCE PARAMETER

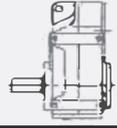
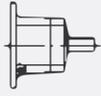
M2max [Nm]	n2 [r/min]	i	F _{r2} [N]			
12000	0.59	2357	90000	TFA	127 / TRF77	YDA 90S4
	0.69	2038	90000	TFAF	127 / TRF77	YDA 90S4
	0.79	1784	90000	TF	127 / TRF77	YDA 90S4
				TFF	127 / TRF77	YDA 90S4
	0.88	1606	90000	TFA	127 / TRF77	YDA 90L4
	1.0	1390	90000	TFAF	127 / TRF77	YDA 90L4
				TF	127 / TRF77	YDA 90L4
				TFF	127 / TRF77	YDA 90L4
	1.2	1220	90000	TFA	127 / TRF77	YDA 100M4
	1.3	1077	90000	TFAF	127 / TRF77	YDA 100M4
	1.5	930	90000	TF	127 / TRF77	YDA 100M4
				TFF	127 / TRF77	YDA 100M4
	1.7	820	90000	TFA	127 / TRF77	YDA 100L4
	1.9	727	90000	TFAF	127 / TRF77	YDA 100L4
	2.2	648	90000	TF	127 / TRF77	YDA 100L4
				TFF	127 / TRF77	YDA 100L4
	2.6	549	90000	TFA	127 / TRF77	YDA 112M4
	2.9	495	90000	TFAF	127 / TRF77	YDA 112M4
				TF	127 / TRF77	YDA 112M4
				TFF	127 / TRF77	YDA 112M4
	3.3	428	90000	TFA	127 / TRF77	YDA 132S4
	3.8	376	90000	TFAF	127 / TRF77	YDA 132S4
				TF	127 / TRF77	YDA 132S4
				TFF	127 / TRF77	YDA 132S4
3.0	483	90000	TFA	127 / TRF87	YDA 132S4	
3.4	418	90000	TFAF	127 / TRF87	YDA 132S4	
3.8	374	90000	TF	127 / TRF87	YDA 132S4	
			TFF	127 / TRF87	YDA 132S4	
4.6	312	90000	TFA	127 / TRF87	YDA 132M4	
4.9	293	90000	TFAF	127 / TRF87	YDA 132M4	
			TF	127 / TRF87	YDA 132M4	
			TFF	127 / TRF87	YDA 132M4	
5.6	259	90000	TFA	127 / TRF87	YDA 132ML4	
6.5	223	90000	TFAF	127 / TRF87	YDA 132ML4	
			TF	127 / TRF87	YDA 132ML4	
			TFF	127 / TRF87	YDA 132ML4	
7.3	198	90000	TFA	127 / TRF87	YDT160M4	
			TFAF	127 / TRF87	YDT160M4	
			TF	127 / TRF87	YDT160M4	
			TFF	127 / TRF87	YDT160M4	
18000	0.04	31434	100300	TFA	157 / TRF97	YDA 80K4
	0.05	26173	100300	TFAF	157 / TRF97	YDA 80K4
	0.06	23464	100300	TF	157 / TRF97	YDA 80K4
	0.07	20212	100300	TFF	157 / TRF97	YDA 80K4
	0.08	17984	100300			
	0.08	16358	100300			
	0.10	13751	100300			
	0.11	12235	100300			
	0.14	10033	100300	TFA	157 / TRF97	YDA 90S4
	0.16	9021	100300	TFAF	157 / TRF97	YDA 90S4
	0.17	8026	100300	TF	157 / TRF97	YDA 90S4
				TFF	157 / TRF97	YDA 90S4
	0.19	7075	100300	TFA	157 / TRF97	YDA 80K4
	0.22	6295	100300	TFAF	157 / TRF97	YDA 80K4
				TF	157 / TRF97	YDA 80K4
				TFF	157 / TRF97	YDA 80K4
	0.26	5404	100300	TFA	157 / TRF97	YDA 80N4
				TFAF	157 / TRF97	YDA 80N4
			TF	157 / TRF97	YDA 80N4	
			TFF	157 / TRF97	YDA 80N4	

PERFORMANCE PARAMETER

M2max [Nm]	n2 [r/min]	i	Fr ₂ [N]			
18000	0.29	4831	100300	TFA	157 / TRF97	YDA 90S4
	0.34	4130	100300	TFAF	157 / TRF97	YDA 90S4
				TF	157 / TRF97	YDA 90S4
				TFF	157 / TRF97	YDA 90S4
	0.39	3607	100300	TFA	157 / TRF97	YDA 100M4
	0.44	3210	100300	TFAF	157 / TRF97	YDA 100M4
				TF	157 / TRF97	YDA 100M4
				TFF	157 / TRF97	YDA 100M4
	0.50	2780	100300	TFA	157 / TRF97	YDA 90S4
				TFAF	157 / TRF97	YDA 90S4
				TF	157 / TRF97	YDA 90S4
				TFF	157 / TRF97	YDA 90S4
	0.98	1441	100300	TFA	157 / TRF97	YDA 100M4
				TFAF	157 / TRF97	YDA 100M4
				TF	157 / TRF97	YDA 100M4
				TFF	157 / TRF97	YDA 100M4
	0.58	2427	100300	TFA	157 / TRF97	YDA 90L4
	0.65	2185	100300	TFAF	157 / TRF97	YDA 90L4
				TF	157 / TRF97	YDA 90L4
				TFF	157 / TRF97	YDA 90L4
	0.73	1944	100300	TFA	157 / TRF97	YDA 100M4
	0.84	1674	100300	TFAF	157 / TRF97	YDA 100M4
				TF	157 / TRF97	YDA 100M4
				TFF	157 / TRF97	YDA 100M4
	1.1	1308	100300	TFA	157 / TRF97	YDA 100L4
	1.2	1169	100300	TFAF	157 / TRF97	YDA 100L4
				TF	157 / TRF97	YDA 100L4
				TFF	157 / TRF97	YDA 100L4
1.5	953	100300	TFA	157 / TRF97	YDA 112M4	
1.7	845	100300	TFAF	157 / TRF97	YDA 112M4	
1.9	764	100300	TF	157 / TRF97	YDA 112M4	
			TFF	157 / TRF97	YDA 112M4	
2.1	680	100300	TFA	157 / TRF97	YDA 132S4	
2.5	576	100300	TFAF	157 / TRF97	YDA 132S4	
			TF	157 / TRF97	YDA 132S4	
			TFF	157 / TRF97	YDA 132S4	
2.8	503	100300	TFA	157 / TRF97	YDA 132M4	
3.2	446	100300	TFAF	157 / TRF97	YDA 132M4	
			TF	157 / TRF97	YDA 132M4	
			TFF	157 / TRF97	YDA 132M4	
4.1	353	100300	TFA	157 / TRF97	YDA 132ML4	
			TFAF	157 / TRF97	YDA 132ML4	
			TF	157 / TRF97	YDA 132ML4	
			TFF	157 / TRF97	YDA 132ML4	
4.8	302	100300	TFA	157 / TRF97	YDT 160M4	
5.3	273	100300	TFAF	157 / TRF97	YDT 160M4	
			TF	157 / TRF97	YDT 160M4	
			TFF	157 / TRF97	YDT 160M4	
6.3	232	100300	TFA	157 / TRF97	YDT 160L4	
7.2	202	100300	TFAF	157 / TRF97	YDT 160L4	
			TF	157 / TRF97	YDT 160L4	
			TFF	157 / TRF97	YDT 160L4	
7.5	197	100300	TFA	157 / TRF97	YDT 180M4	
			TFAF	157 / TRF97	YDT 180M4	
			TF	157 / TRF97	YDT 180M4	
			TFF	157 / TRF97	YDT 180M4	

PERFORMANCE PARAMETER

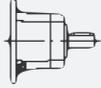
TF.. AD../Performance parameter

M2max [Nm]	n2 [r/min]	i	P1n [kWJ]	Fr ₂ [N]	Fr ₁ [N]			
130	10	140.74	0.16	4500	760	TFA	27	AD1
130	11	129.09	0.18	4500	760	TFAF	27	AD1
130	13	109.90	0.20	4500	755	TF	27	AD1
130	15	94.76	0.23	4500	750	TFF	27	AD1
130	16	88.32	0.25	4500	750			
130	18	77.21	0.28	4500	745			
130	19	72.37	0.30	4500	740			
130	22	63.86	0.34	4400	740			
130	25	56.62	0.38	4190	735			
130	28	50.19	0.42	3980	580			
130	30	46.78	0.45	3860	570			
130	34	40.89	0.51	3640	550			
130	37	38.33	0.55	3530	540			
130	41	33.83	0.62	3340	520			
130	47	29.56	0.70	3150	1150	TFA	27	AD2
130	52	27.18	0.76	3030	1130	TFAF	27	AD2
130	60	23.25	0.88	2820	1090	TF	27	AD2
130	69	20.15	1.0	2630	1040	TFF	27	AD2
130	74	18.84	1.1	2550	1570			
130	86	16.28	1.2	2370	1550			
130	101	13.84	1.5	2180	1530			
130	113	12.35	1.6	2060	1510			
130	133	10.55	1.9	1900	1490			
130	143	9.88	2.0	1830	1480			
130	149	9.40	2.1	1660	1230			
130	172	8.13	2.3	1590	1220			
114	203	6.91	2.5	1530	1250			
109	227	6.17	2.7	1480	1250			
100	266	5.27	2.9	1440	1260			
96	284	4.93	3.0	1420	1270			
87	337	4.16	3.2	1380	1280			
200	11	128.51	0.26	4290	660	TFA	37	AD1
200	12	117.88	0.28	4290	655	TFAF	37	AD1
200	14	100.36	0.33	4290	640	TF	37	AD1
200	16	86.53	0.38	4290	625	TFF	37	AD1
200	17	80.65	0.40	4290	615			
200	20	70.50	0.46	4290	600			
200	21	66.09	0.49	4290	590			
200	24	58.32	0.55	4290	570			
200	26	54.54	0.58	4290	335			
200	27	51.70	0.62	4290	550			
200	30	47.02	0.69	4290	1490	TFA	37	AD2
200	32	43.83	0.74	4290	1470	TFAF	37	AD2
200	37	38.31	0.84	4290	1430	TF	37	AD2
200	39	35.91	0.90	4290	1410	TFF	37	AD2
200	44	31.69	1.0	4290	1370			
200	50	28.09	1.1	4060	1640			
200	59	23.88	1.3	3760	1620			
200	59	23.63	1.3	3740	1420			
200	68	20.57	1.5	3500	1400			
200	73	19.27	1.6	3390	1390			
200	82	17.03	1.8	3180	1370			
200	89	15.81	2.0	3070	1350			
200	98	14.33	2.2	2910	1340			
200	109	12.87	2.4	2750	1320	TFA	37	AD2
190	126	11.08	2.6	2620	1320	TFAF	37	AD2
185	134	10.42	2.7	2580	1320	TF	37	AD2
175	156	8.97	3.0	2460	1320	TFF	37	AD2

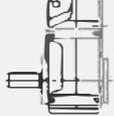
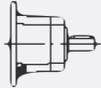
PERFORMANCE PARAMETER

$M_2 \text{ max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]		
170	175	8.01	3.2	2360	1300	TFA	37 AD2
121	188	7.44	2.5	2560	1190	TFAF	37 AD2
140	208	6.74	3.2	2270	1070	TF	37 AD2
135	231	6.05	3.4	2190	1060	TFF	37 AD2
125	269	5.21	3.7	2120	1080		
120	286	4.90	3.7	2100	1100		
110	332	4.22	4.0	2030	1120		
105	372	3.77	4.3	1970	1110		
400	7.3	190.76	0.35	5920	555	TFA	47 AD1
400	8	175.38	0.37	5920	545	TFAF	47 AD1
400	9.3	150.06	0.43	5920	530	TF	47 AD1
400	11	130.07	0.50	5920	510	TFF	47 AD1
400	12	121.57	0.53	5920	500		
400	13	105.09	0.61	5920	475		
400	16	89.29	0.71	5920	450		
400	18	79.72	0.80	5920	430		
400	21	68.09	0.94	5920	395		
400	21	65.36	0.98	5920	1180	TFA	47 AD2
400	25	56.49	1.1	5920	1600	TFAF	47 AD2
400	29	48.00*	1.3	5920	1580	TF	47 AD2
400	33	42.86	1.5	5920	1570	TFF	47 AD2
400	38	36.61	1.7	5920	1550		
400	41	34.29	1.8	5920	1540		
400	48	28.88	2.2	5790	1500		
400	45	30.86	2.0	5920	1230	TFA	47 AD2
400	48	29.32	2.1	5830	1220	TFAF	47 AD2
400	54	25.72	2.4	5470	1200	TF	47 AD2
400	64	21.82	2.8	5030	1170	TFF	47 AD2
400	71	19.70	3.1	4770	1140		
400	81	17.33	3.5	4450	1120		
400	86	16.36	3.7	4320	1100		
400	100	13.93	4.4	3950	1040		
400	111	12.66	4.8	3740	1010		
380	128	10.97	5.3	3580	990		
250	156	8.96	4.3	3860	860		
230	178	7.88	4.5	3770	910		
225	188	7.44*	4.6	3710	910		
200	221	6.34	4.8	3610	950		
191	243	5.76	5.1	3520	960		
173	281	4.99	5.3	3430	990		
600	7	199.70	0.49	9200	1530	TFA	57 AD2
600	7.6	183.60	0.54	9200	1520	TFAF	57 AD2
600	8.9	157.09	0.62	9200	1480	TF	57 AD2
600	10	136.16	0.72	9200	1450	TFF	57 AD2
600	11	127.27	0.76	9200	1440		
600	13	110.01	0.88	9200	1380		
600	15	93.47	1.0	9200	1340		
600	17	83.46	1.1	9200	1630		
600	19	72.98	1.3	9200	1480		
600	21	68.22	1.4	9200	1470		
600	24	58.97	1.6	9200	1440		
600	28	50.10	1.9	9200	1420		
600	31	44.73	2.1	9160	1400		
600	37	38.21	2.4	8510	1370		
600	39	35.79	2.6	8250	1350		
590	46	30.15	3.1	7650	1310		
265	35	40.13	1.0	10700	620	TFA	57 AD2
440	41	34.24	2.0	9030	1140	TFAF	57 AD2
415	47	29.94	2.1	8660	1170	TF	57 AD2
410	49	28.45	2.2	8510	1170	TFF	57 AD2
575	56	24.96	3.5	7060	820		

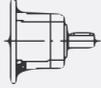
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M2max [Nm]	n2 [r/min]	i	P1n [kW]	F _{r2} [N]	F _{r1} [N]		
600	66	21.17	4.4	6350	1760	TFA	AD3
600	73	19.11	4.8	6020	1720	TFAF	AD3
600	83	16.81	5.4	5620	1690	TF	AD3
600	88	15.88	5.8	5450	1660	TFF	AD3
600	104	13.52	6.8	4980	1570		
600	114	12.29	7.5	4710	1520		
600	132	10.64	8.6	4320	1430		
310	150	9.31	5.1	5490	1650		
400	171	8.19	7.5	4580	1240		
390	181	7.73	7.7	4510	1250		
355	213	6.58	8.2	4370	1290		
335	234	5.98	8.5	4290	1320		
305	270	5.18	9.0	4190	1370		
820	6.1	228.99	0.59	10300	1440	TFA	AD2
820	7.2	195.39	0.68	10300	1400	TFAF	AD2
820	8.2	170.85	0.77	10300	1380	TF	AD2
820	8.6	162.31	0.81	10300	1380	TFF	AD2
820	9.8	142.40	0.93	10300	1330		
820	12	120.79	1.1	10300	1630		
820	13	109.04	1.2	10300	1620		
820	15	95.94	1.4	10300	1610		
820	15	90.59	1.4	10300	1610		
820	18	79.76	1.6	10300	1440		
820	21	67.65	1.9	10300	1420		
820	23	61.07	2.1	10300	1400		
820	26	53.73	2.4	10300	1390		
820	28	50.74	2.5	10300	1380		
820	32	43.20	3.0	10300	1340		
780	36	39.26	3.1	10700	1340		
740	41	34.01	3.4	11000	1330		
590	39	36.30	2.5	12000	1110	TFA	AD2
						TFAF	AD2
						TF	AD2
						TFF	AD2
820	44	32.08	3.9	10300	1760	TFA	AD3
820	51	27.41	4.6	10300	1720	TFAF	AD3
820	56	25.13	5.0	10300	1700	TF	AD3
820	63	22.05	5.7	10300	1660	TFF	AD3
820	67	20.90*	6.0	10300	1640		
820	77	18.29	6.8	10300	1580		
820	85	16.48	7.6	10300	1520		
820	97	14.46	8.7	10300	1450		
800	110	12.76	9.6	10500	1410		
745	124	11.31	10.1	10900	1440		
670	145	9.66	10.6	11500	1480		
450	154	9.08	7.6	11800	1210		
440	163	8.60	7.8	11700	1240		
410	186	7.53	8.3	11300	1300		
385	206	6.78	8.7	11000	1320		
355	235	5.95	9.1	10700	1370		
330	267	5.25	9.6	10300	1410		
305	301	4.66	10.0	10100	1440		
275	352	3.97	10.6	9680	1490		
1500	5	281.71	0.86	15700	920	TFA	AD2
1500	5.3	262.93	0.91	15700	920	TFAF	AD2
1500	6.2	225.79	1.1	15700	1550	TF	AD2
1500	7.1	198.31	1.2	15700	1540	TFF	AD2
1500	7.4	188.40	1.3	15700	1540		
1500	8.4	166.47	1.4	15700	1520		
1500	9.8	142.27	1.7	15700	1500		
1500	11	130.42	1.8	15700	1490		
1500	12	114.45	2.1	15700	1480		

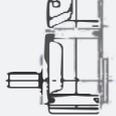
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$M_{2\max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]			
1500	13	108.46*	2.2	15700	1470	TFA	77	AD2
1500	15	94.93	2.5	15700	1450	TFAF	77	AD2
1500	16	85.52	2.7	15700	1430	TF	77	AD2
1500	19	75.02	3.1	15700	1400	TFF	77	AD2
1500	19	72.50	3.2	15700	1110			
1500	21	66.46	3.5	15700	1100			
1500	24	58.32	4.0	15700	1070			
1500	25	55.27	4.2	15700	1050			
1500	29	48.37	4.8	15700	1010			
1500	32	43.58	5.4	15700	2010	TFA	77	AD3
1500	37	38.23	6.1	15700	1960	TFAF	77	AD3
1500	42	33.74	6.9	15700	1910	TF	77	AD3
1500	47	29.91	7.8	15700	1850	TFF	77	AD3
1450	55	25.54	8.9	16100	1810			
1110	38	36.58	4.7	17900	1580	TFA	77	AD3
1110	44	31.51	5.4	17900	1540	TFAF	77	AD3
1200	49	28.75	6.4	17400	1400	TF	77	AD3
						TFF	77	AD3
1500	55	25.50*	9.1	15700	3010	TFA	77	AD4
1500	65	21.43	10.7	15700	2940	TFAF	77	AD4
1500	71	19.70	11.6	15700	2890	TF	77	AD4
1500	80	17.49	13.1	15700	2830	TFF	77	AD4
1500	90	15.64*	14.6	15700	2760			
1420	100	14.06	15.4	16100	2790			
1280	115	12.20	16.0	15700	2880			
1180	128	10.93	16.5	15400	2950			
810	151	9.30	13.3	15000	2630			
765	170	8.26	14.1	14600	2680			
720	190	7.39	14.9	14200	2730			
670	211	6.64	15.4	13900	2800			
605	243	5.76	16.0	13500	2880			
555	271	5.16	16.4	13200	2950			
470	327	4.28	16.8	12700	3080			
3000	5.2	270.68	1.7	19800	1360	TFA	87	AD2
3000	5.5	255.37	1.8	19800	1360	TFAF	87	AD2
3000	6.1	228.93	2.0	19800	1340	TF	87	AD2
3000	7.1	197.20	2.4	19800	1320	TFF	87	AD2
3000	7.8	179.97	2.6	19800	1310			
3000	8.8	159.61	2.9	19800	1290			
3000	10	134.16	3.5	19800	1260			
3000	11	123.29	3.8	19800	1240			
3000	13	109.49	4.3	19800	1210			
3000	14	97.89	4.8	19800	1180			
3000	16	88.01	5.3	19800	1150			
3000	18	76.39	6.1	19800	1100			
3000	20	68.40	6.8	19600	2020	TFA	87	AD3
3000	25	56.75	8.2	17700	1940	TFAF	87	AD3
2940	28	50.36	9.1	16800	1530	TF	87	AD3
2820	31	45.28	9.7	16200	1530	TFF	87	AD3
2720	36	39.30	10.7	15400	1500			
2610	40	35.19	11.6	14900	3520	TFA	87	AD4
2510	48	29.20	13.4	13800	3460	TFAF	87	AD4
						TF	87	AD4
						TFF	87	AD4
2560	41	33.92	11.5	14800	2530	TFA	87	AD4
2390	49	28.78	12.7	14100	2600	TFAF	87	AD4
						TF	87	AD4
						TFF	87	AD4
3000	53	26.50	17.5	11100	5200	TFA	87	AD5
3000	59	23.68	19	10300	5120	TFAF	87	AD5
3000	66	21.32*	21	9530	5050	TF	87	AD5
3000	73	19.31	24	8840	4970	TFF	87	AD5

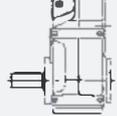
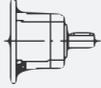
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M2max [Nm]	n2 [r/min]	i	P1n [kW]	Fr2 [N]	Fr1 [N]			
3000	82	17.12	27	8040	4880	TFA	87	AD5
3000	90	15.48	30	7390	4780	TFAF	87	AD5
3000	107	13.12*	35	6370	4570	TF	87	AD5
3000	122	11.46	40	5580	4410	TFF	87	AD5
2880	146	9.58	46	5050	4260			
1530	169	8.29	28	8890	4430			
1530	190	7.35	32	8280	4320			
1530	211	6.65	35	7790	4200			
1530	248	5.63	41	7020	3950			
1510	285	4.92	47	6510	3710			
1260	340	4.12	47	6830	4190			
4300	5.1	276.77	2.5	29900	2190	TFA	97	AD3
4300	5.5	253.41	2.7	29900	2180	TFAF	97	AD3
4300	6.2	223.88	3.0	29900	2160	TF	97	AD3
4300	7.4	189.92	3.6	29900	2130	TFF	97	AD3
4300	8	174.87	3.9	29900	2120			
4300	9	156.30	4.3	29900	2090			
4300	10	140.71	4.8	29900	2070			
4300	11	127.42	5.3	29900	2050			
4300	12	112.99	5.9	29900	2020			
4300	14	102.16	6.6	29900	1990			
4300	14	97.58	6.9	29900	1520			
4300	16	89.85	7.5	29900	1480			
4300	16	86.59	7.7	29900	1930			
4300	17	80.31	8.3	29900	1440			
4300	19	75.63	8.9	29900	1880			
4300	19	72.29	9.3	29900	1400			
4300	21	65.47	10.2	29000	3400	TFA	97	AD4
4300	24	58.06	11.5	27200	3360	TFAF	97	AD4
4300	27	52.49	12.8	25800	3310	TF	97	AD4
4300	31	44.49	15.1	23600	3210	TFF	97	AD4
4300	36	38.86	17.3	21900	3130			
4300	43	32.50	21.0	19800	2990			
3070	32	43.28	10.8	27600	2700	TFA	97	AD4
3070	38	36.64	12.8	25500	2620	TFAF	97	AD4
						TF	97	AD4
						TFF	97	AD4
4300	41	33.91	19	20300	4930	TFA	97	AD5
4300	46	30.39	22	19000	4860	TFAF	97	AD5
4300	51	27.44*	24	17900	4730	TF	97	AD5
4300	56	24.92	26	16800	4650	TFF	97	AD5
4300	63	22.11	30	15600	4550			
4300	70	20.07	33	14600	4450			
4300	81	17.25*	38	13200	4270			
4300	93	15.06	44	11900	4090			
4300	110	12.77	51	10500	6830	TFA	97	AD6
4100	125	11.16	56	10000	6780	TFAF	97	AD6
2360	154	9.06	40	13400	6450	TF	97	AD6
2360	170	8.22	44	12600	6330	TFF	97	AD6
2360	198	7.07	51	11500	6080			
2250	227	6.17	56	11100	6110			
1930	268	5.23	56	11300	6470			
1690	306	4.57	56	11400	6760			
7680	5.5	254.40*	4.7	49800	1860	TFA	107	AD3
7680	6.5	215.37	5.6	49800	1830	TFAF	107	AD3
7680	7	199.31	6.0	49800	1810	TF	107	AD3
7680	7.8	178.64	6.7	49800	1780	TFF	107	AD3
7680	8.7	161.28*	7.4	49800	1720			
7680	9.6	146.49	8.2	49800	1690			
7680	11	129.97	9.2	49800	1650			
7680	12	117.94	10.2	49800	1610			

PERFORMANCE PARAMETER

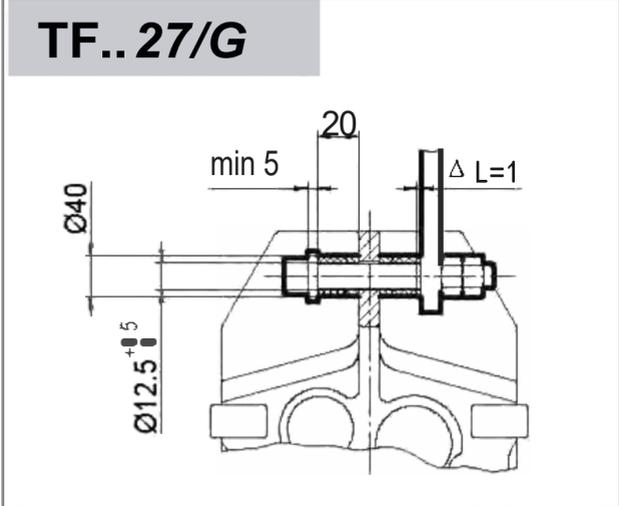
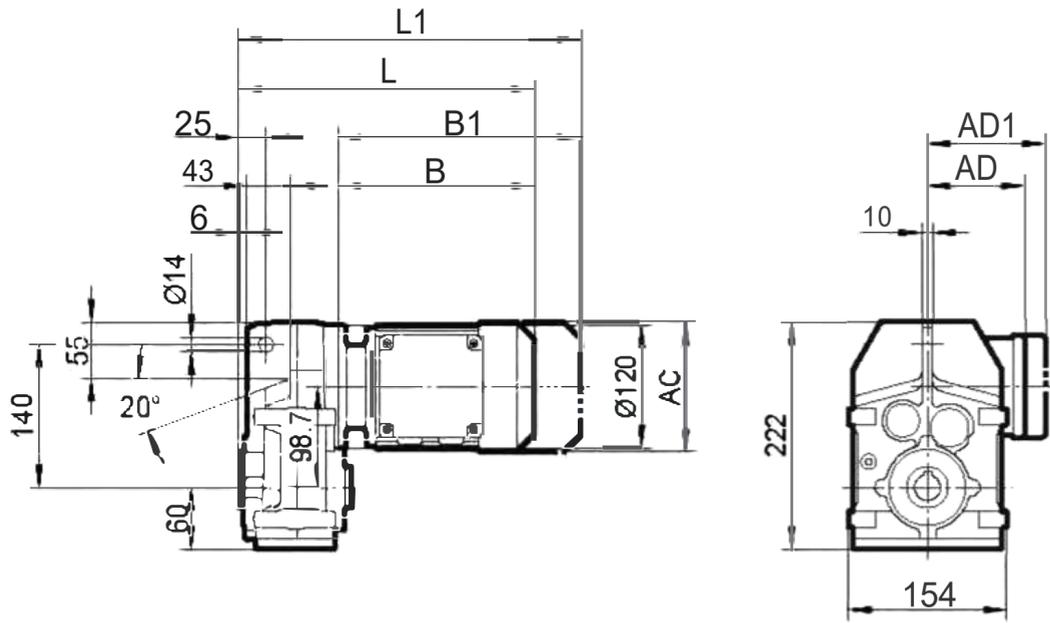
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7680	14	101.38*	11.8	49800	3570	TFA	107	AD4
7680	15	92.47*	13.0	49800	3020	TFAF	107	AD4
7680	16	88.49	13.5	49800	3510	TF	107	AD4
7680	17	83.99	14.3	49800	2970	TFF	107	AD4
7680	19	74.52	16.1	49800	2910			
7680	21	67.62	17.7	49800	2860			
7680	24	58.12*	20	47800	2750			
7680	28	50.73	23	45100	2650			
7680	33	43.03	28	42000	5730	TFA	107	AD5
7680	37	37.61	32	39500	5600	TFAF	107	AD5
7680	44	31.80	38	36500	5440	TF	107	AD5
						TFF	107	AD5
7400	41	33.79*	33	38300	6560	TFA	107	AD6
7840	51	27.57	43	33700	5890	TFAF	107	AD6
7840	56	25.14	48	32200	5660	TF	107	AD6
7840	64	21.76*	55	30000	5220	TFF	107	AD6
7090	73	19.20*	56	30100	6010			
6120	84	16.58	56	30600	6470			
5410	95	14.67	56	30800	6760			
4540	114	12.33	56	30800	7130			
4000	141	9.96	61	29600	7210			
3580	144	9.69	56	29300	6000			
3090	167	8.37	56	29100	6460			
2730	189	7.40	56	28800	6770			
2290	225	6.22	56	28200	7130			
12000	8.2	170.83	11.0	90000	3170	TFA	127	AD4
12000	9.1	153.67*	12.2	90000	3120	TFAF	127	AD4
12000	11	125.37	14.9	90000	2990	TF	127	AD4
12000	12	114.34	16.4	88000	2950	TFF	127	AD4
12000	14	98.95	19	83000	2860			
12000	16	87.31*	21	78900	2780			
12000	19	75.41*	25	74300	2680			
12000	20	70.07	27	72100	4910	TFA	127	AD5
12000	22	63.91	29	69400	4840	TFAF	127	AD5
12000	25	55.31	33	65300	4700	TF	127	AD5
12000	29	48.80	38	61800	4580	TFF	127	AD5
12000	33	42.15	44	57900	4410			
12000	38	37.28	50	54800	7210	TFA	127	AD6
						TFAF	127	AD6
						TF	127	AD6
						TFF	127	AD6
12000	45	31.33	59	50600	17000	TFA	127	AD7
12000	55	25.30	73	45700	16600	TFAF	127	AD7
						TF	127	AD7
						TFF	127	AD7
8500	52	26.86	48	55300	4940	TFA	127	AD6
8500	57	24.57	53	53300	4730	TFAF	127	AD6
						TF	127	AD6
						TFF	127	AD6
12000	65	21.38	86	42000	23800	TFA	127	AD8
10800	74	18.87	87	42300	24200	TFAF	127	AD8
11000	86	16.36	103	39000	23800	TF	127	AD8
11000	96	14.55	115	36200	23600	TFF	127	AD8
10000	112	12.54	122	36400	23900			
9040	137	10.19	135	35000	23900			
7000	158	8.86	121	36400	22700			
6000	178	7.88	116	37000	23500			
6030	206	6.80	136	34700	23200			
4900	254	5.52	136	34500	23900			
4150	299	4.68	135	34100	24400			

PERFORMANCE PARAMETER

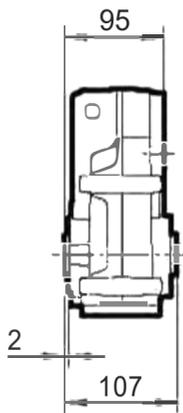
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18000	5.2	267.43	10.6	100300	6320	TFA	AD5
18000	6.4	217.62*	13.0	100300	6250	TFAF	AD5
18000	7.9	178.20*	15.8	100300	6140	TF	AD5
18000	8.6	162.96	17.2	100300	6100	TFF	AD5
18000	9.9	141.80*	20	100300	6030		
18000	11	125.14	22	100300	5960		
18000	13	108.49	26	100300	5870		
18000	15	96.53*	29	100300	5780		
18000	16	85.80*	32	95700	4340		
18000	18	78.46	35	92300	4260		
18000	21	68.28*	41	87000	4110		
18000	23	60.25	46	82500	3910		
18000	27	52.24	53	77500	6770	TFA	AD6
						TFAF	AD6
						TF	AD6
						TFF	AD6
18000	30	46.48*	60	73600	16700	TFA	AD7
18000	35	40.06	69	68900	16500	TFAF	AD7
18000	43	32.55	85	62500	15700	TF	AD7
						TFF	AD7
18000	51	27.60	101	57800	25800	TFA	AD8
						TFAF	AD8
						TF	AD8
						TFF	AD8
8000	26	53.55	23	98300	4570	TFA	AD5
						TFAF	AD5
						TF	AD5
						TFF	AD5
10000	32	43.94*	35	87800	6580	TFA	AD6
11000	39	35.75*	47	79300	5160	TFAF	AD6
						TF	AD6
						TFF	AD6
17000	49	28.60*	91	60800	23300	TFA	AD8
15000	55	25.43	90	61500	24000	TFAF	AD8
18000	63	22.16	124	51800	22400	TF	AD8
17000	71	19.77	131	50900	22600	TFF	AD8
18000	83	16.85	161	44900	21700		
17000	100	13.96	184	42500	21500		
16000	117	11.92	203	40900	21400		

OUTLINE DIMENSION SHEET

TFA27..

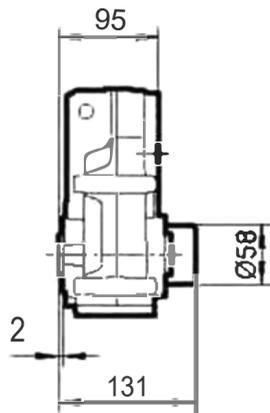


TFA27..

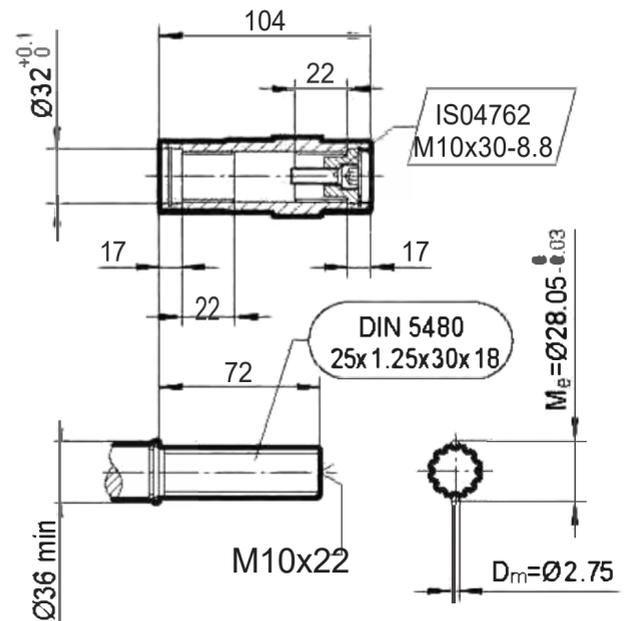
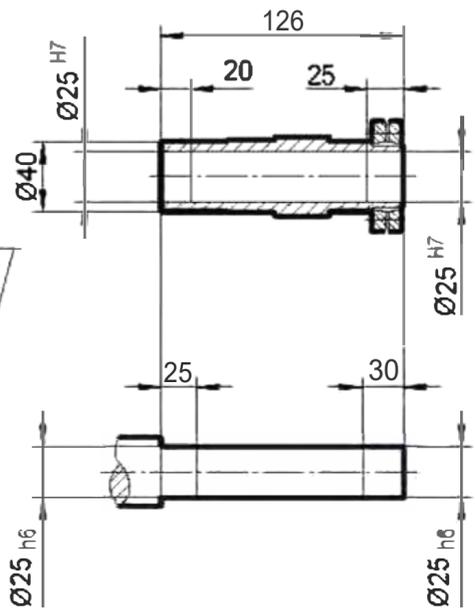
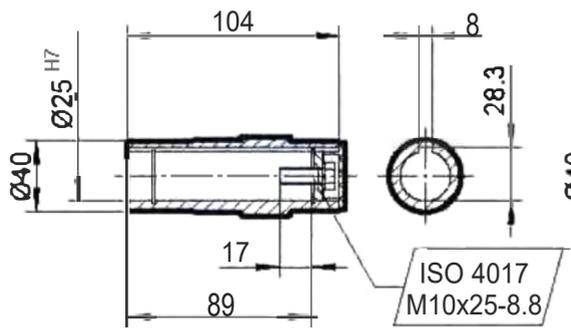
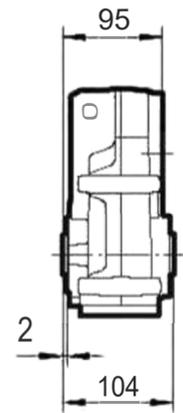


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max.YDA80 ..



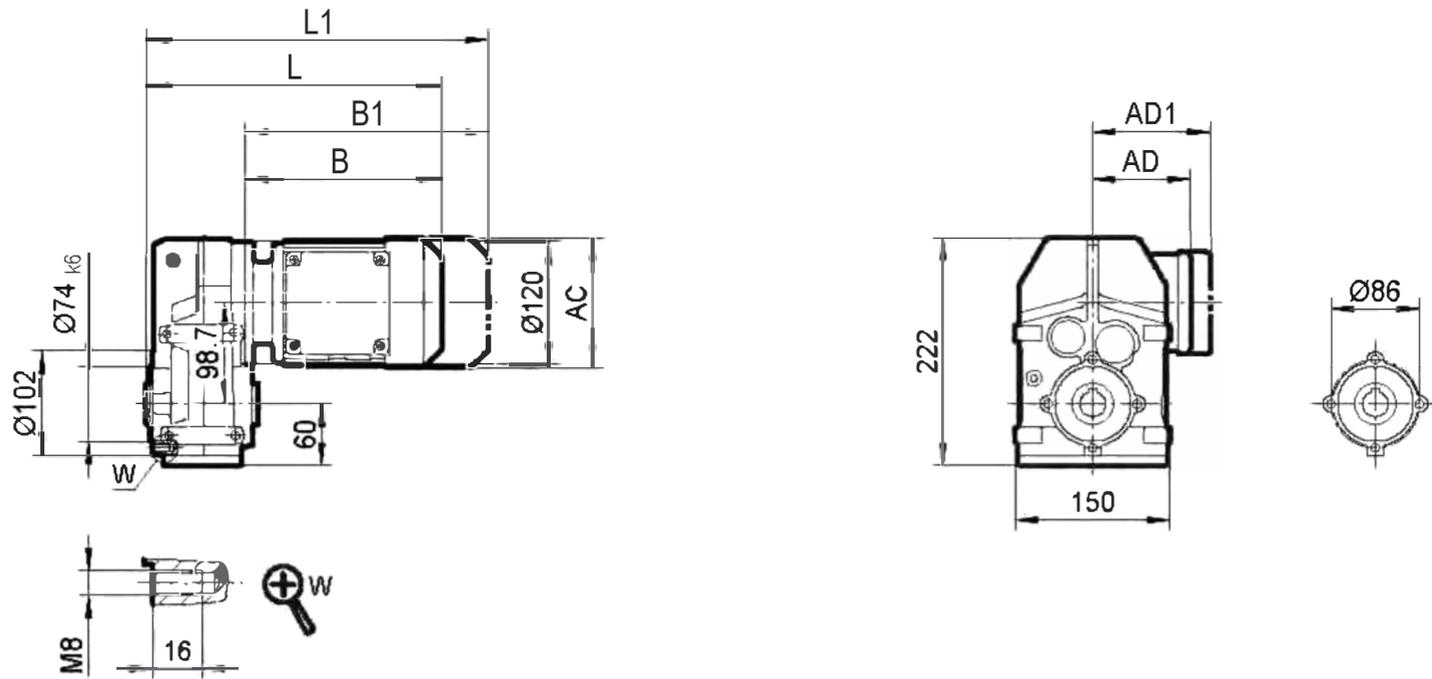
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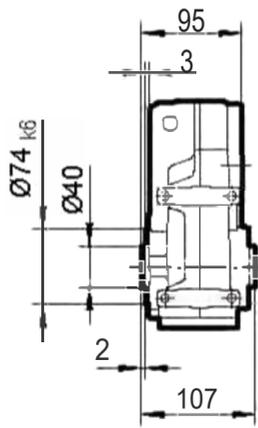
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AC	132	145	145	197					
AD	105	122	122	154					
AD1	105	127	127	161					
B	191	206	256	276					
B1	246	269	319	361					
L	286	301	351	371					
L1	341	364	414	456					

OUTLINE DIMENSION SHEET

TFAZ27..

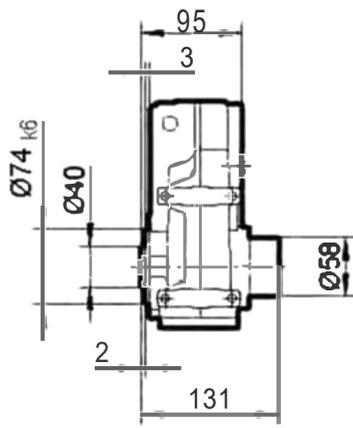


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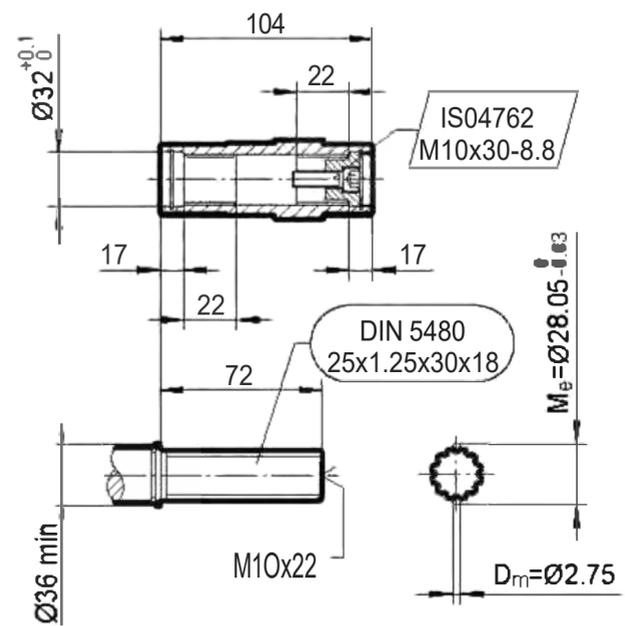
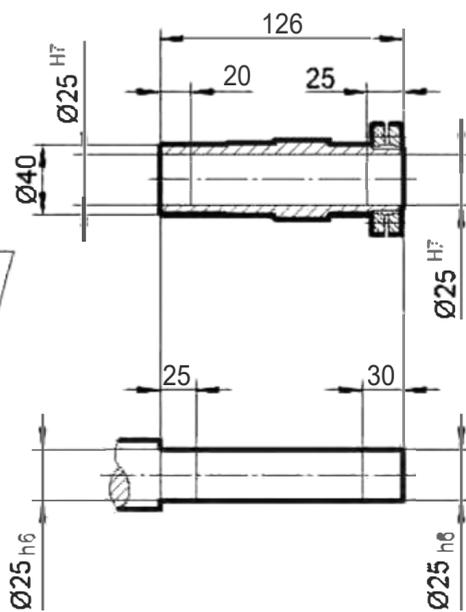
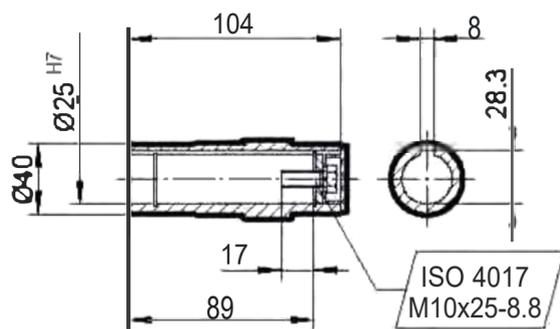
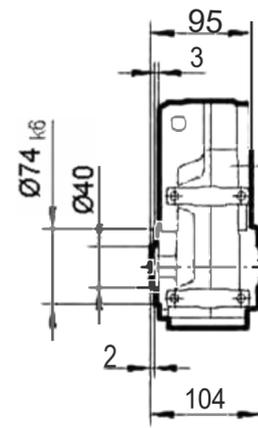


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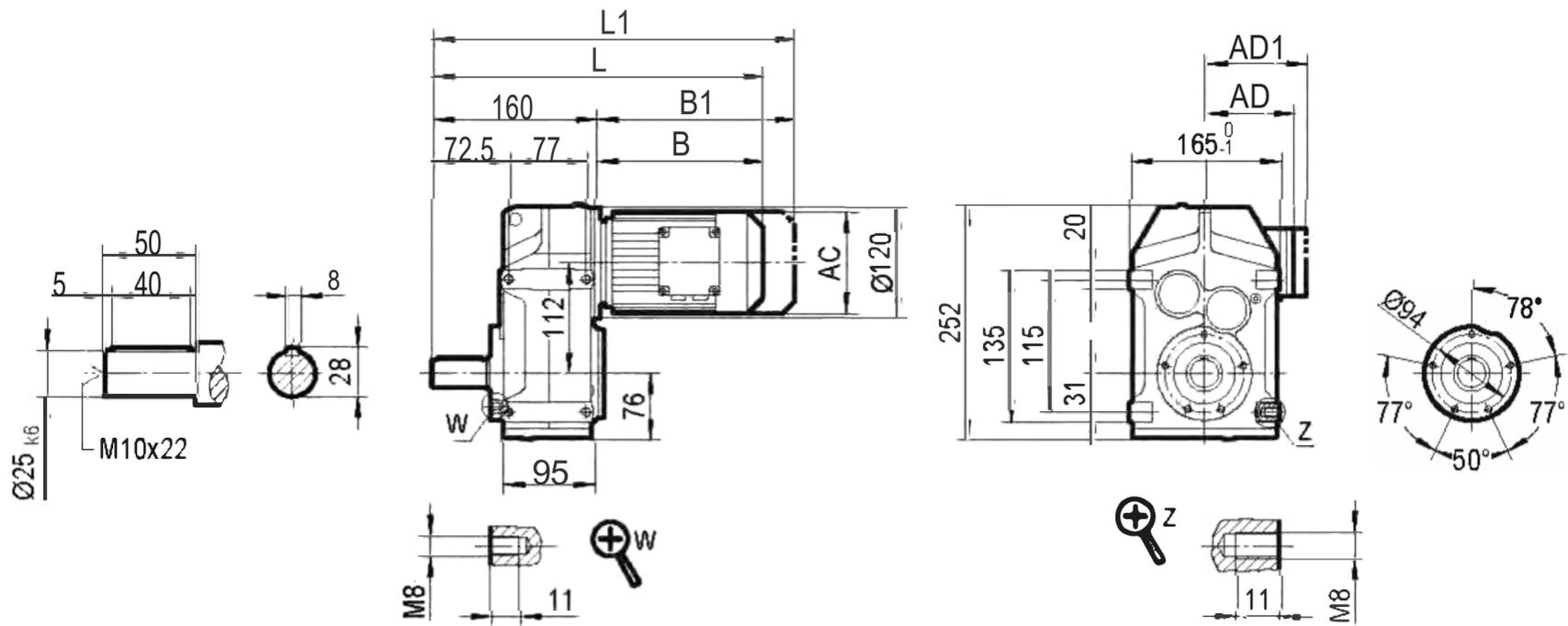
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AC	132	145	145	197					
AD	105	122	122	154					
AD1	105	127	127	161					
B	191	206	256	276					
B1	246	269	319	361					
L	286	301	351	371					
L1	341	364	414	456					

OUTLINE DIMENSION SHEET

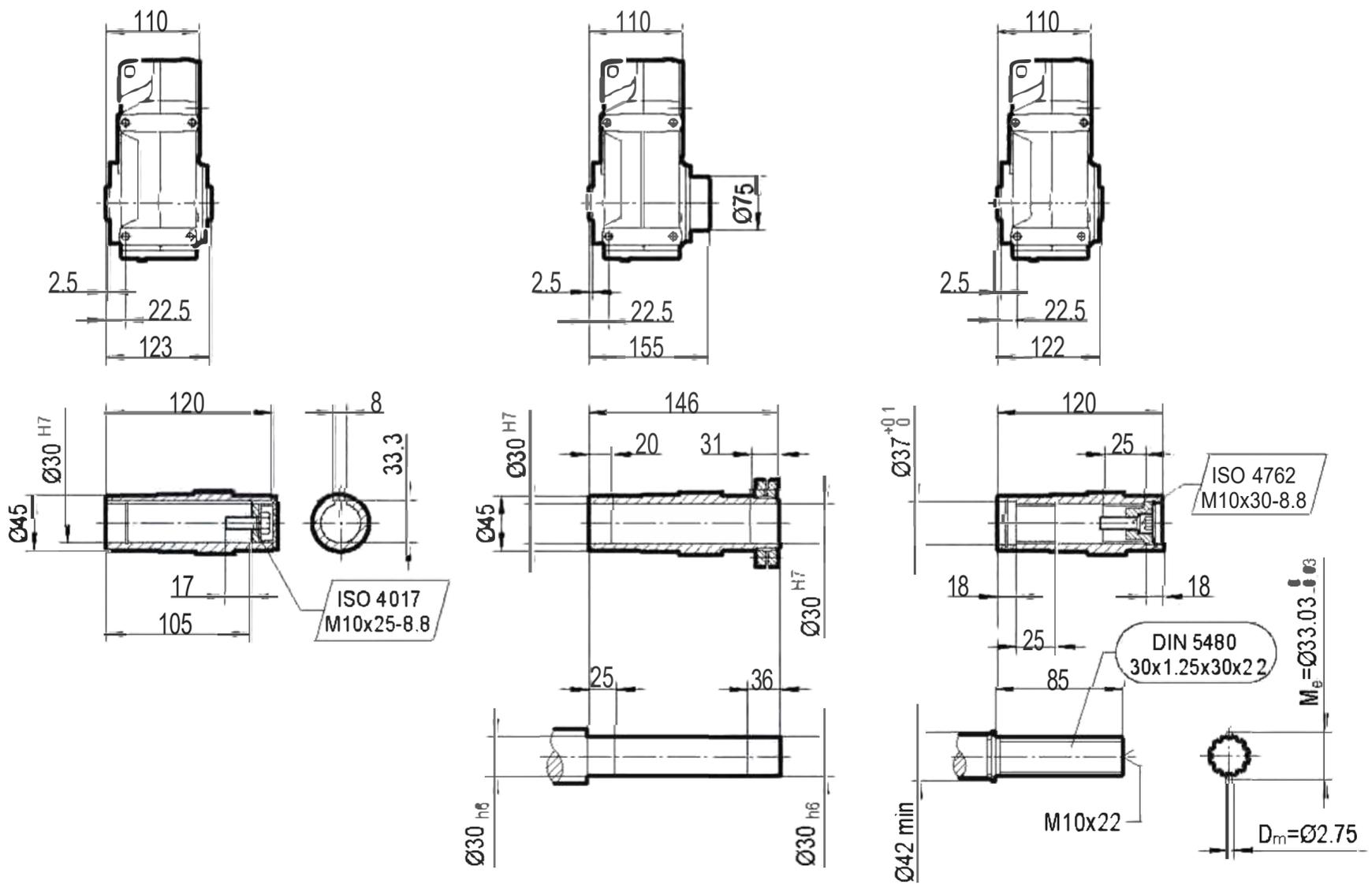
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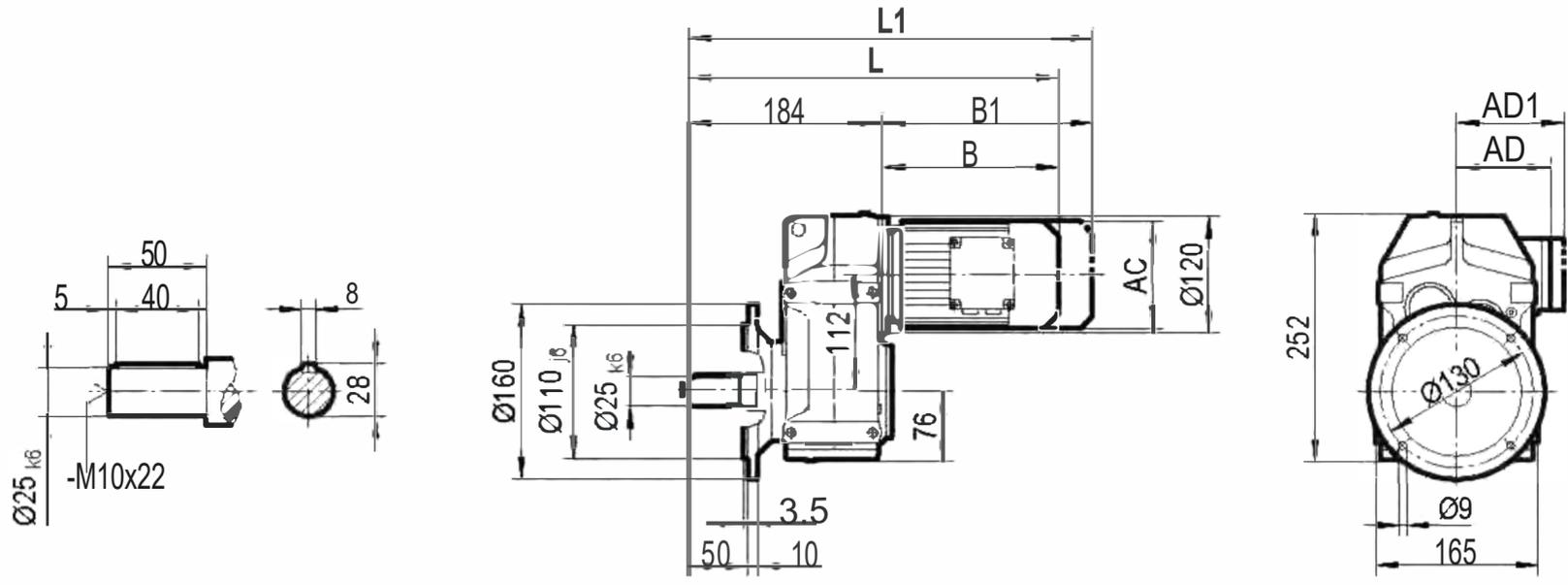
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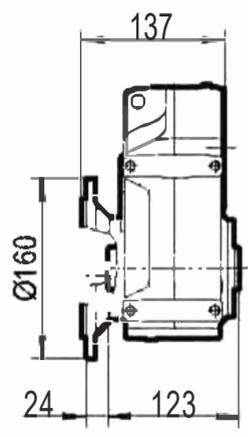
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AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	351	366	416	436	488	518				
L1	406	429	479	521	573	603				

OUTLINE DIMENSION SHEET

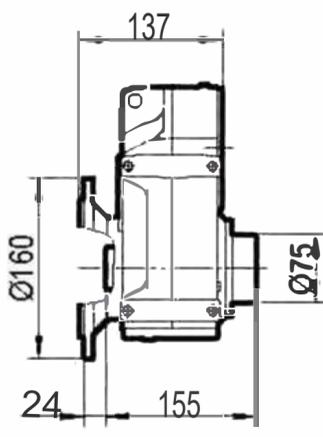
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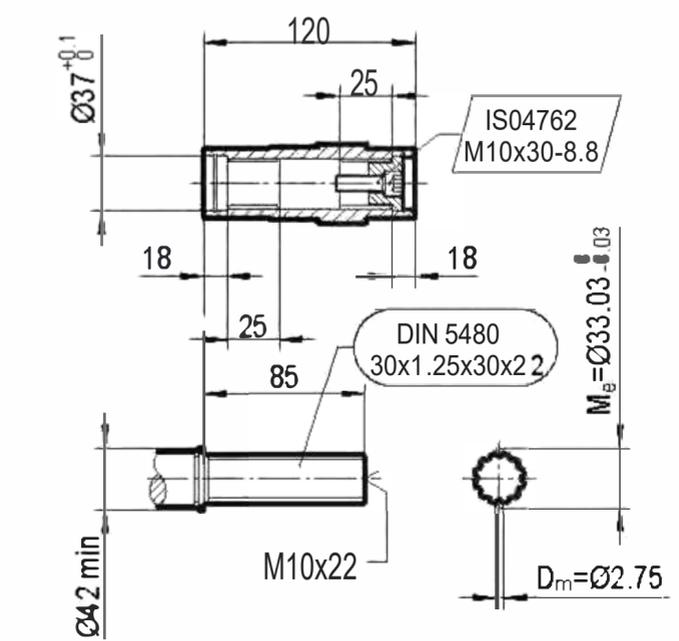
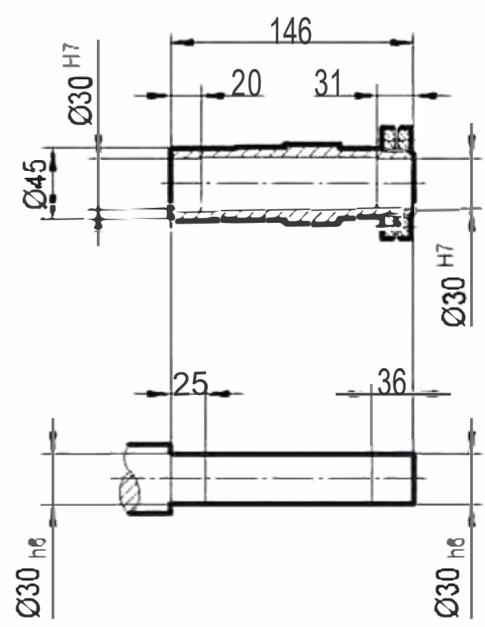
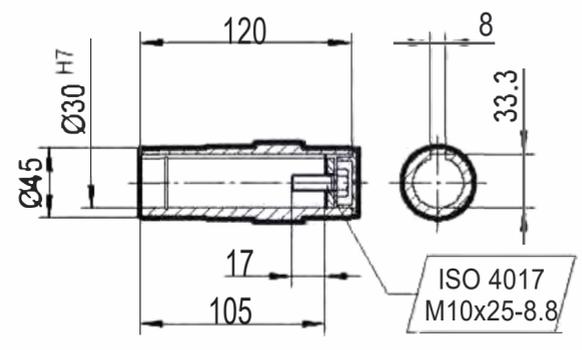
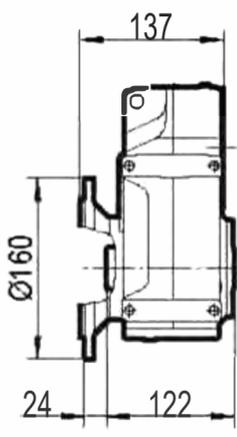
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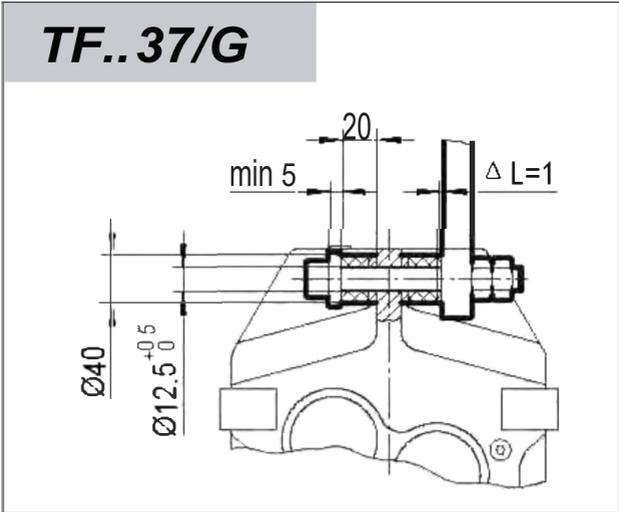
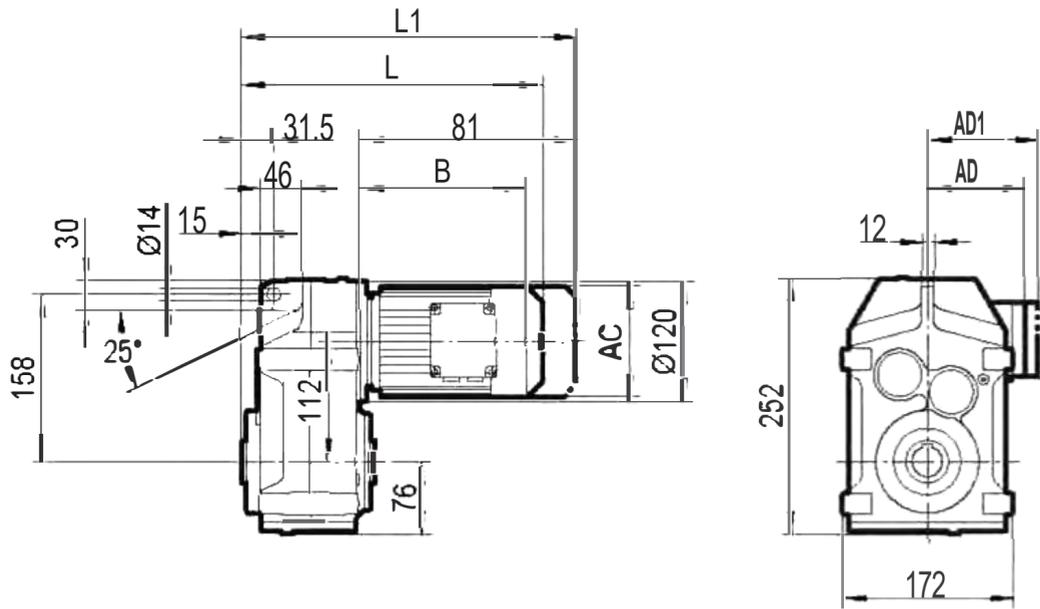
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	63..	71D	80..	90..	100M	100L				
AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	375	390	440	460	512	542				
L1	430	453	503	545	597	627				

OUTLINE DIMENSION SHEET

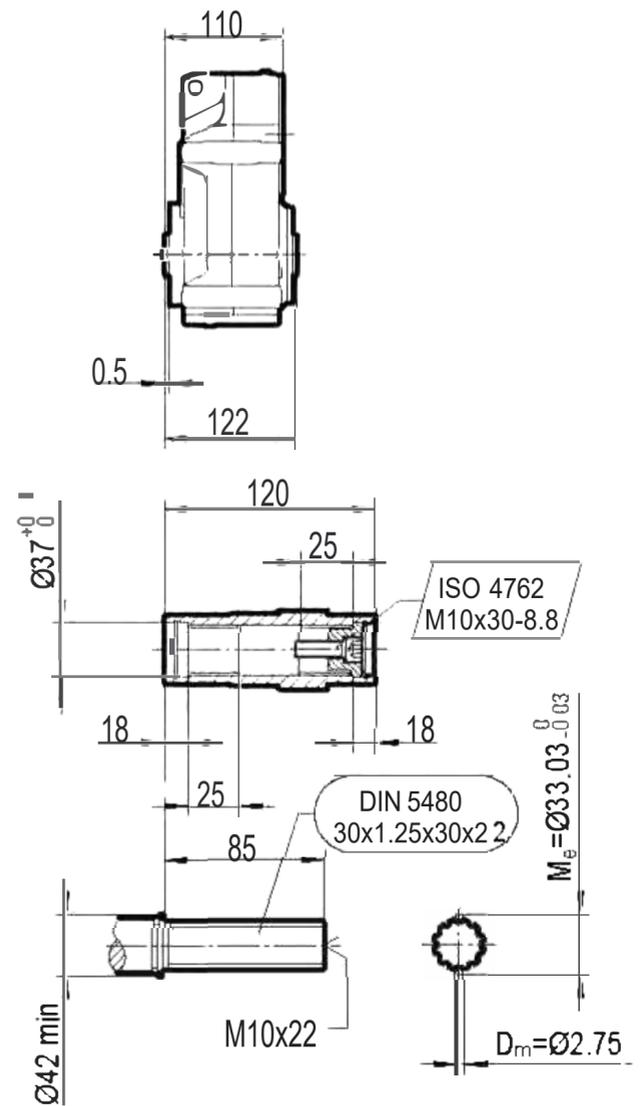
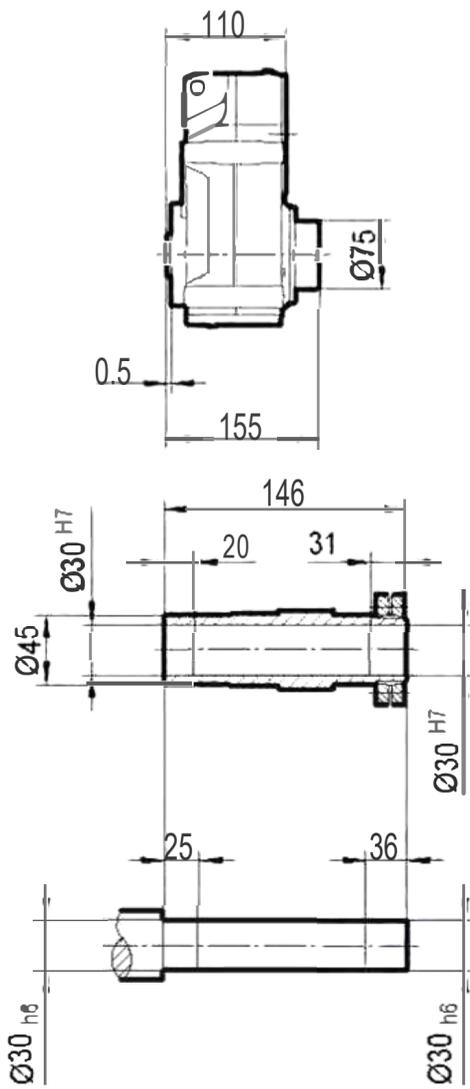
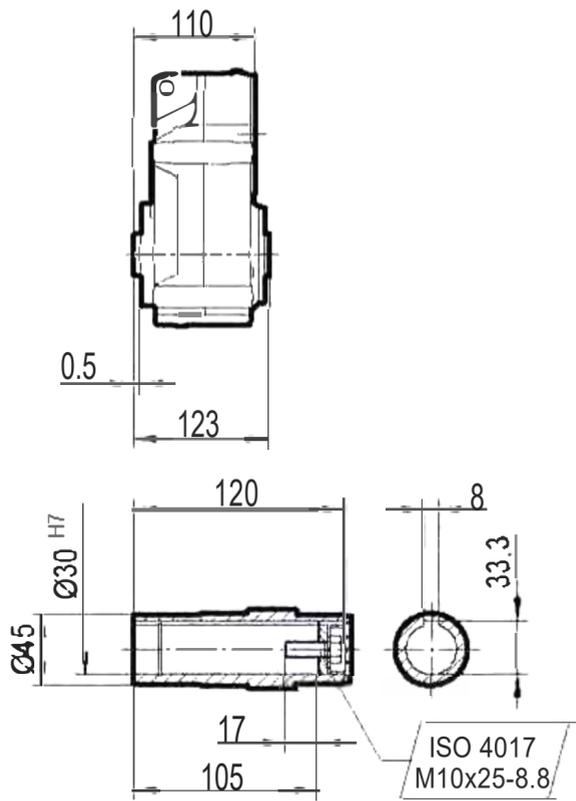
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TFA37..

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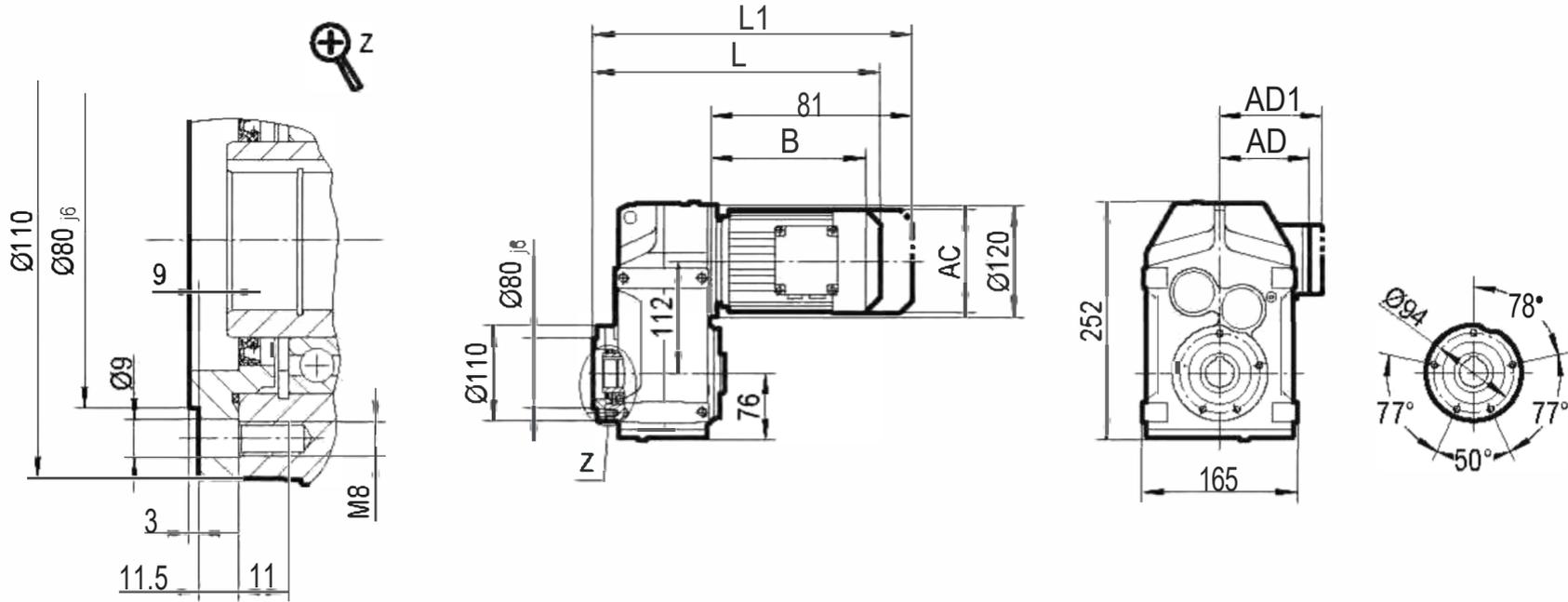
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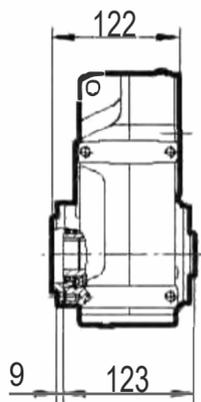
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AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	301	316	366	386	438	468				
L1	356	379	429	471	523	553				

OUTLINE DIMENSION SHEET

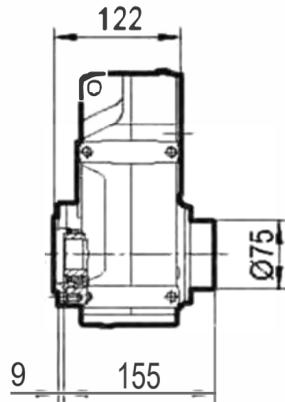
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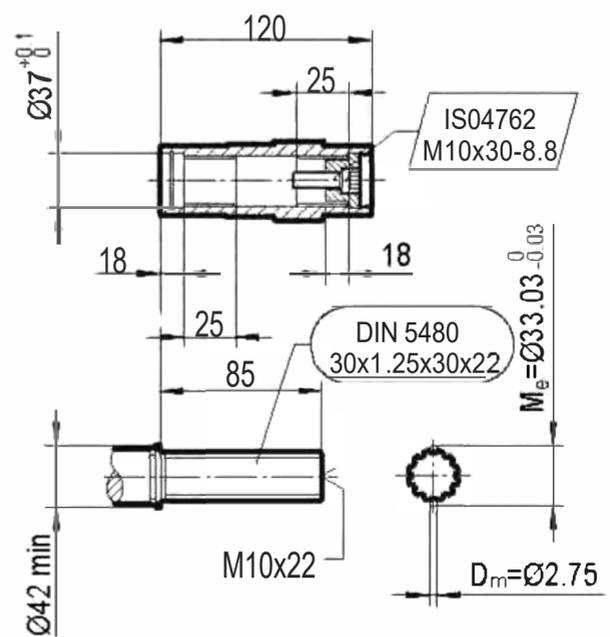
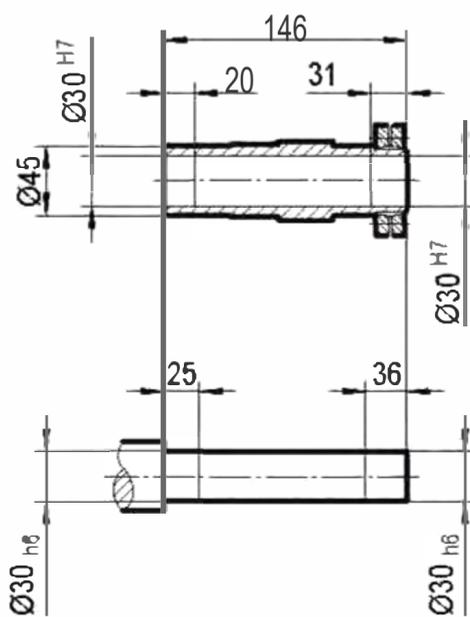
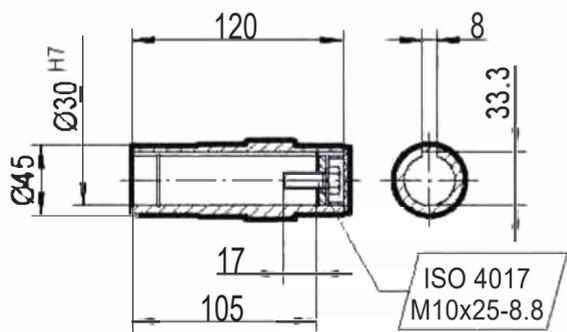
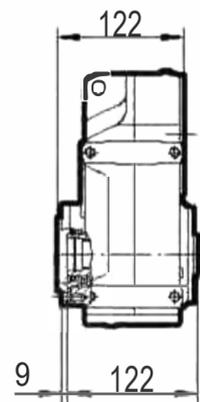
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TFHZ37..



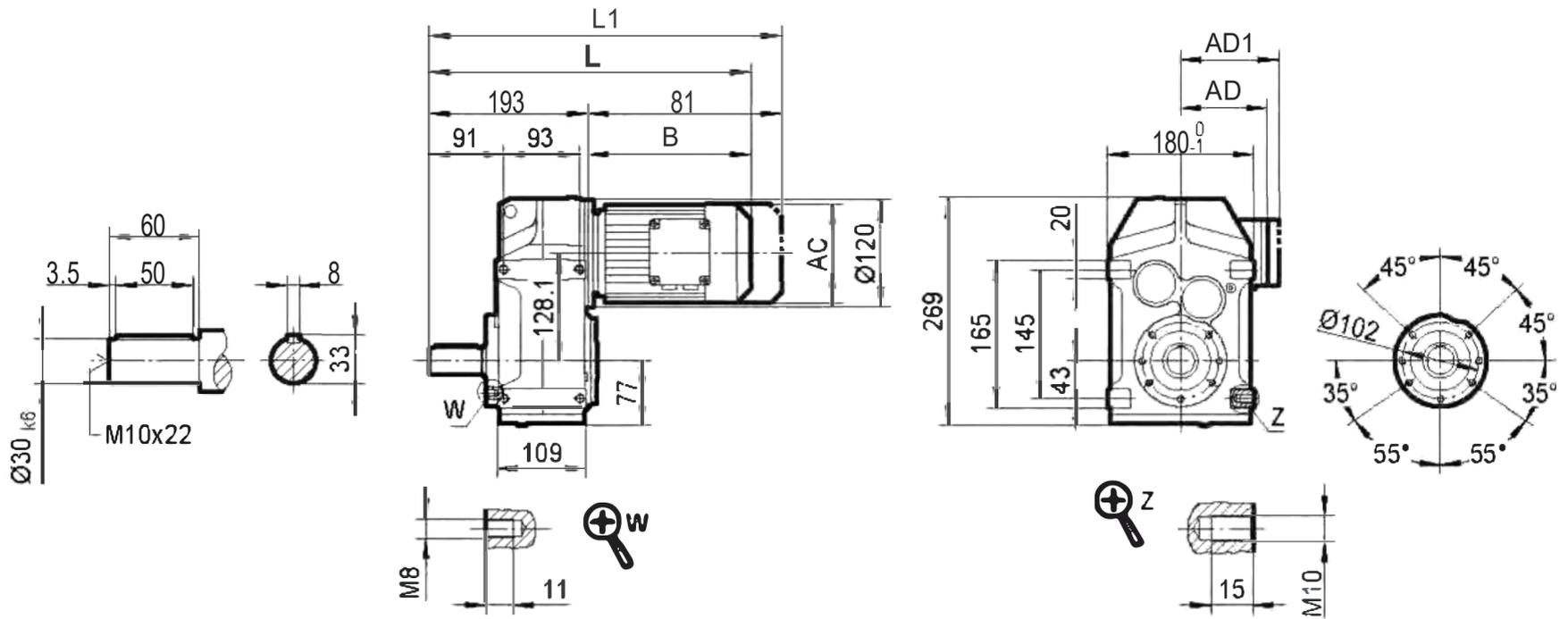
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AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	313	328	378	398	450	480				
L1	368	391	441	483	535	565				

OUTLINE DIMENSION SHEET

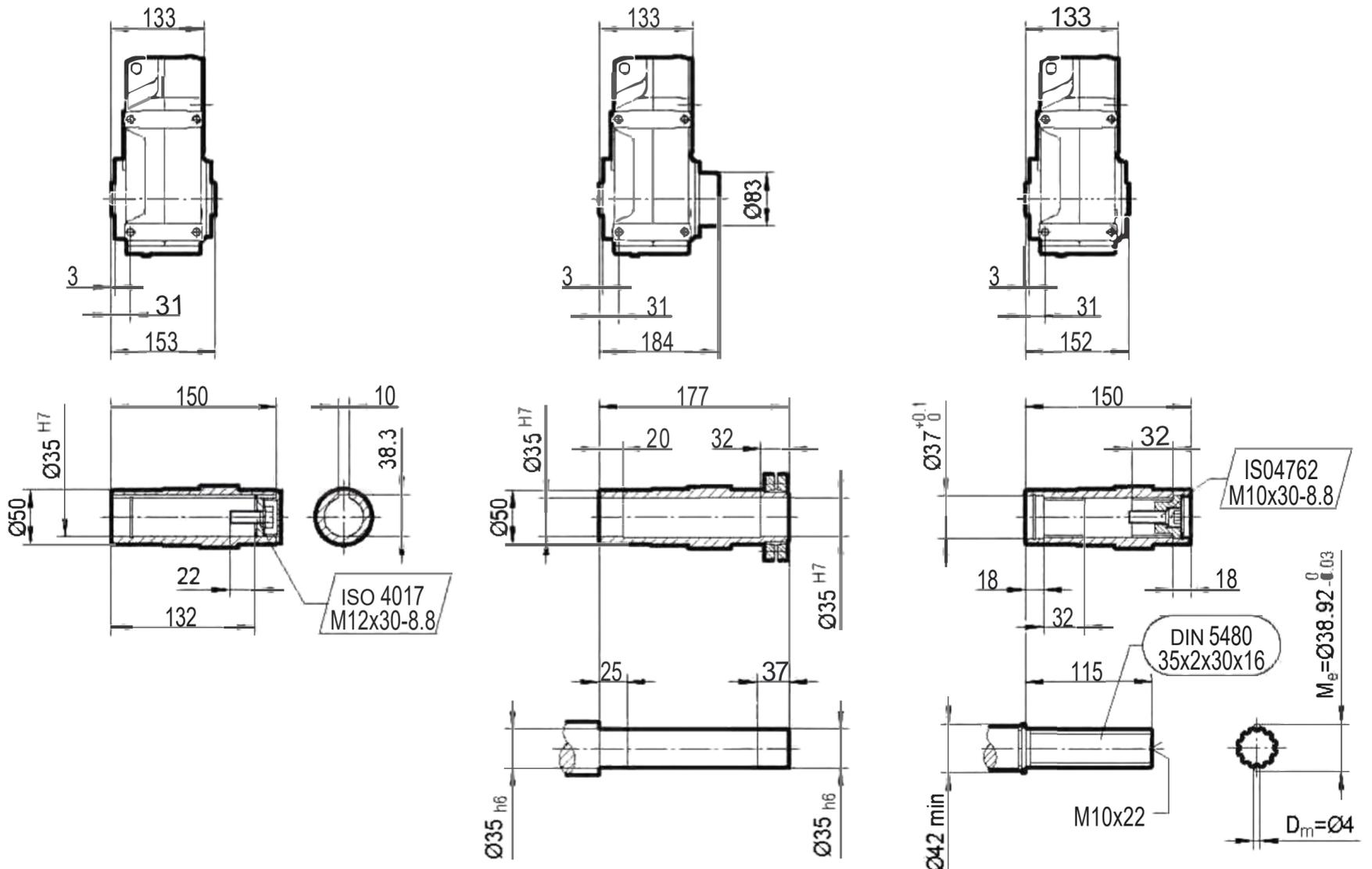
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TFA47B..

TFH47B..

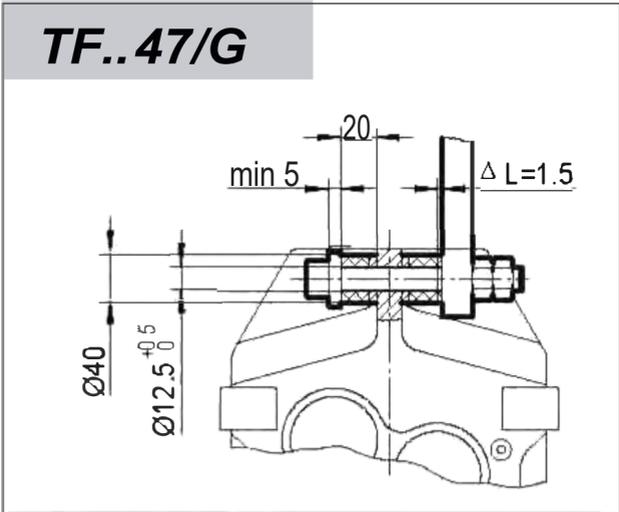
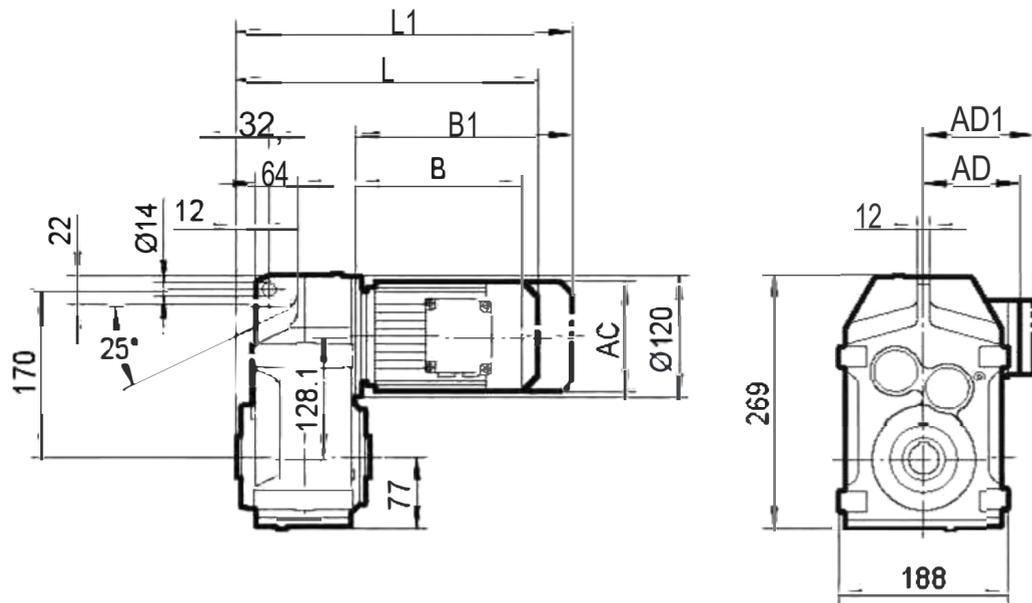
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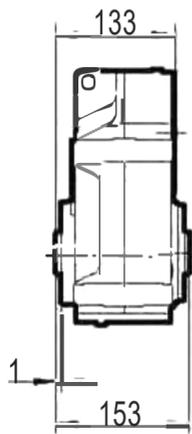
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AC	132	145	145	197	197	197					
AD	105	122	122	154	166	166					
AD1	105	127	127	161	166	166					
B	191	206	256	276	328	358					
B1	246	269	319	361	413	443					
L	384	399	449	469	521	551					
L1	439	462	512	554	606	636					

OUTLINE DIMENSION SHEET

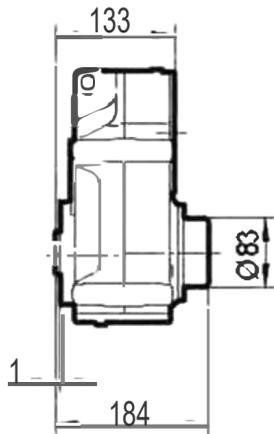
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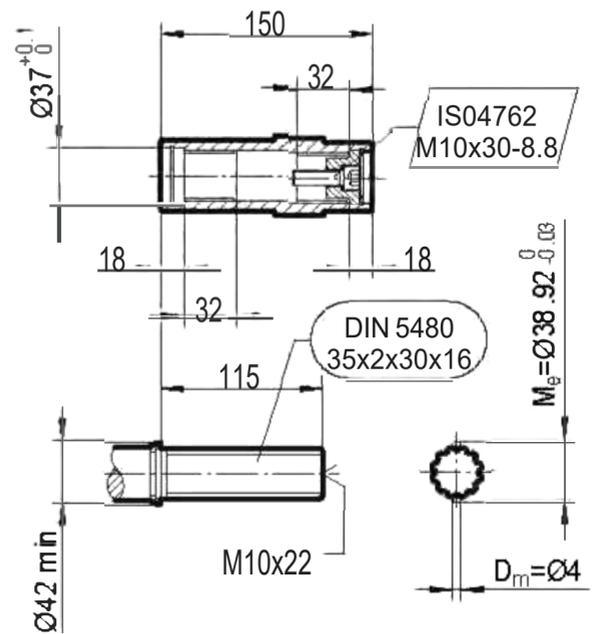
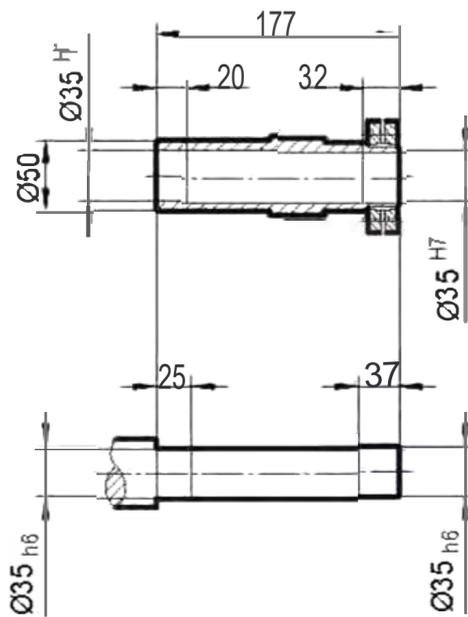
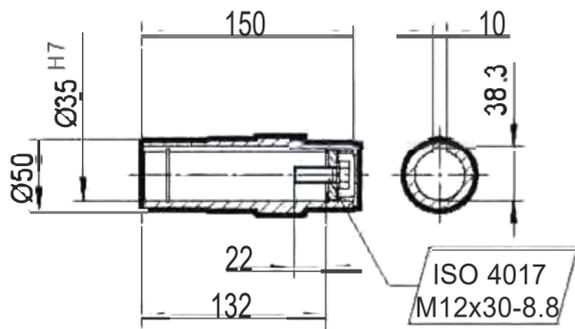
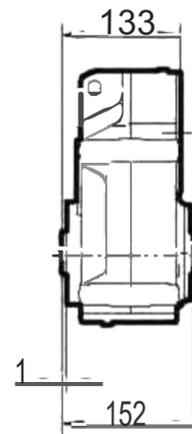
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TFH47..



TFV47..

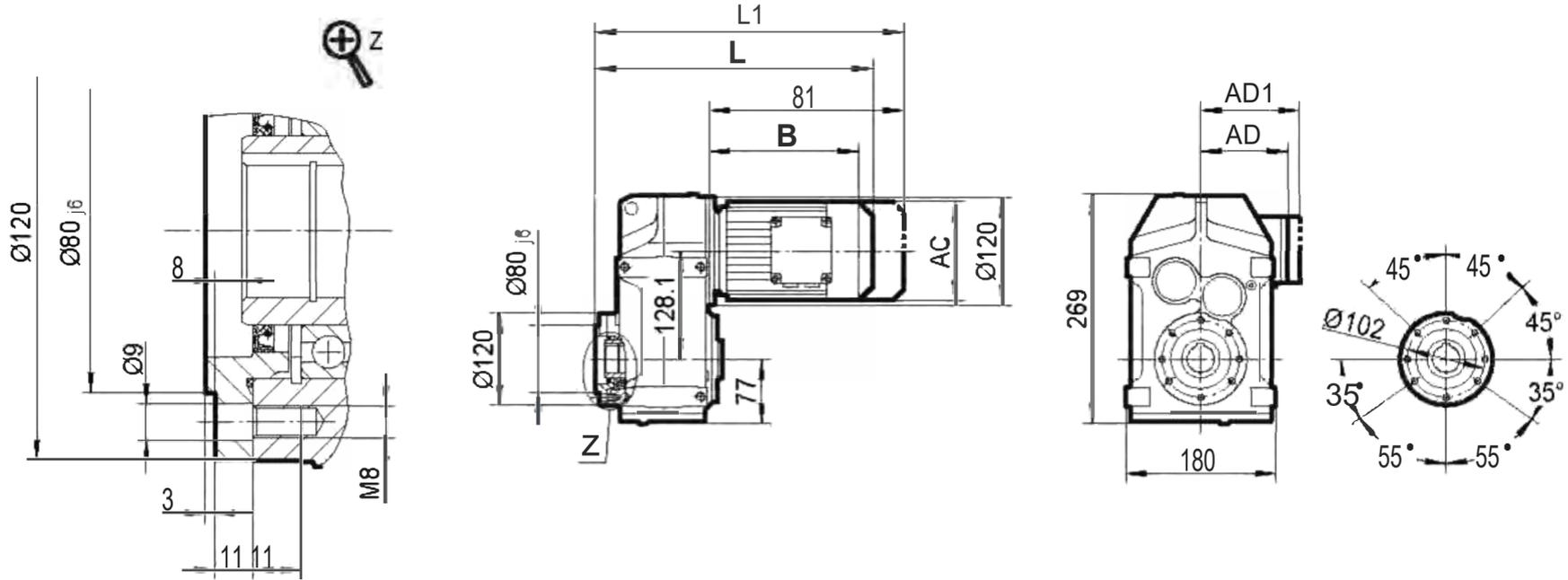


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AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	324	339	389	409	461	491				
L1	379	402	452	494	546	576				

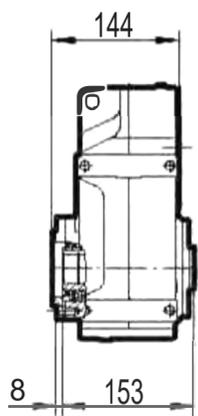


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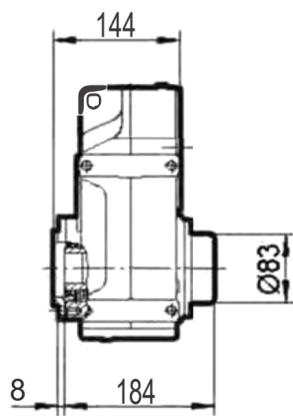
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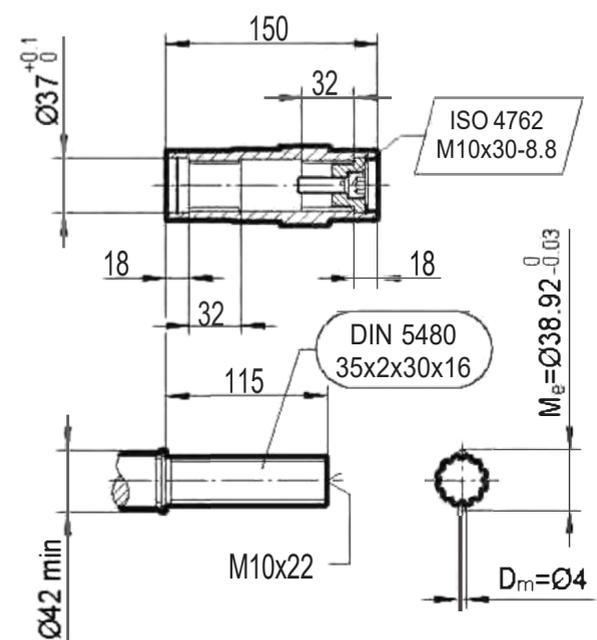
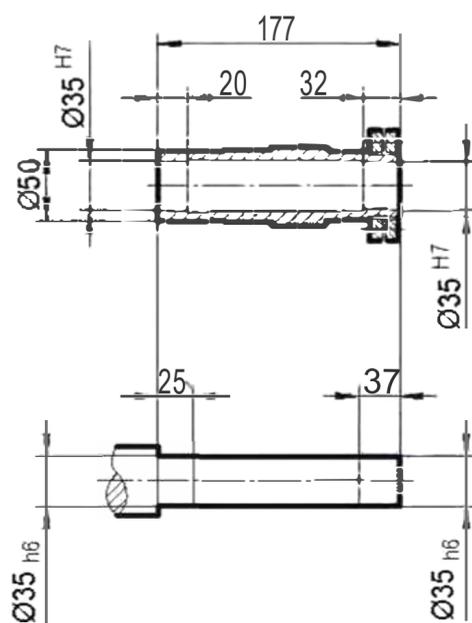
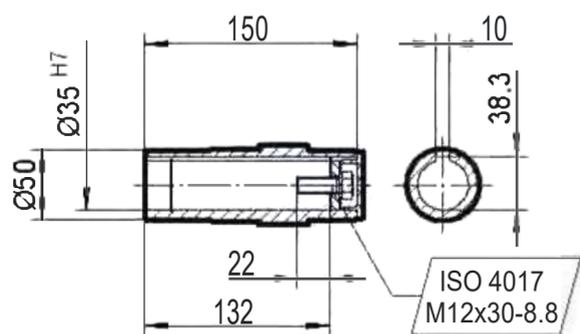
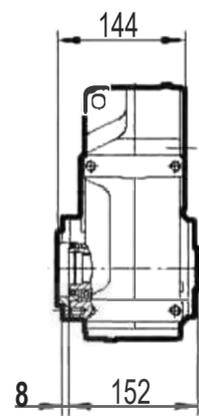
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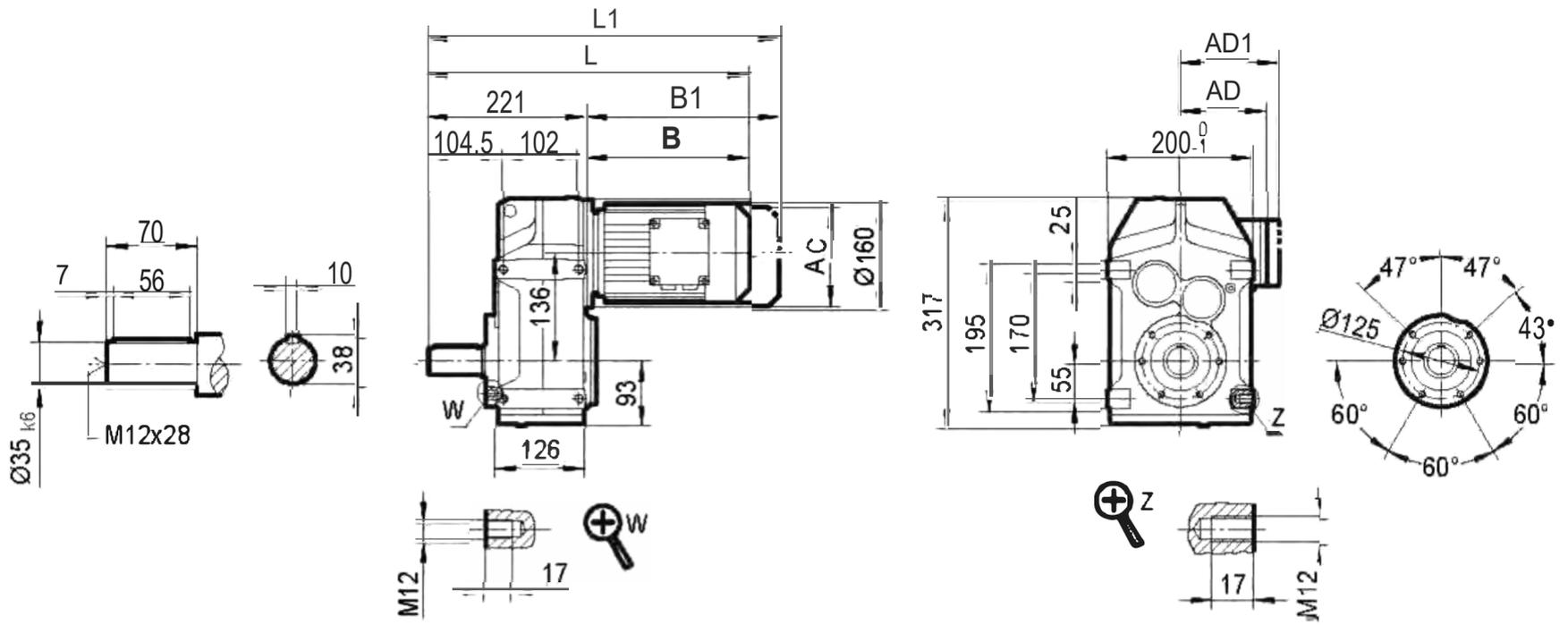
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AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	191	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	335	350	400	420	472	502				
L1	390	413	463	505	557	587				

OUTLINE DIMENSION SHEET

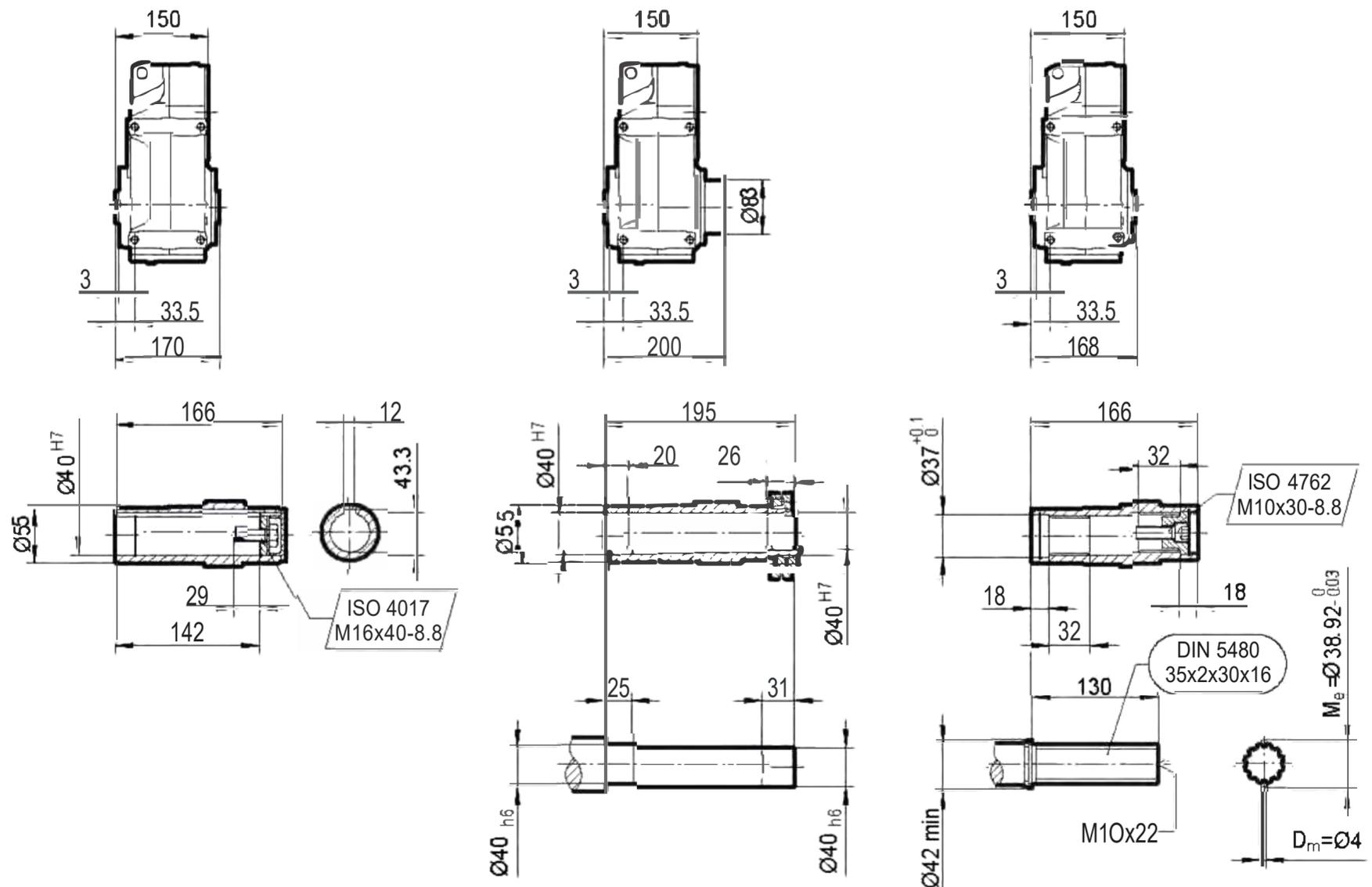
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TFA57B..

TFH57B..

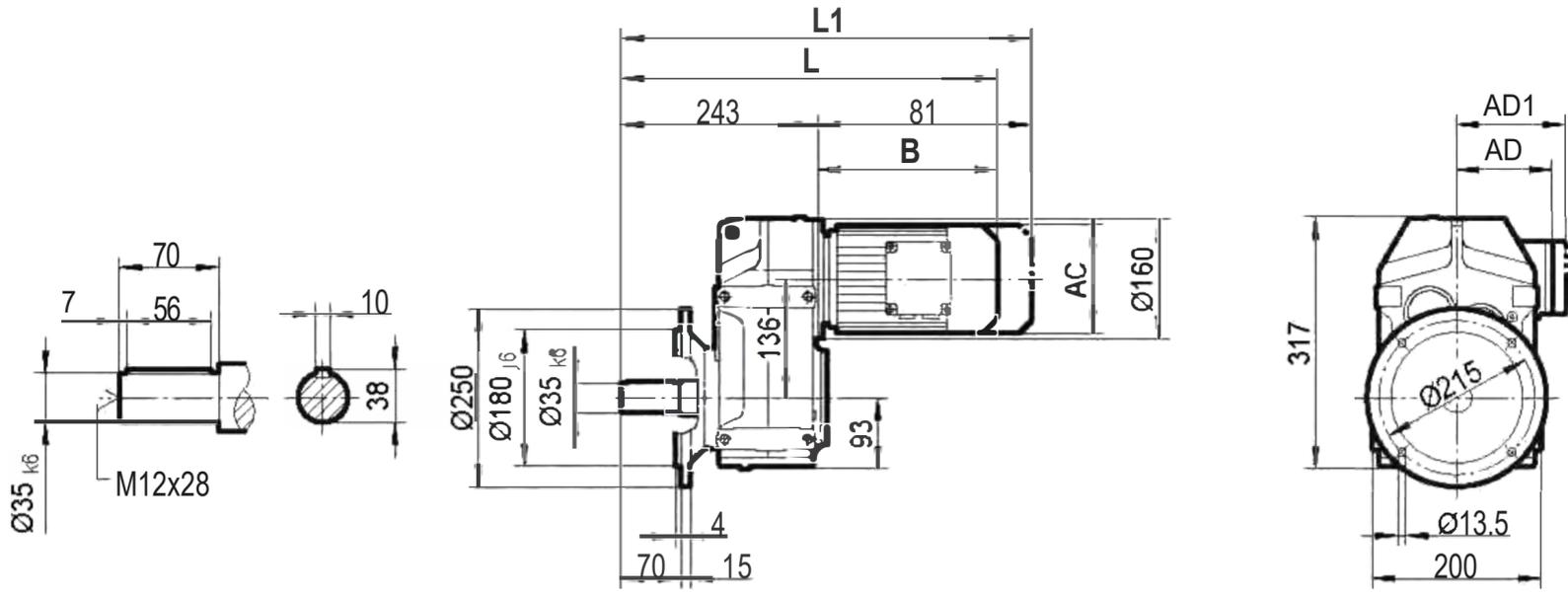
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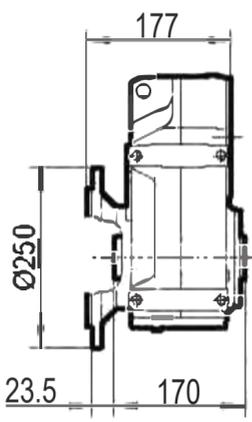
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AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	406	420	470	490	540	570	575	623			
L1	461	484	534	575	625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

OUTLINE DIMENSION SHEET

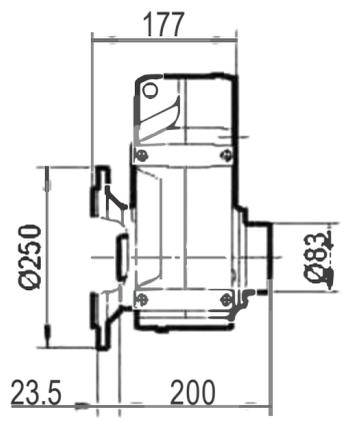
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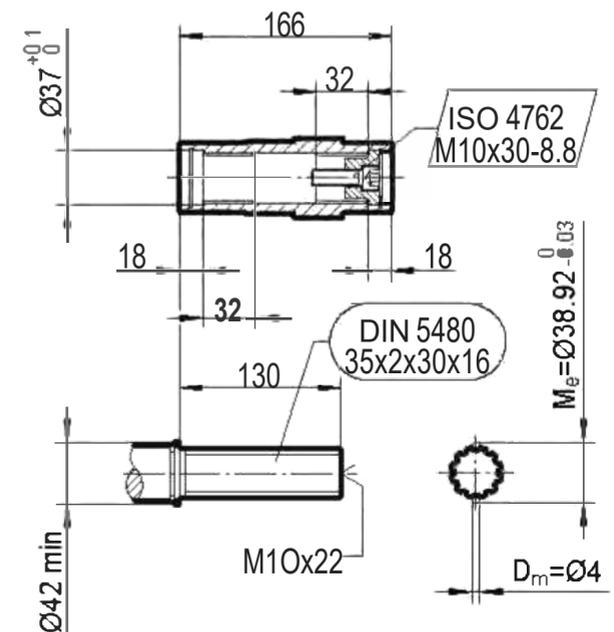
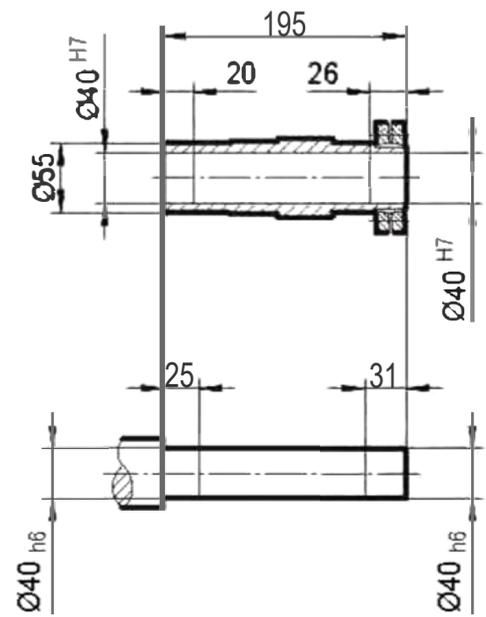
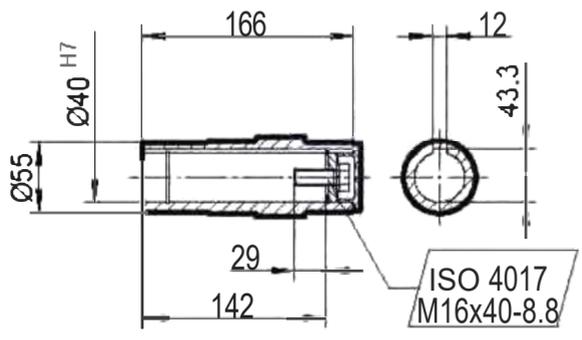
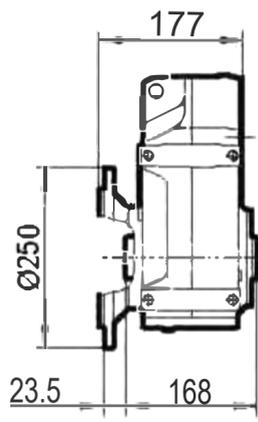
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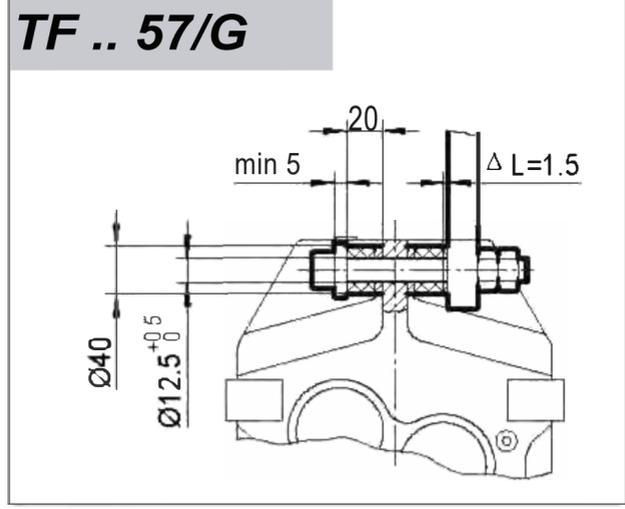
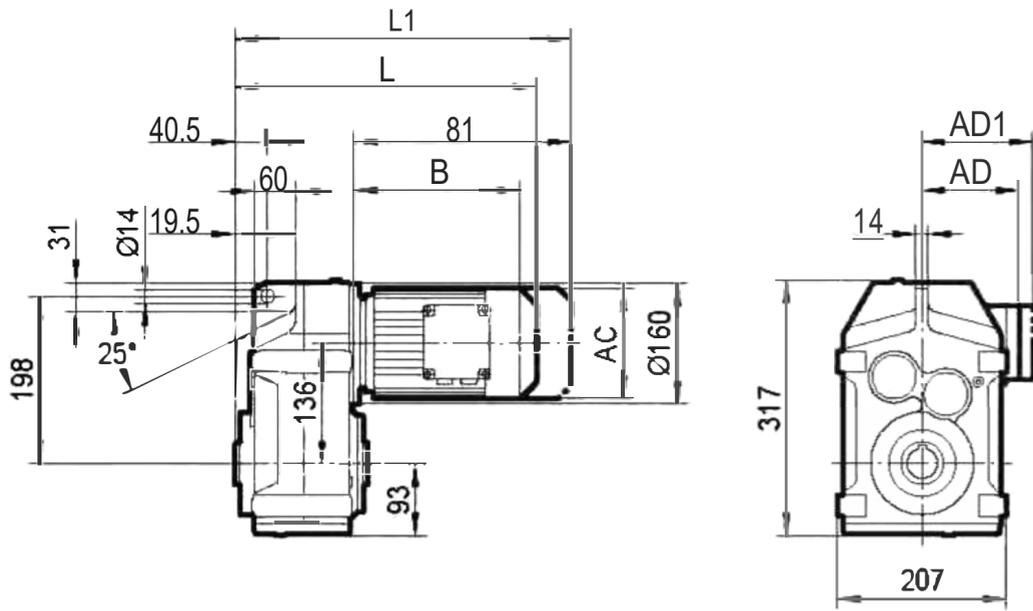
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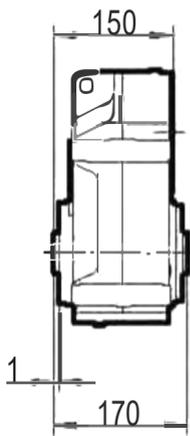
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AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	428	442	492	512	562	592	597	645			
L1	483	506	556	597	647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

OUTLINE DIMENSION SHEET

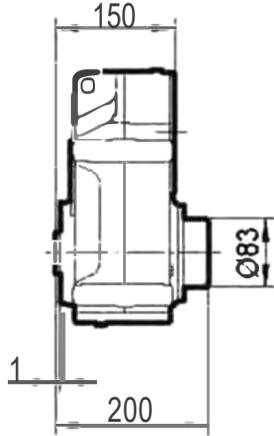
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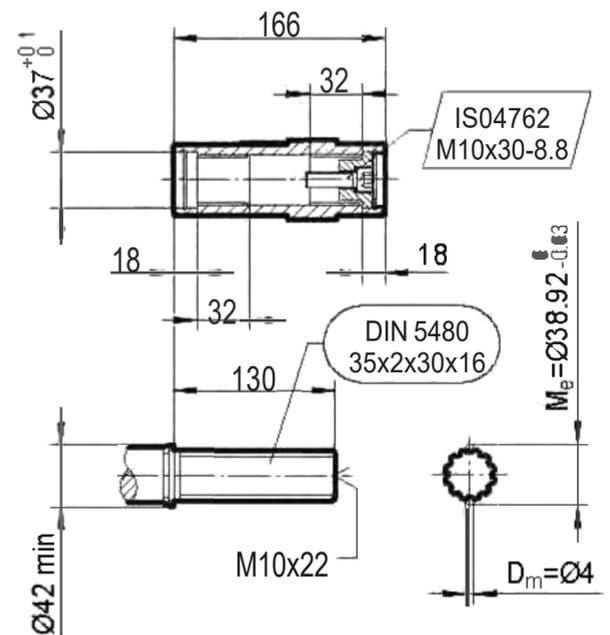
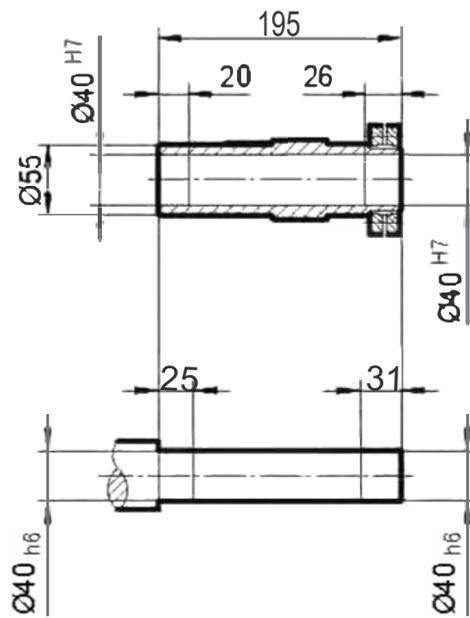
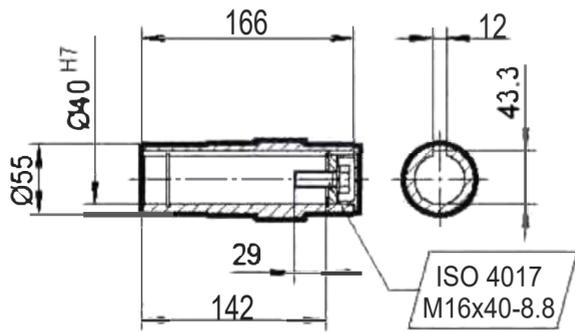
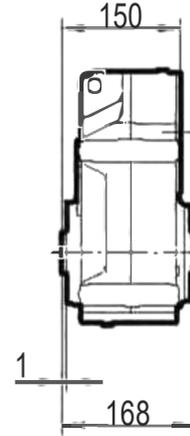
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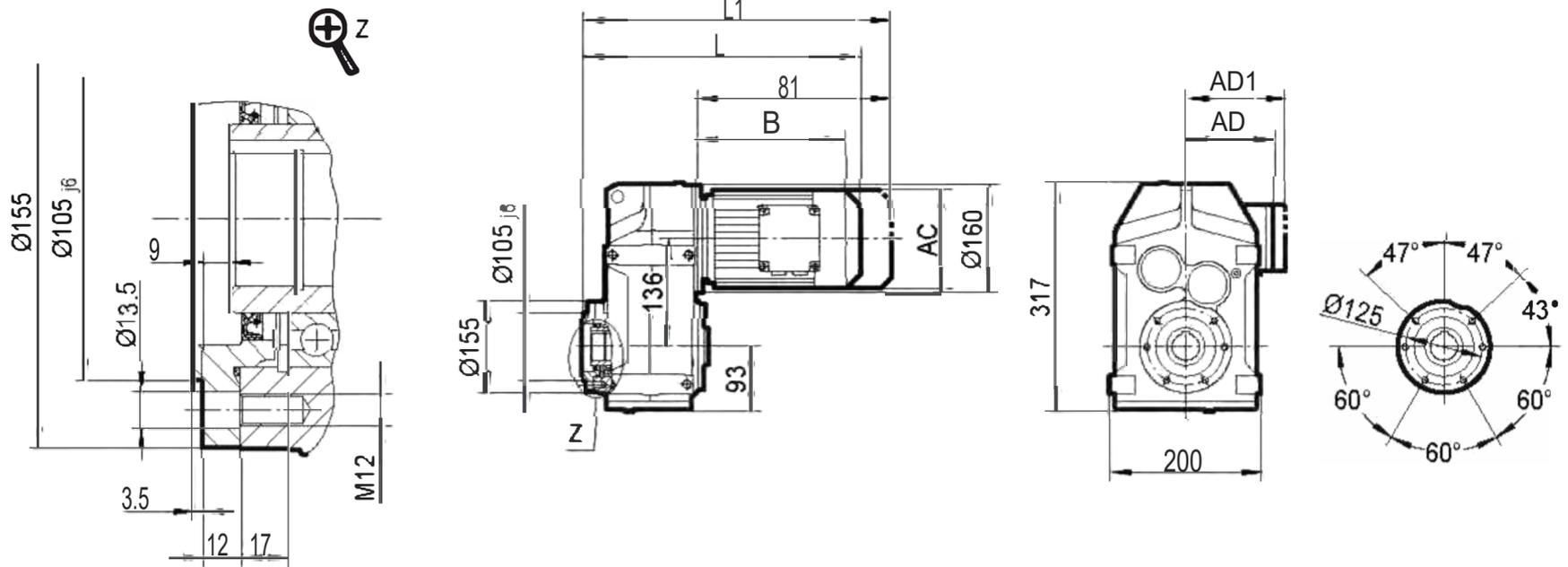
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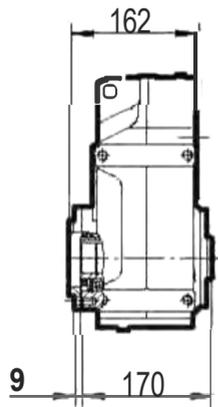
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AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
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OUTLINE DIMENSION SHEET

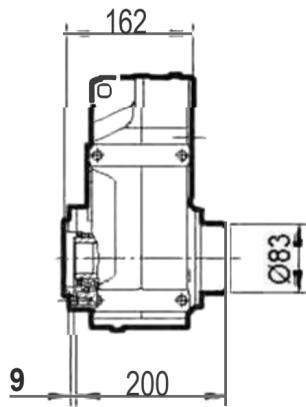
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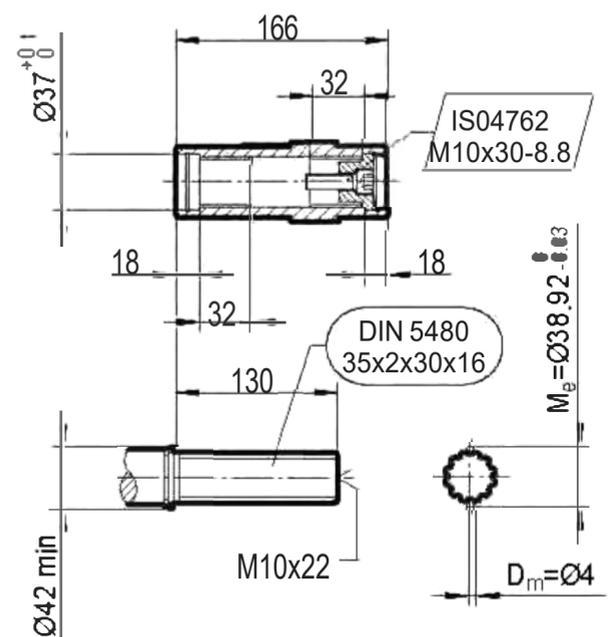
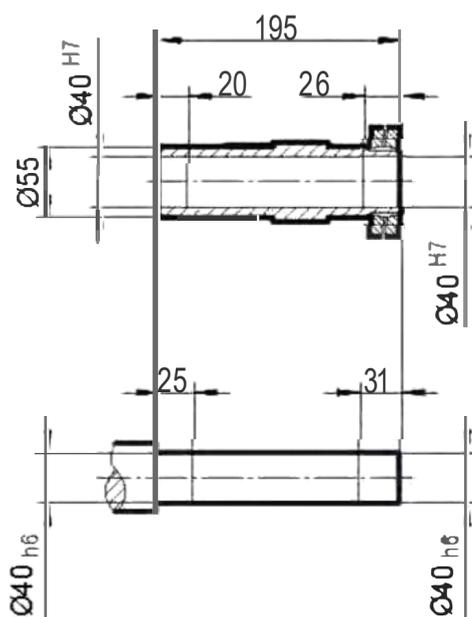
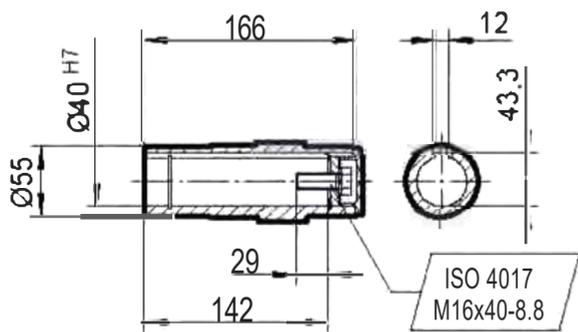
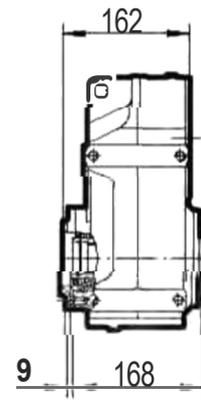
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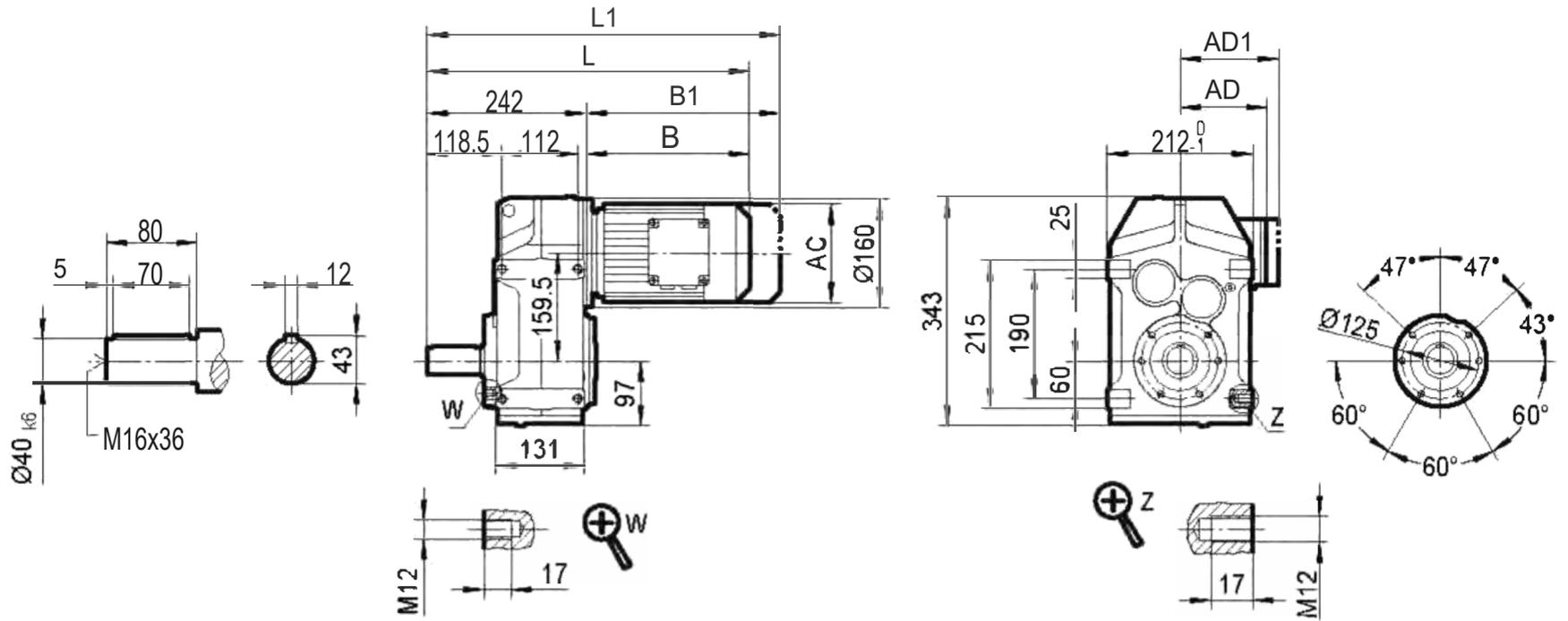
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AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
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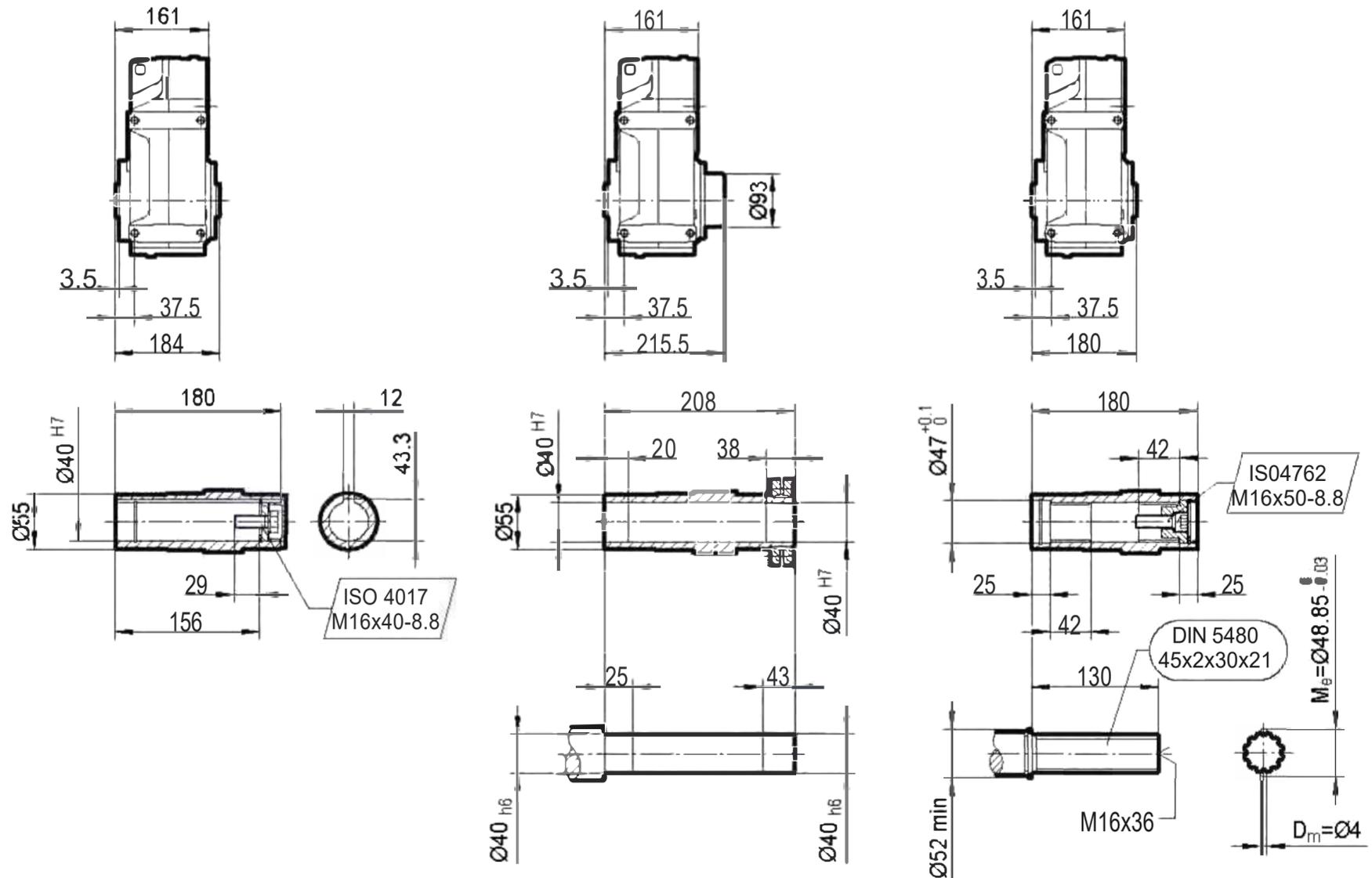
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TFA67B..

TFH67B..

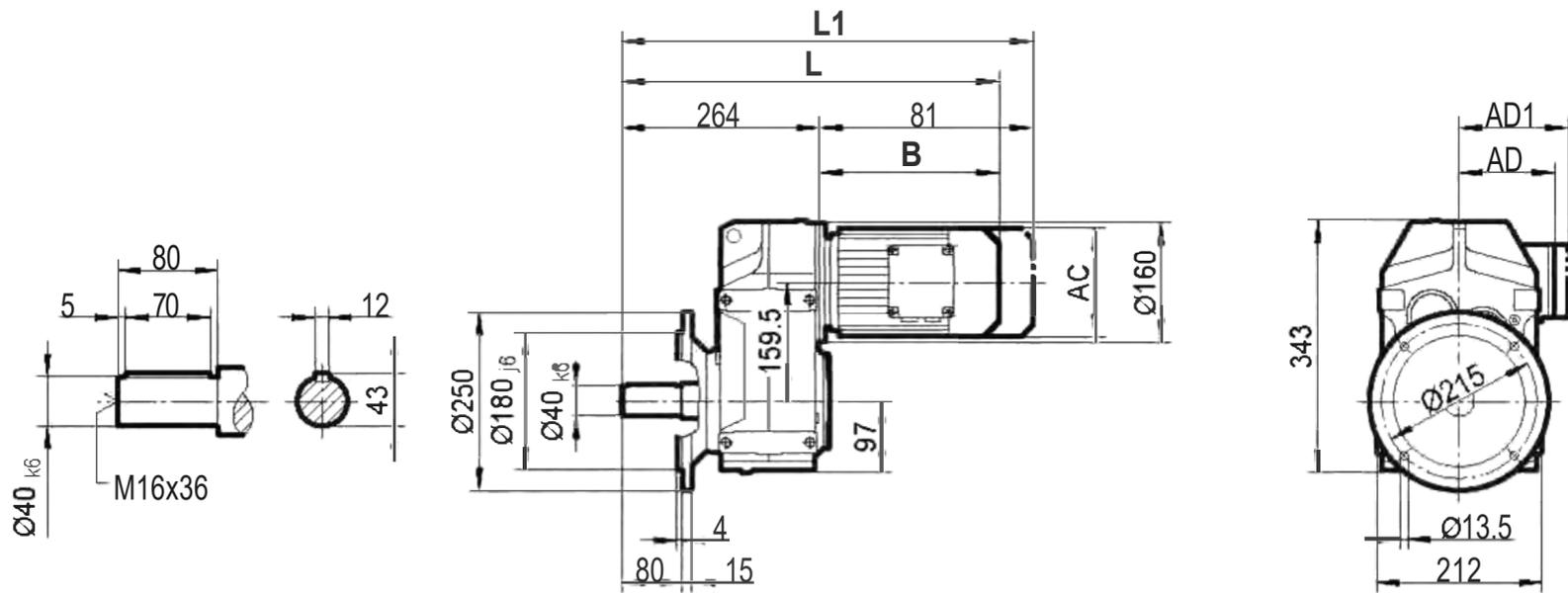
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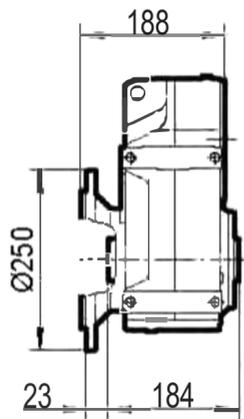
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AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
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OUTLINE DIMENSION SHEET

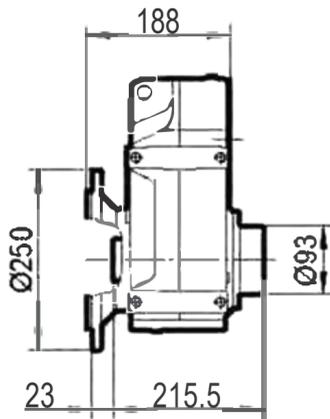
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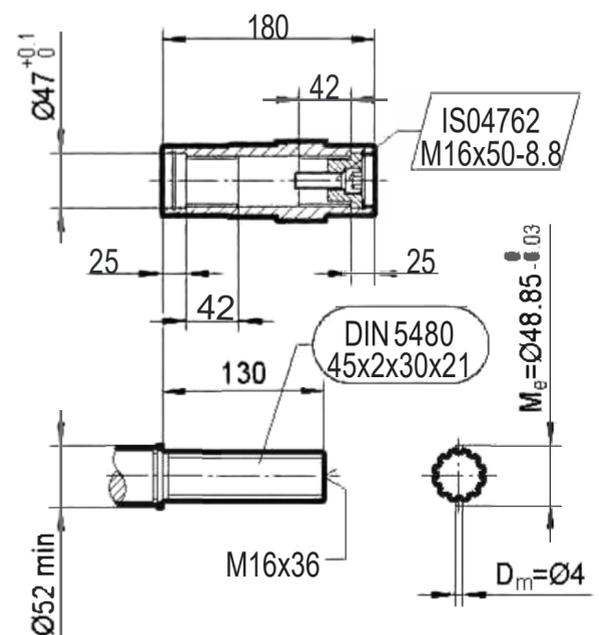
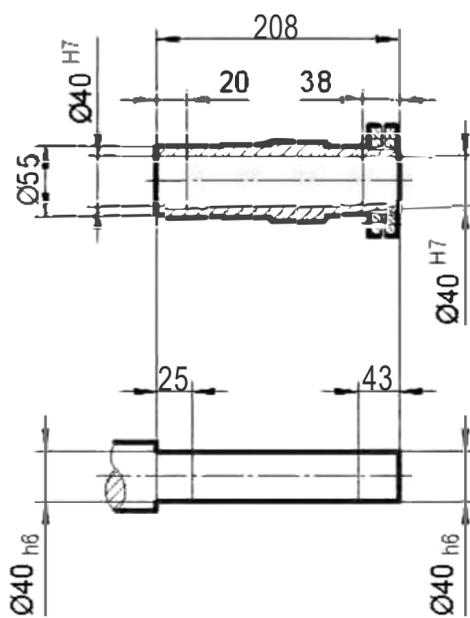
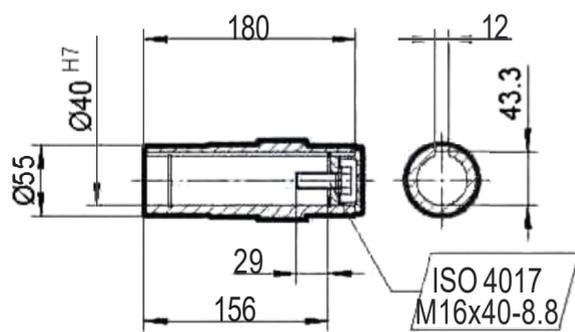
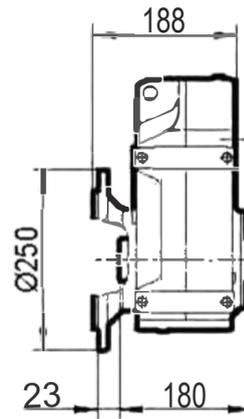
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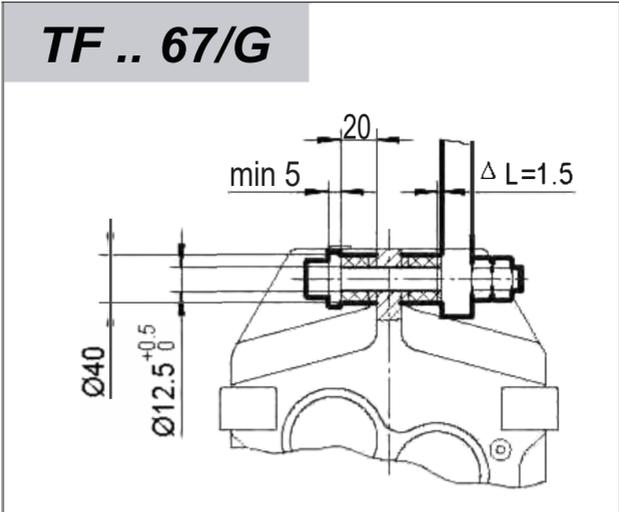
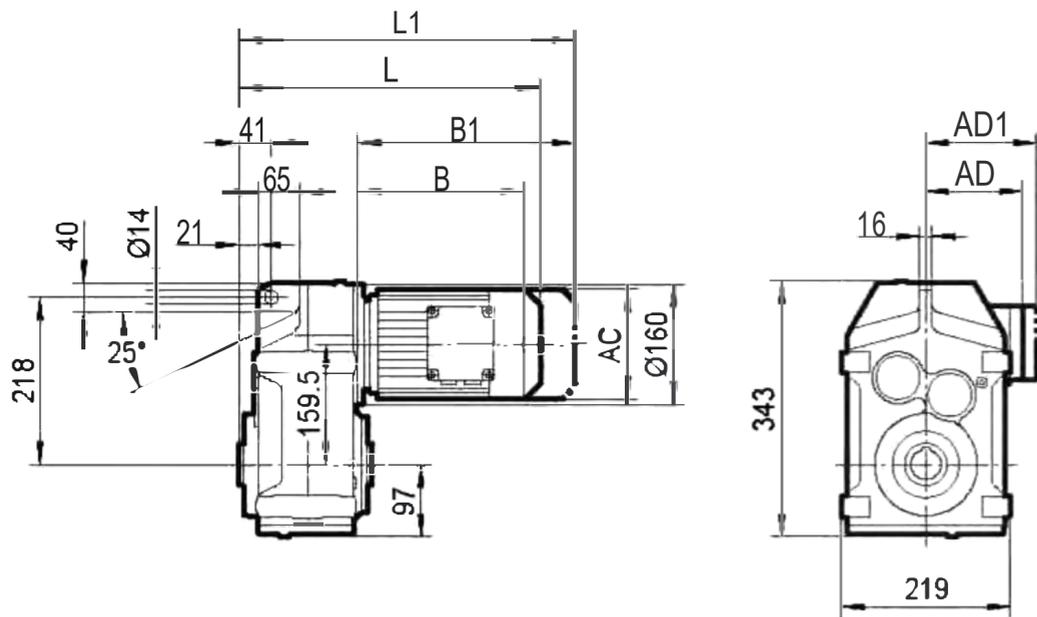
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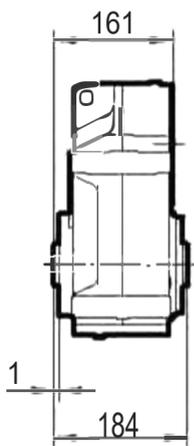
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AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	449	463	513	533	583	613	618	666			
L1	504	527	577	618	668	698	698	746			

OUTLINE DIMENSION SHEET

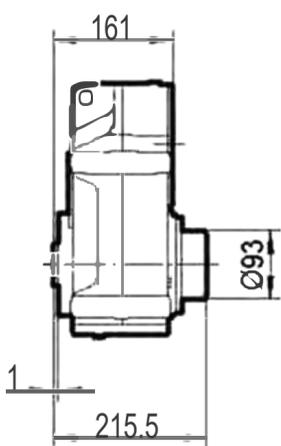
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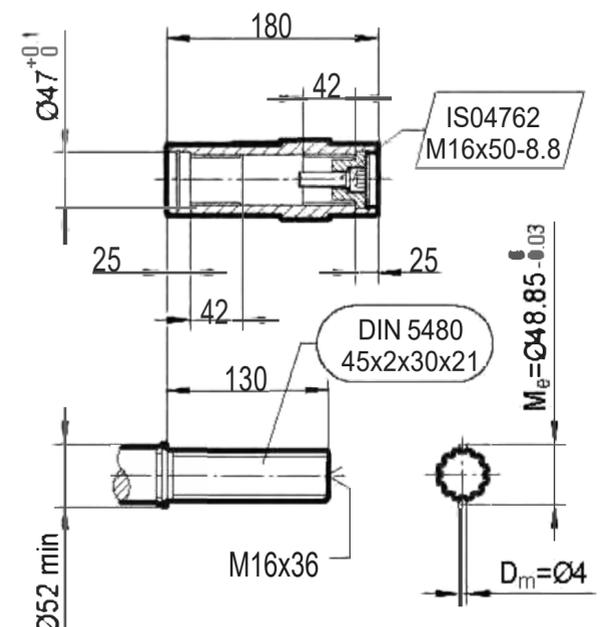
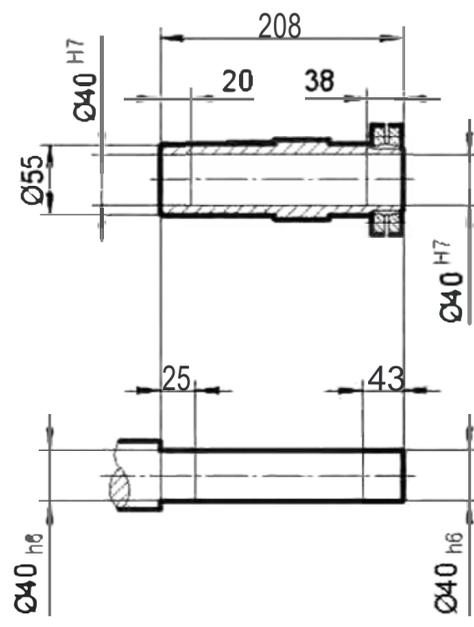
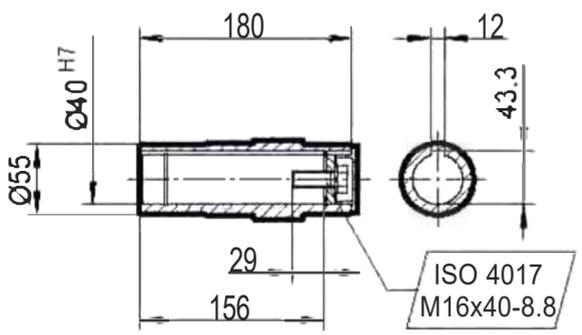
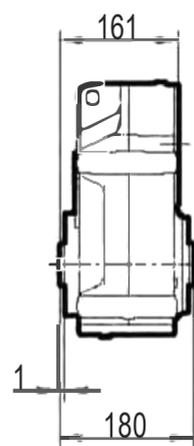
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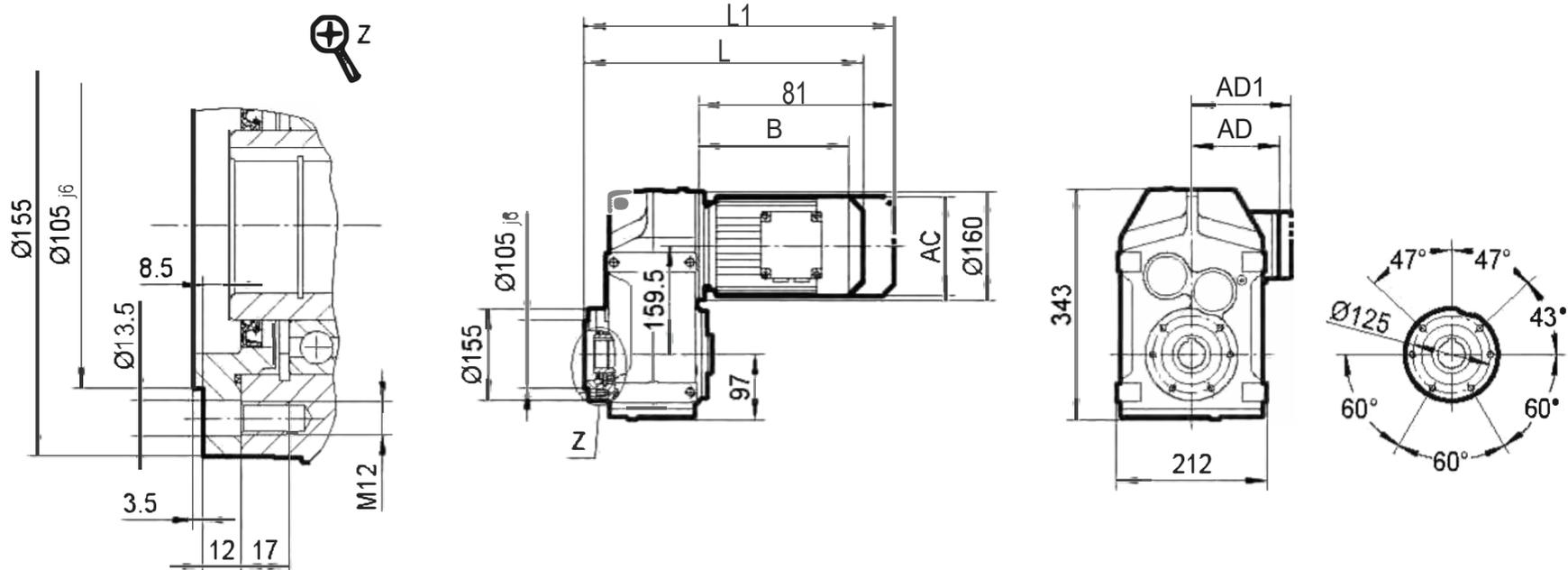
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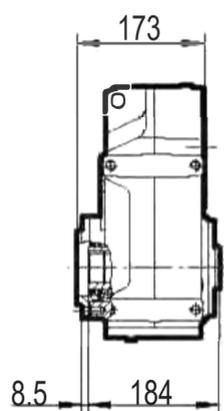
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AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
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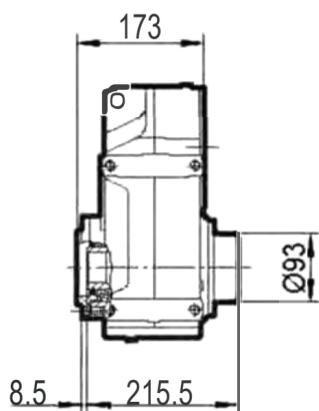
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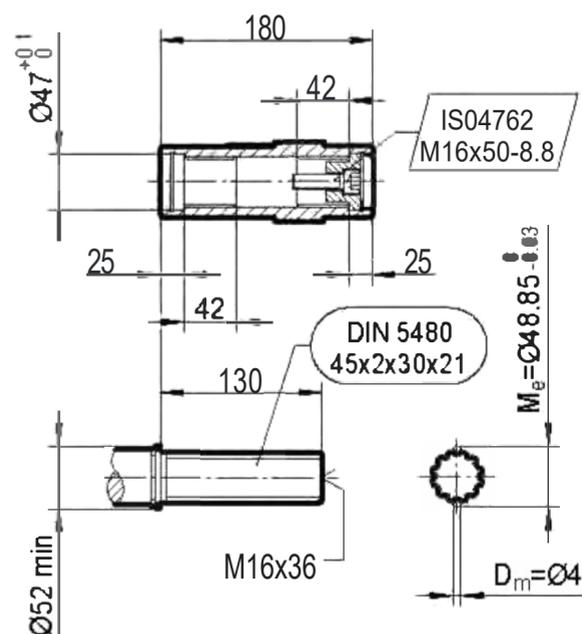
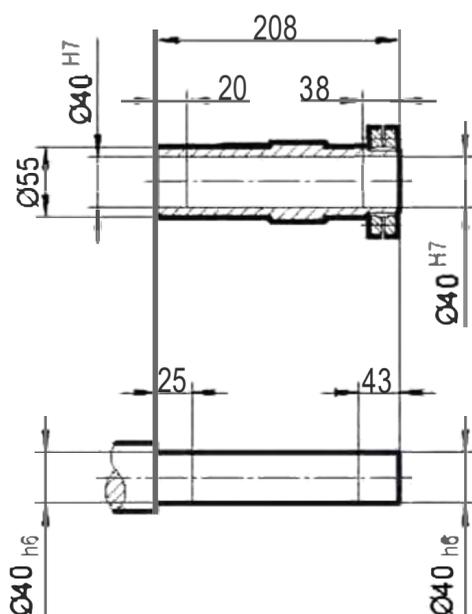
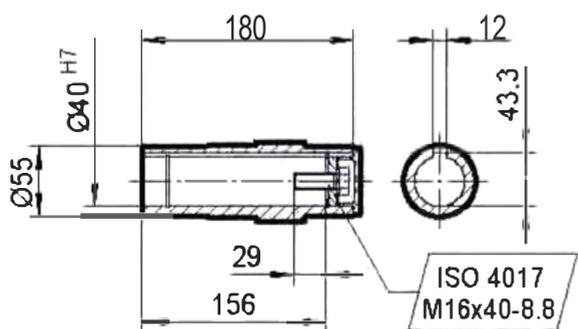
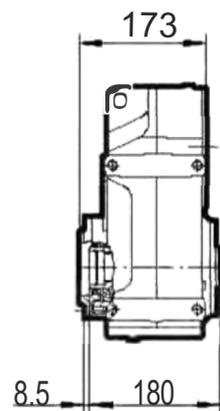
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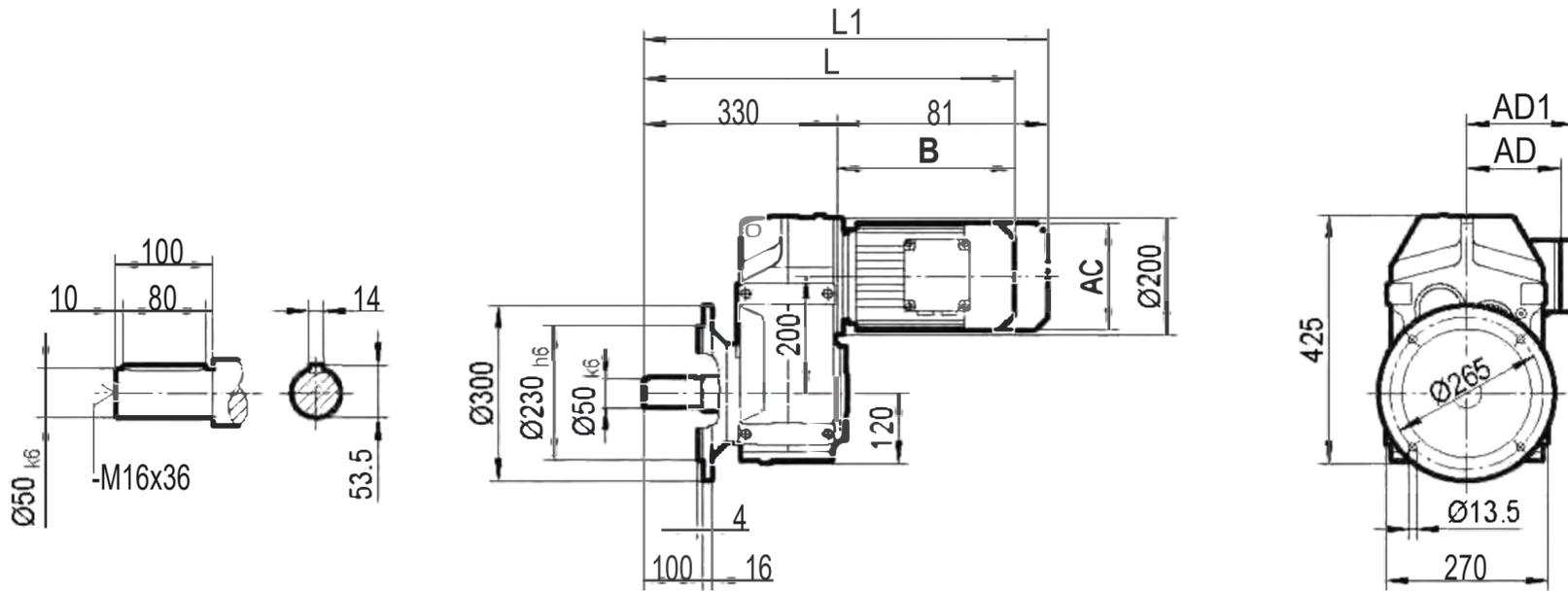
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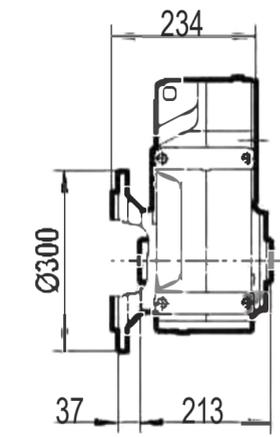
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AD	105	122	122	154	166	166	179	179		
AD1	105	127	127	161	166	166	182	182		
B	185	199	249	269	319	349	354	402		
B1	240	263	313	354	404	434	434	482		
L	358	372	422	442	492	522	527	575		
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OUTLINE DIMENSION SHEET

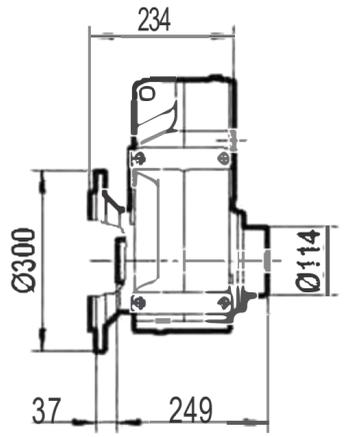
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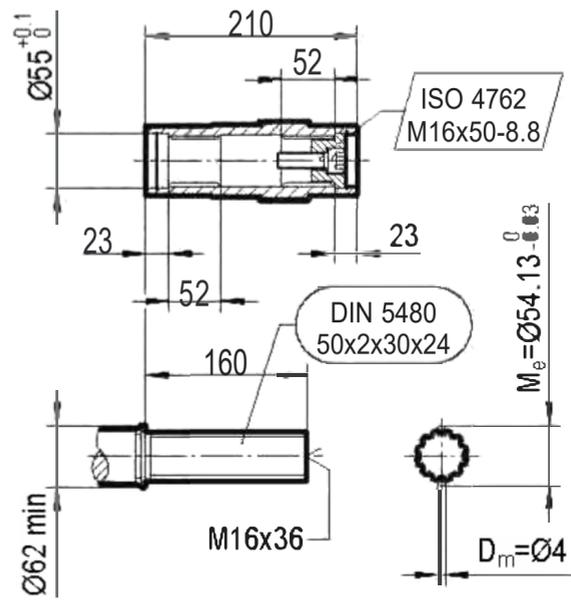
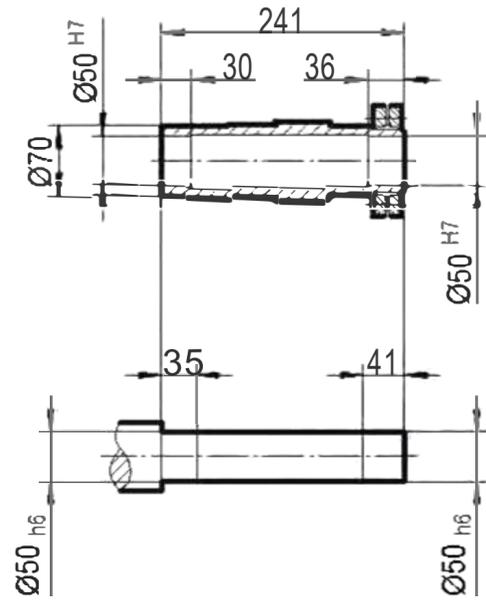
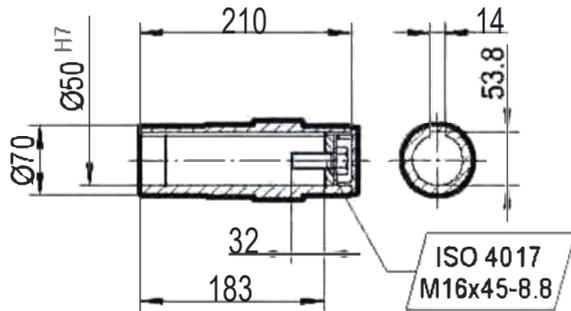
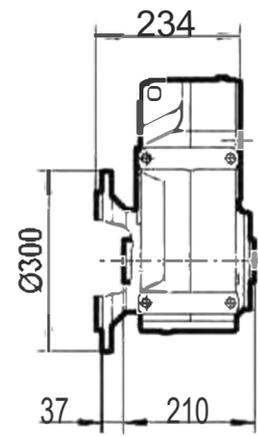
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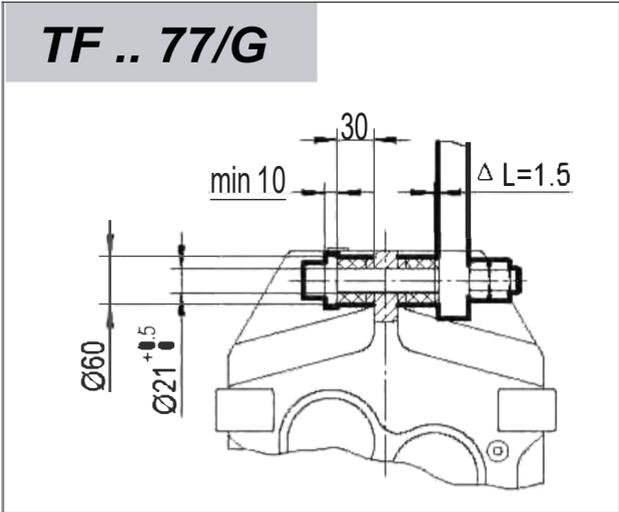
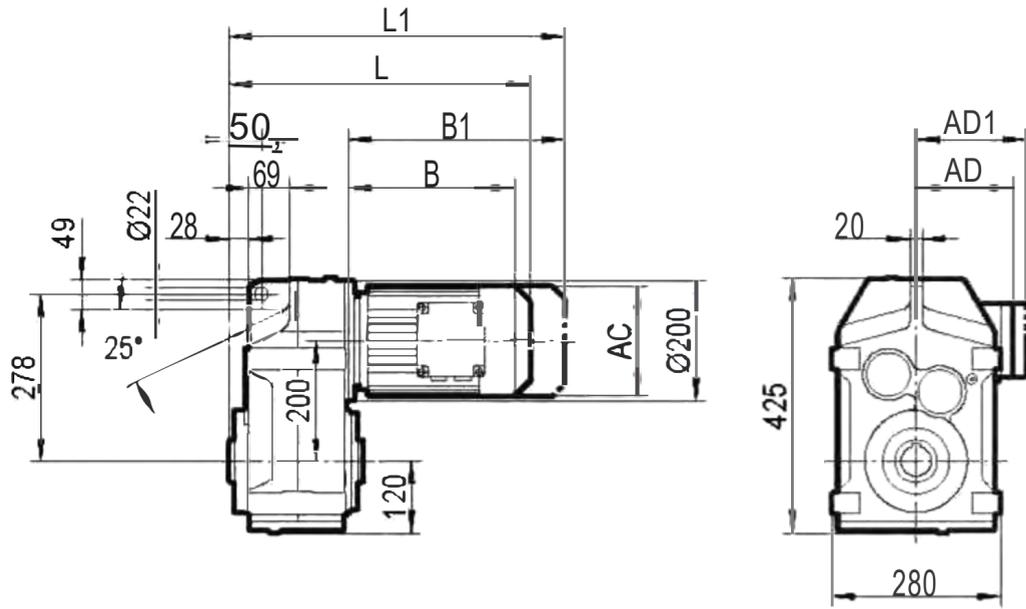
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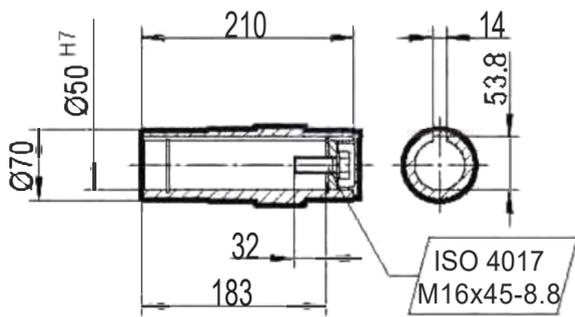
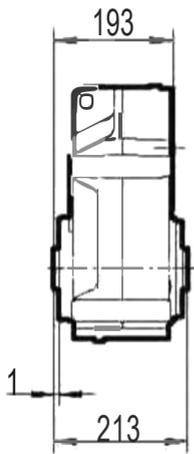
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AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	584	584
L	509	523	573	591	641	671	675	720	742	802	802
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OUTLINE DIMENSION SHEET

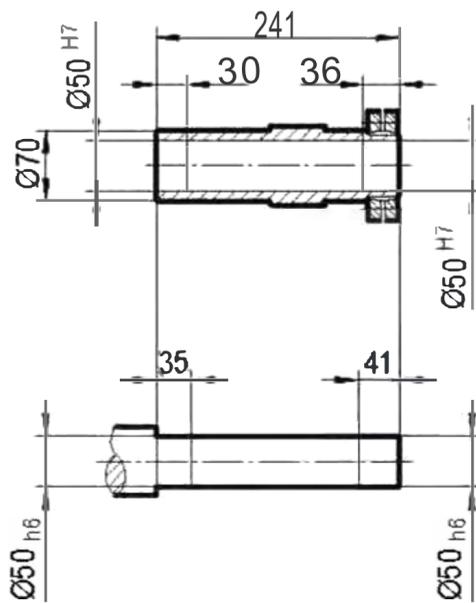
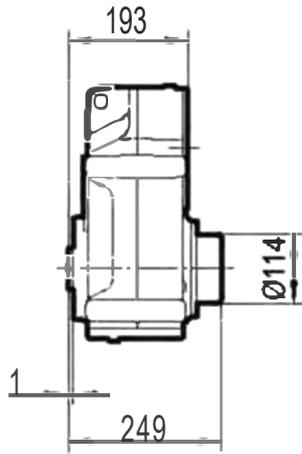
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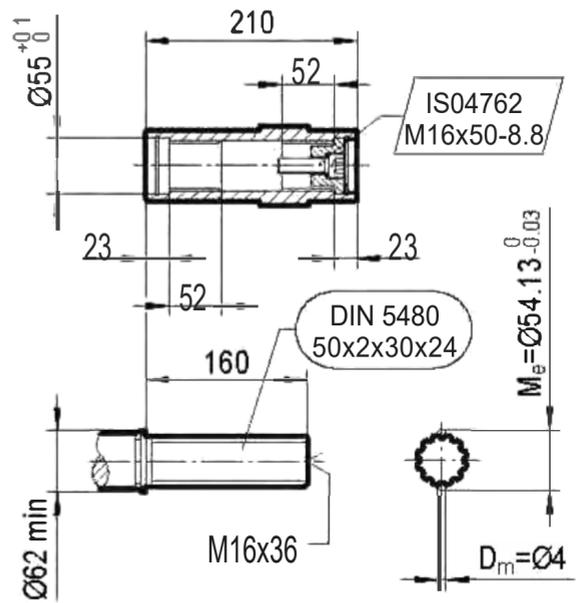
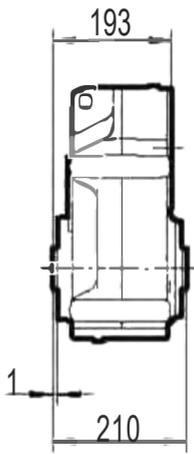
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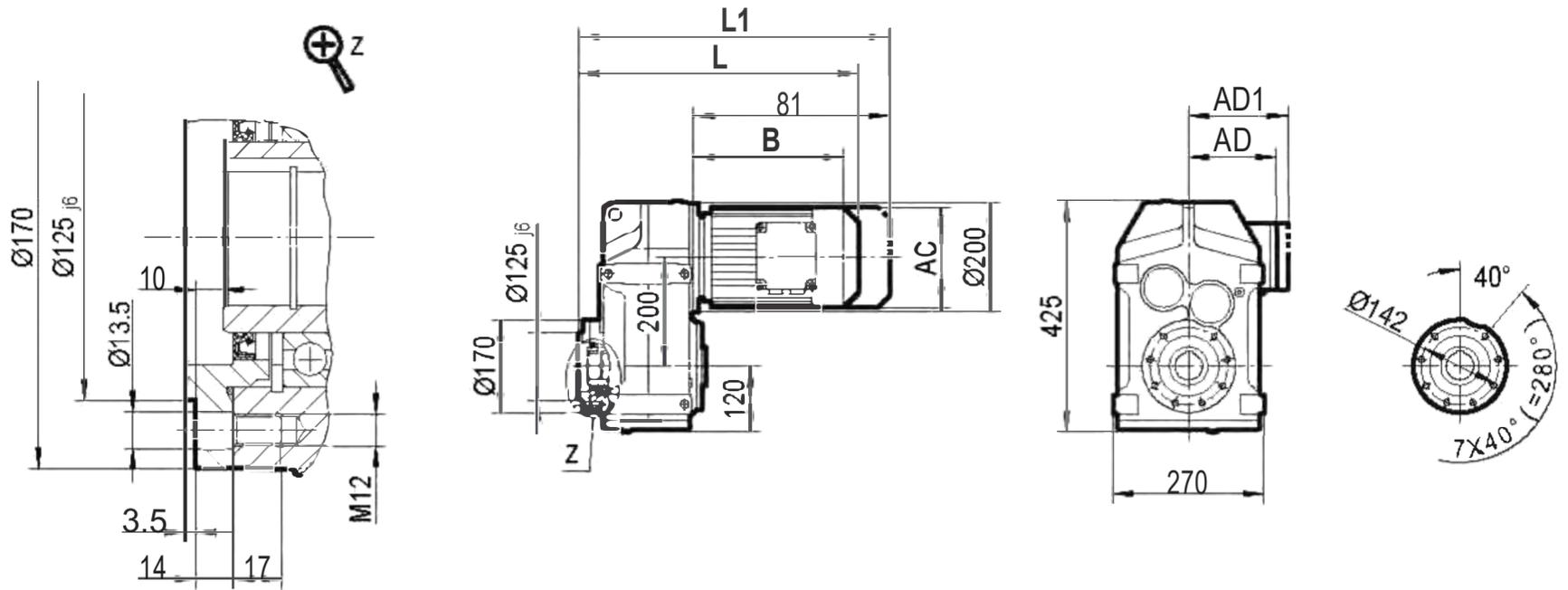
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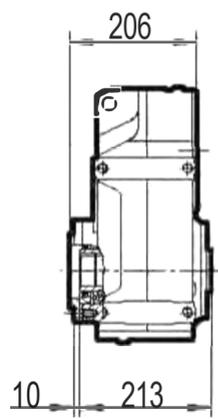
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AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	584	584
L	372	386	436	454	504	534	538	583	605	665	665
L1	427	450	500	539	589	619	618	663	717	777	777

OUTLINE DIMENSION SHEET

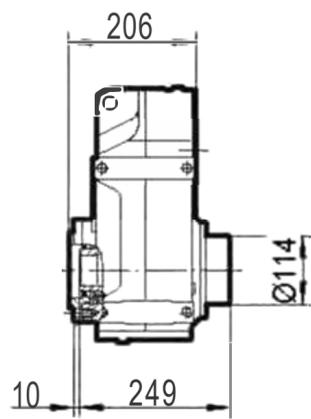
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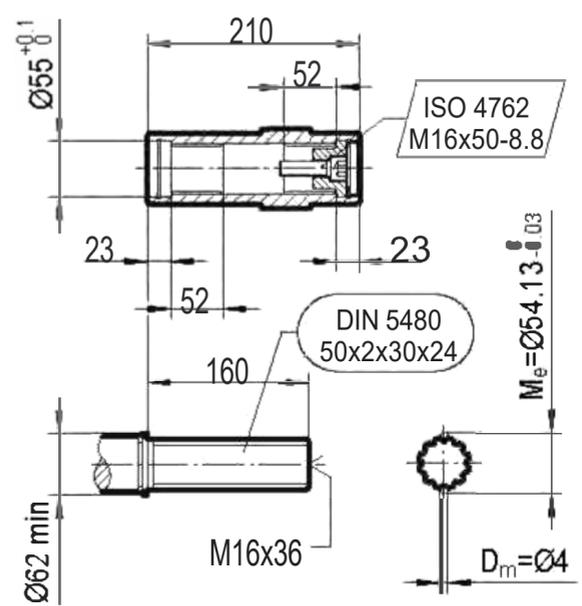
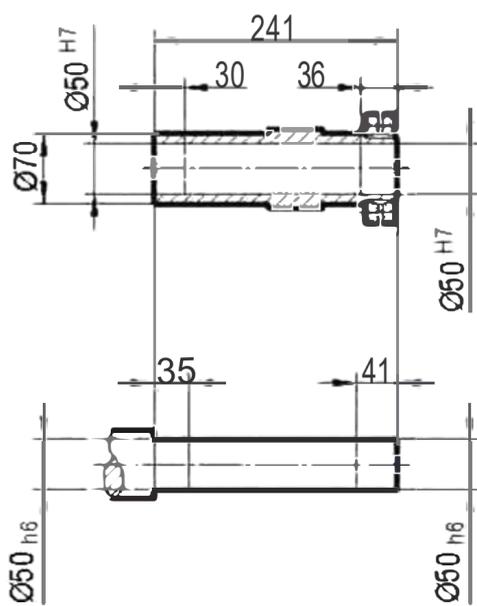
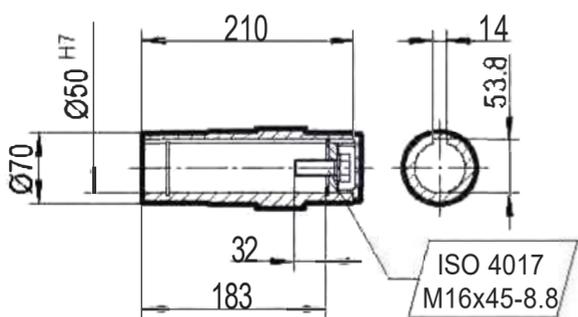
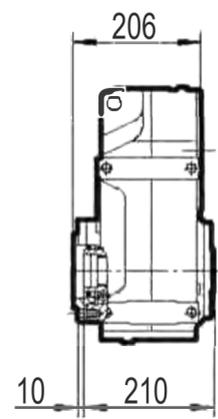
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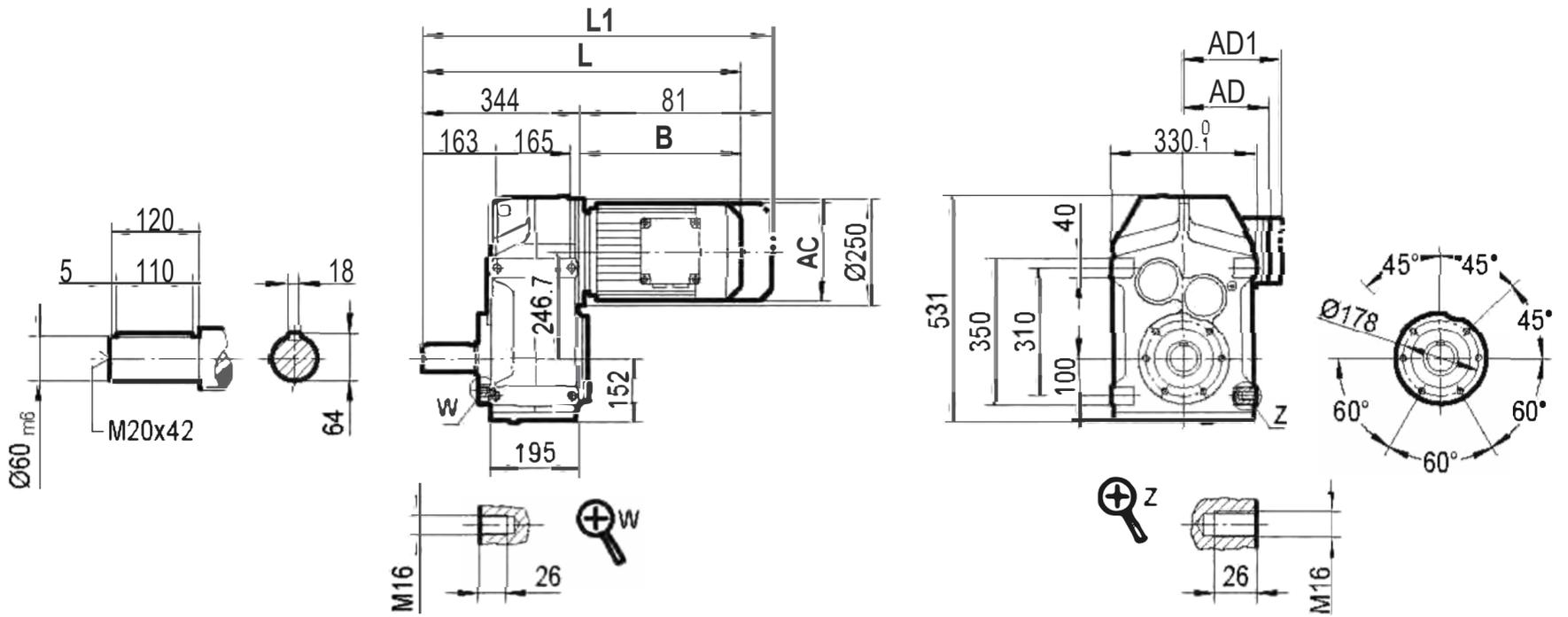
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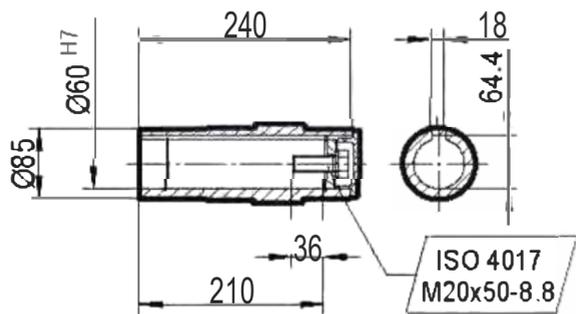
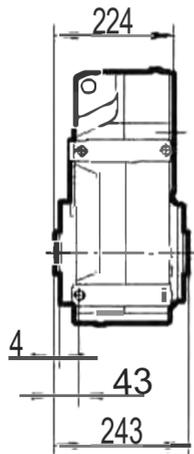
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AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	584	584
L	385	399	449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

OUTLINE DIMENSION SHEET

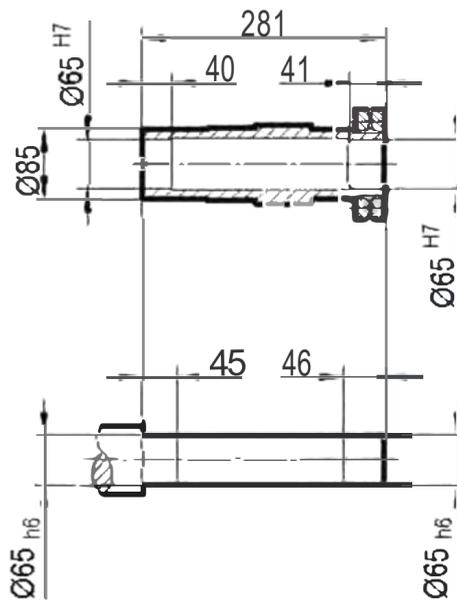
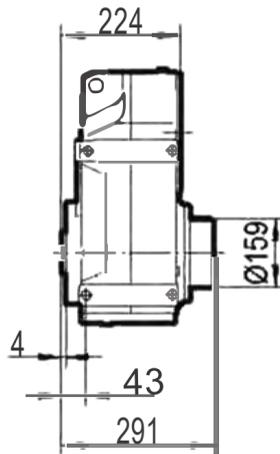
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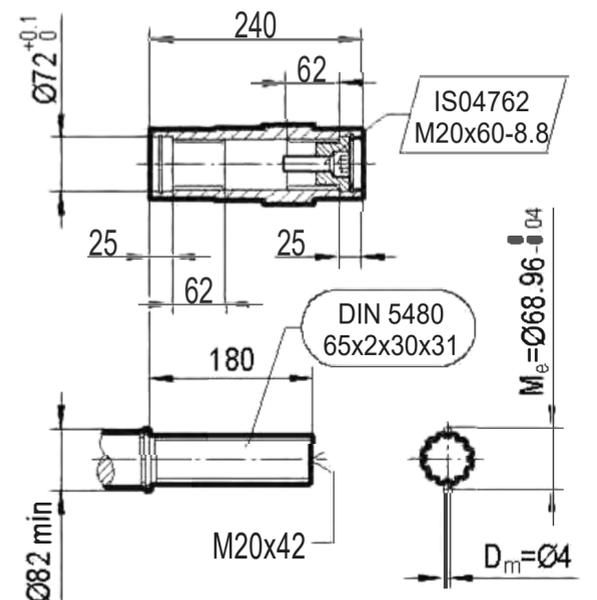
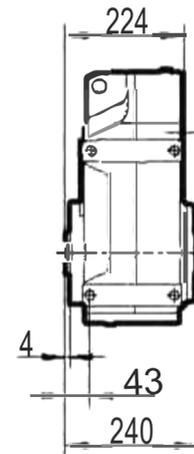
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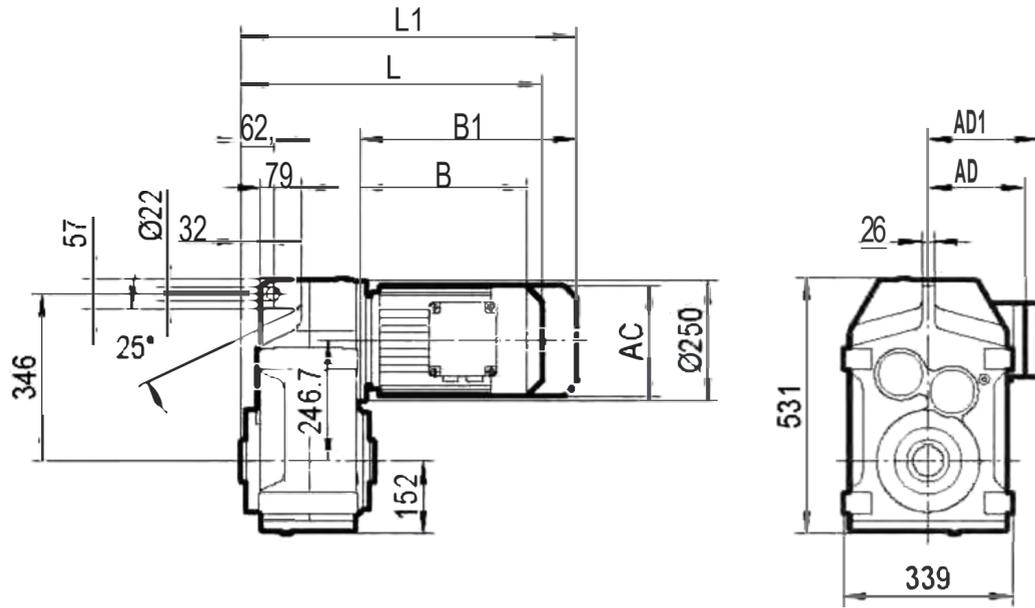
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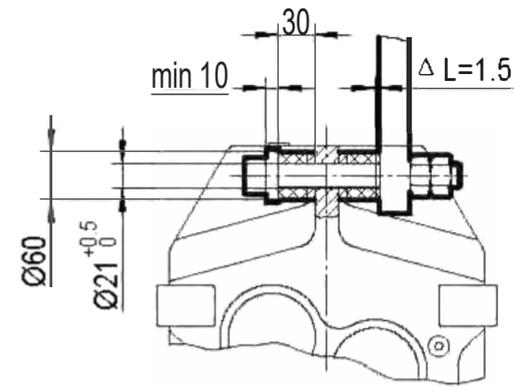
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AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	582	601	651	681	684	729	751	811	811	858	930
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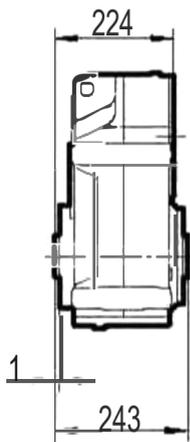
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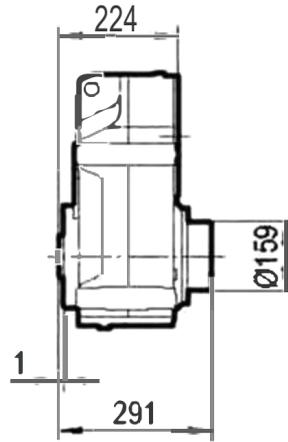
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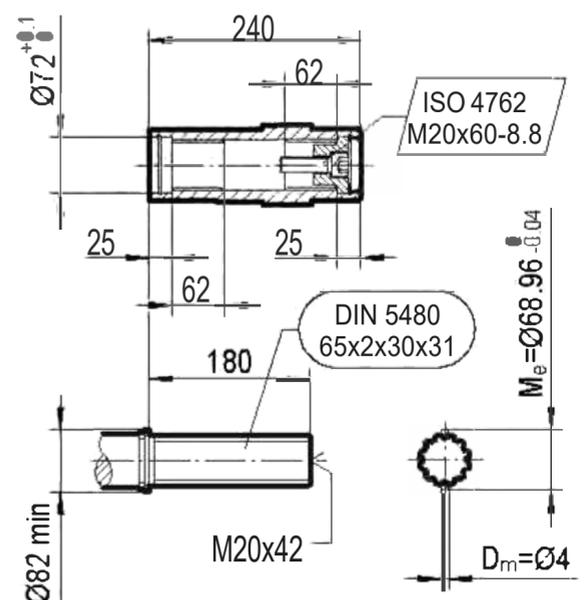
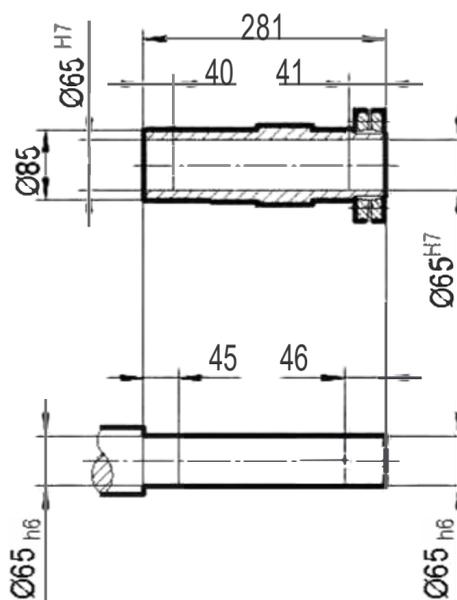
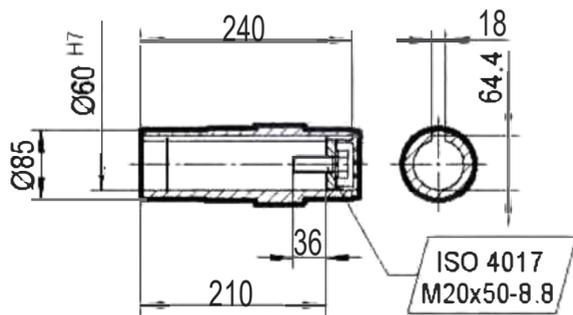
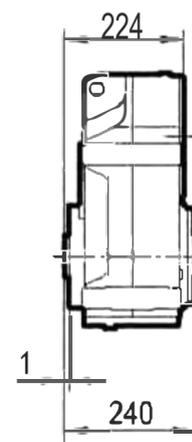
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TFH87..



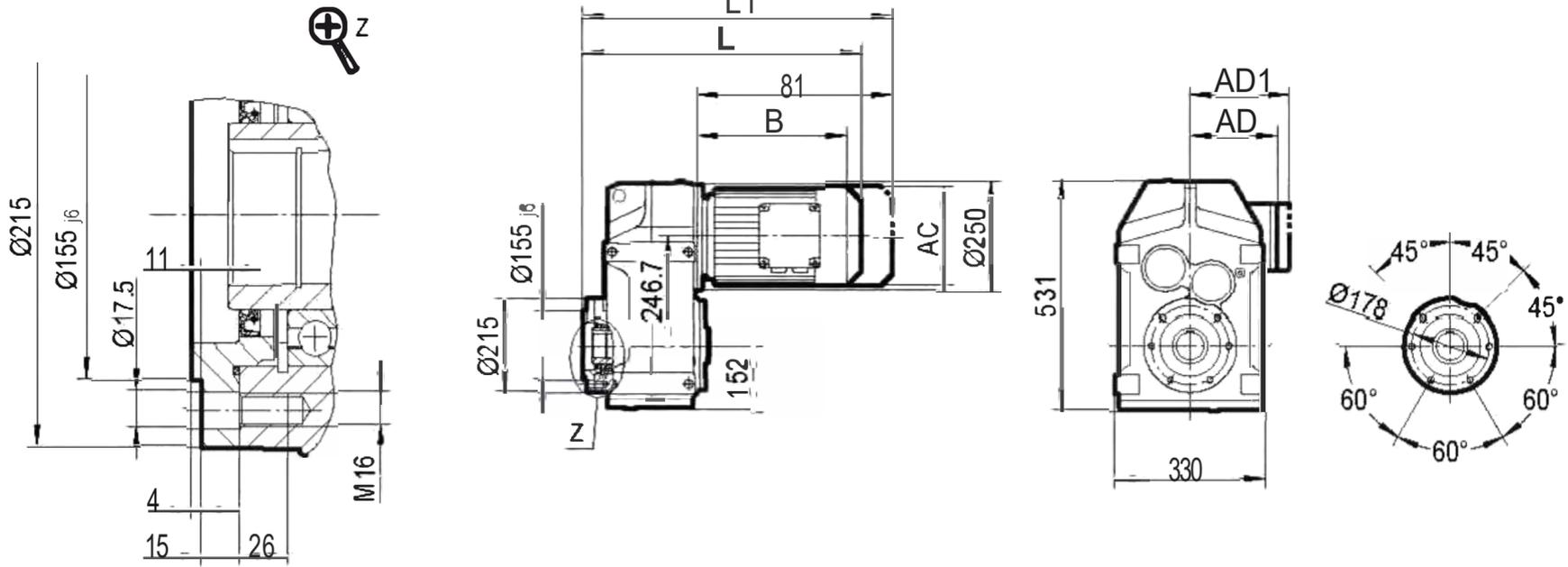
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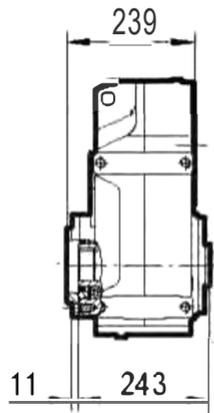
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AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	462	481	531	561	564	609	631	691	691	738	810
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OUTLINE DIMENSION SHEET

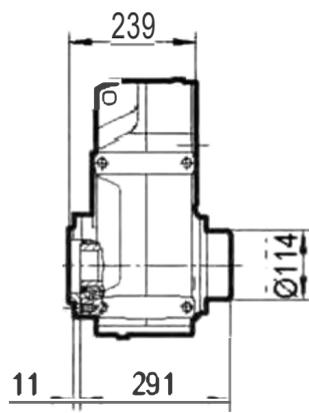
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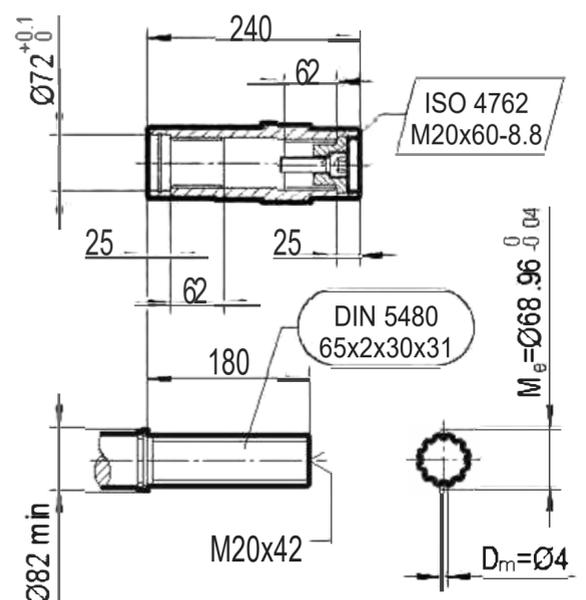
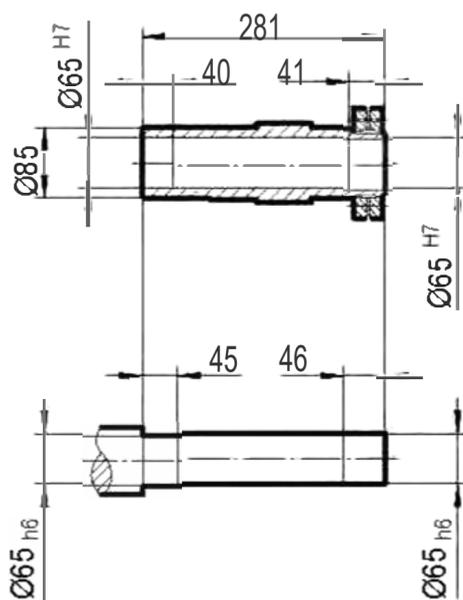
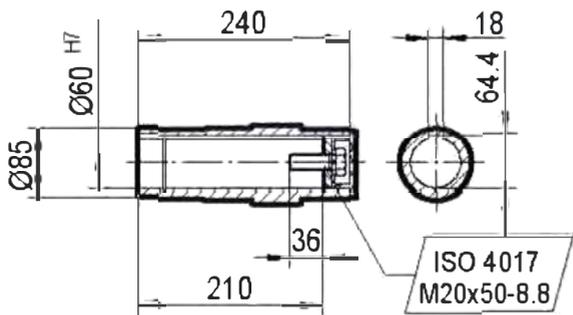
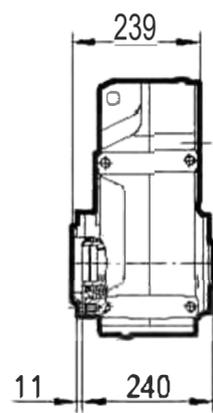
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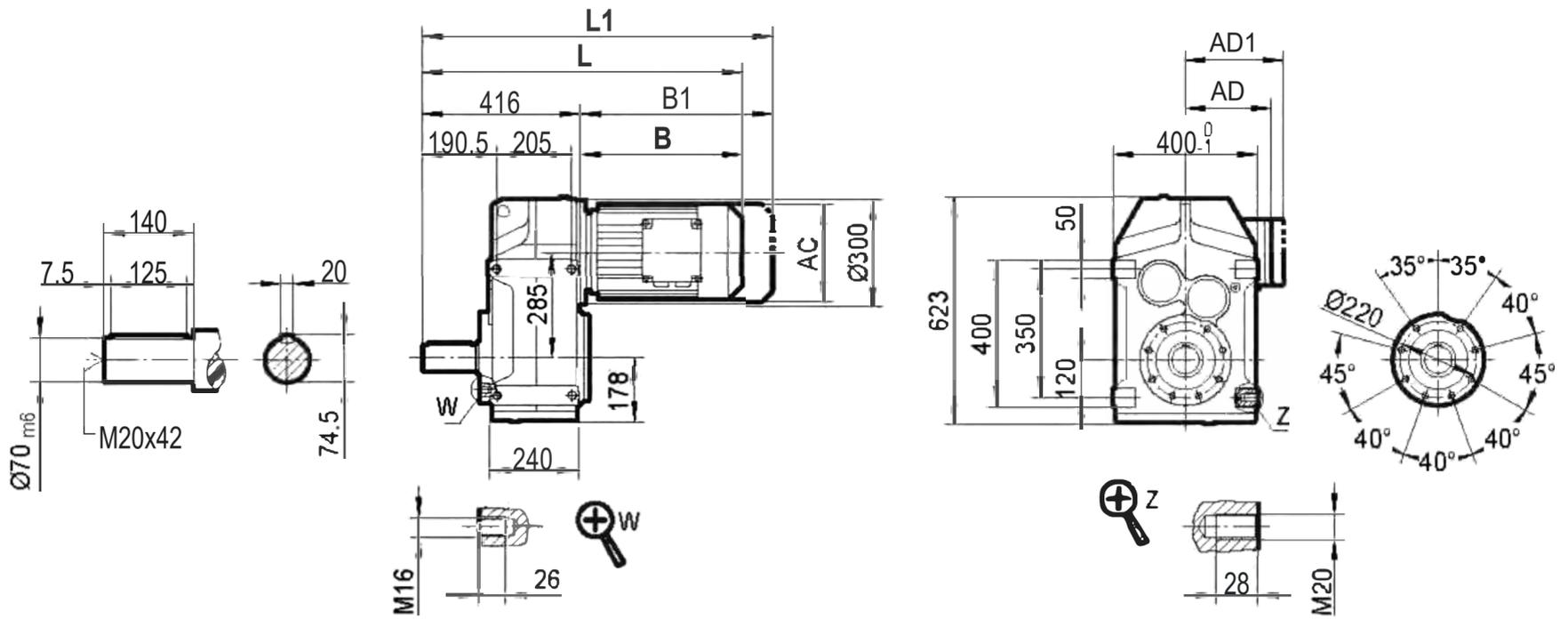
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	80..	90..	100M	100L	112M	132S	132M	132ML	160M	160L	180..
AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	477	496	546	576	579	624	646	706	706	753	825
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OUTLINE DIMENSION SHEET

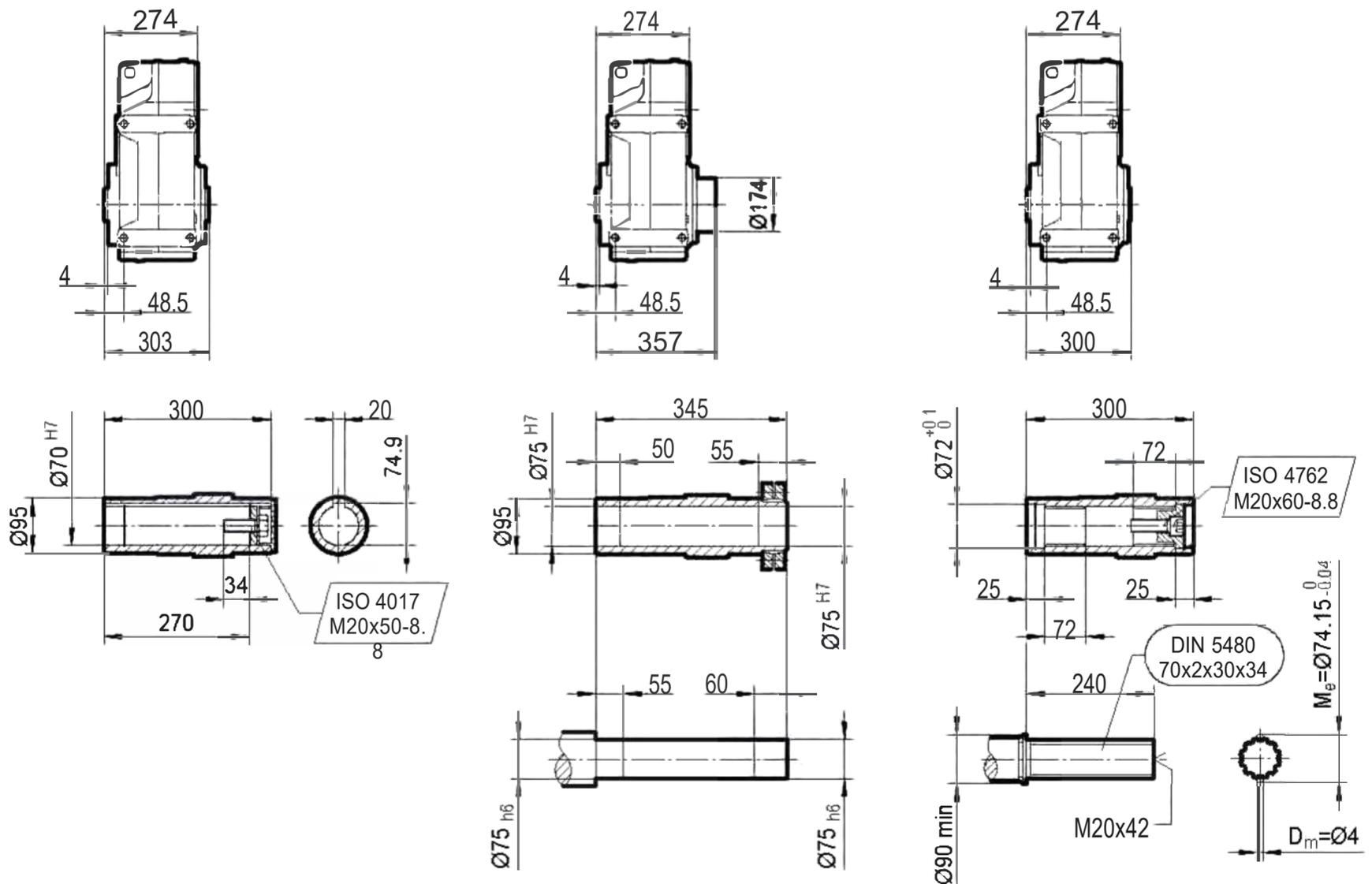
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TFA97B..

TFH97B..

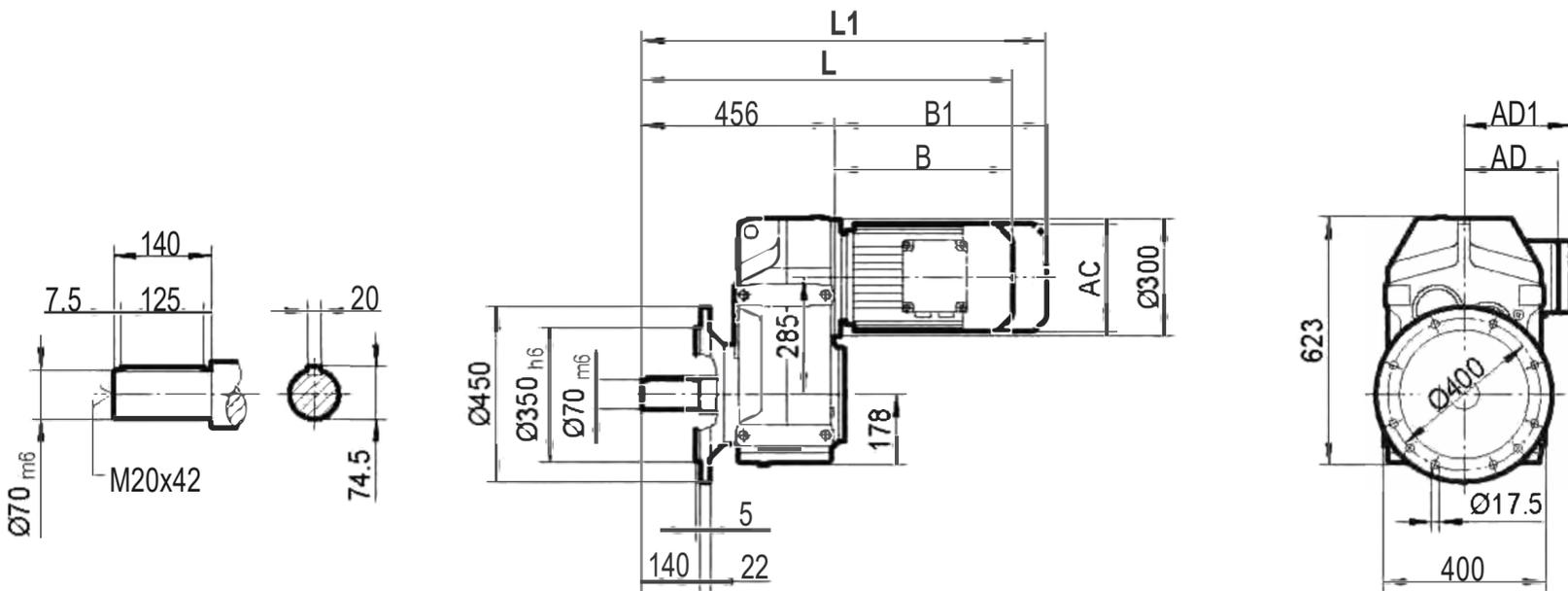
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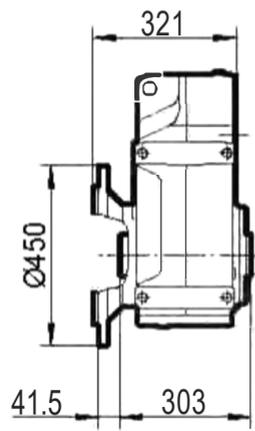
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AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	667	717	747	751	796	818	878	878	925	997	1045
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OUTLINE DIMENSION SHEET

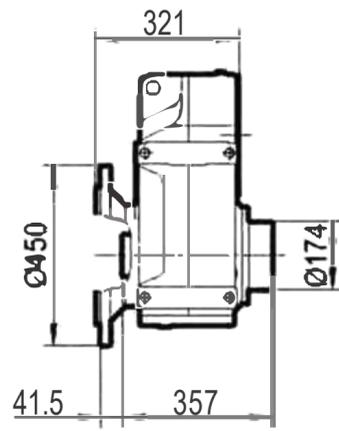
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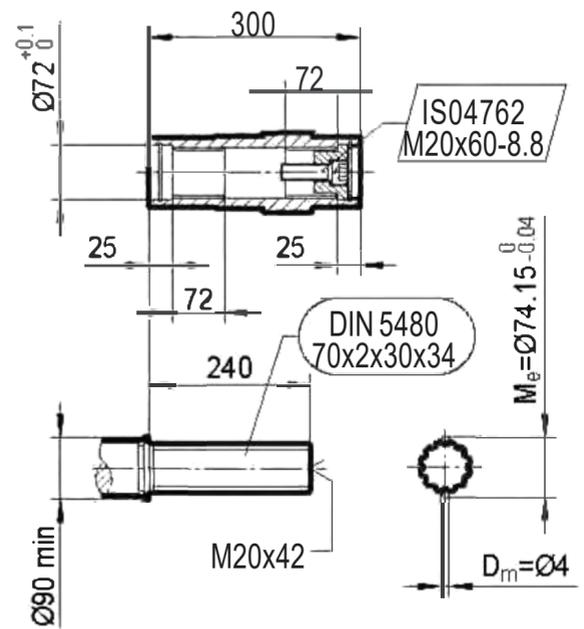
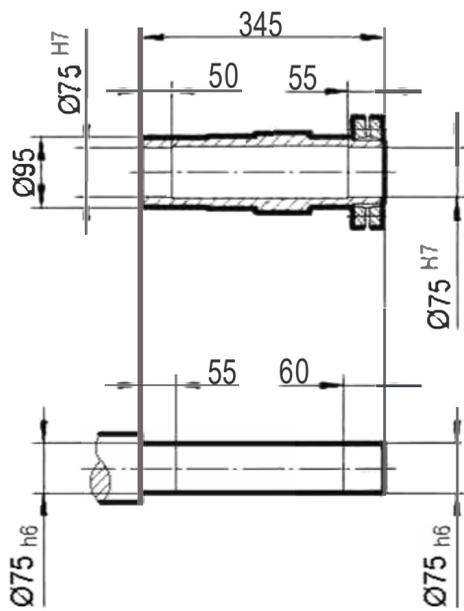
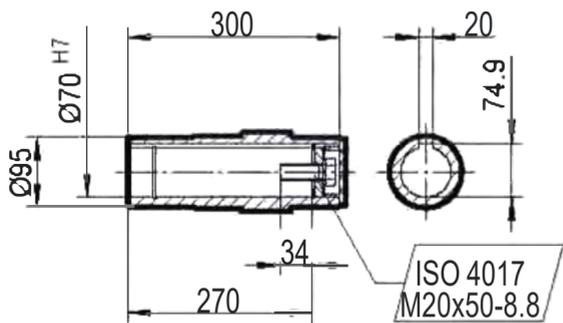
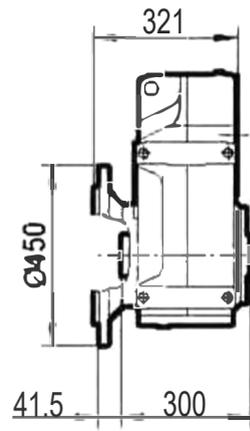
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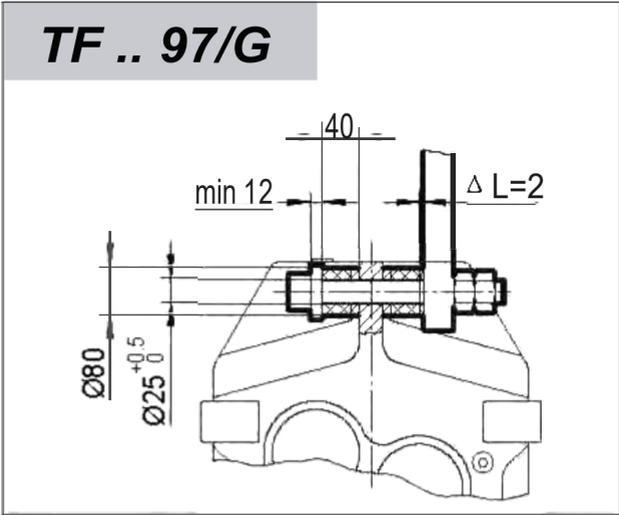
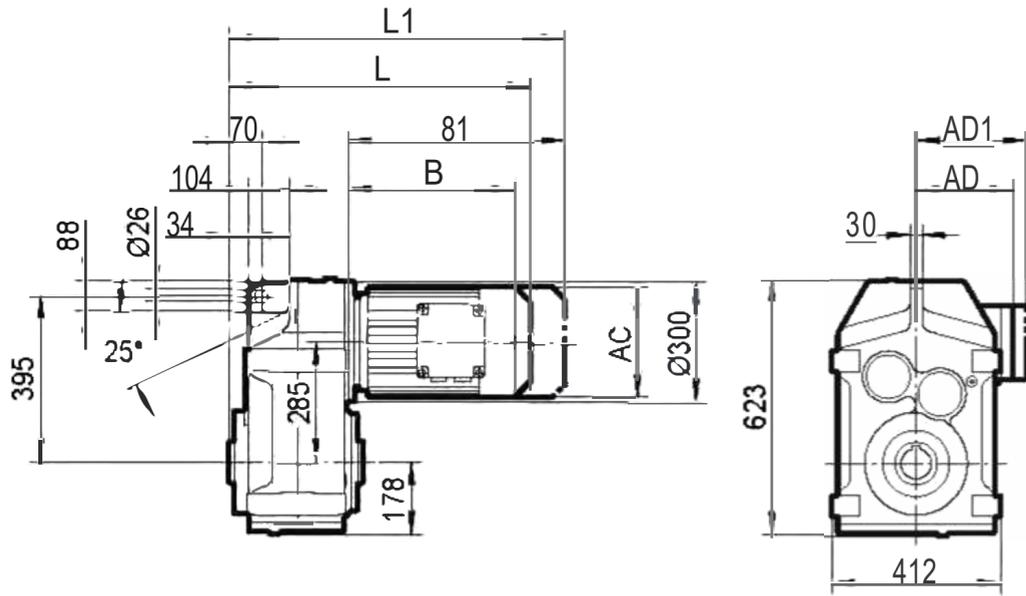
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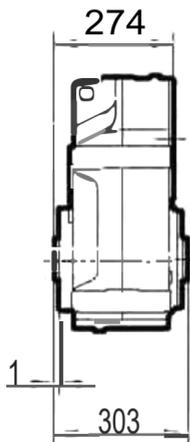
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AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	707	757	787	791	836	858	918	918	965	1037	1085
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OUTLINE DIMENSION SHEET

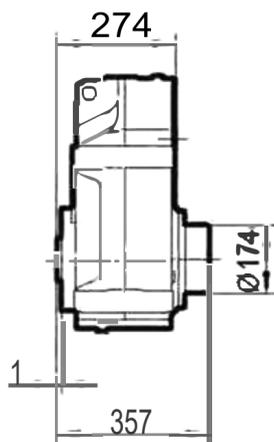
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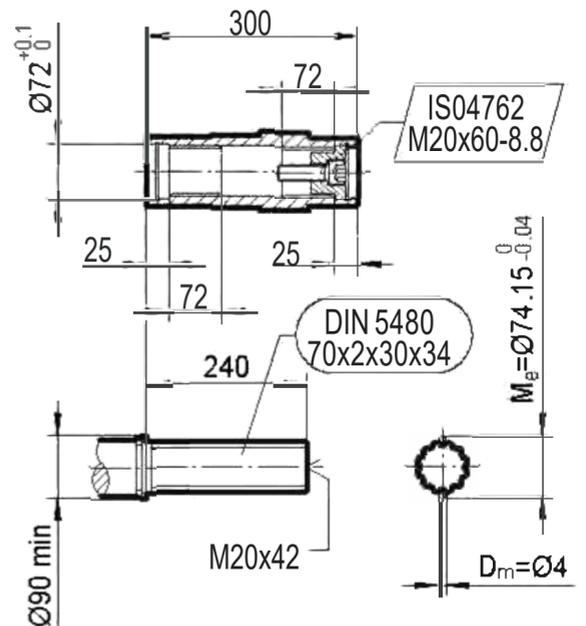
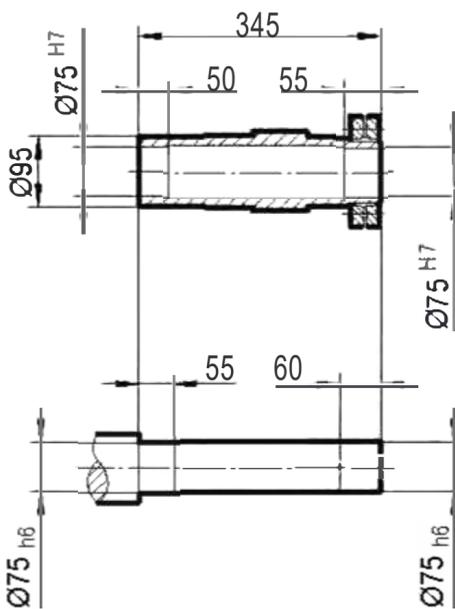
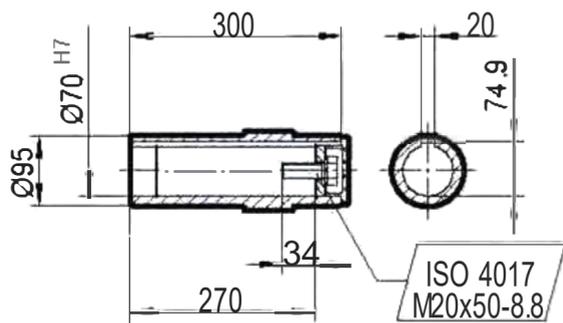
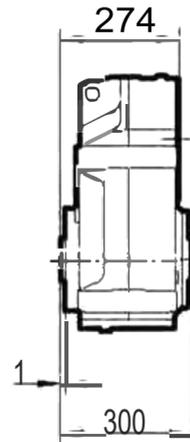
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TFH97..



TFV97..

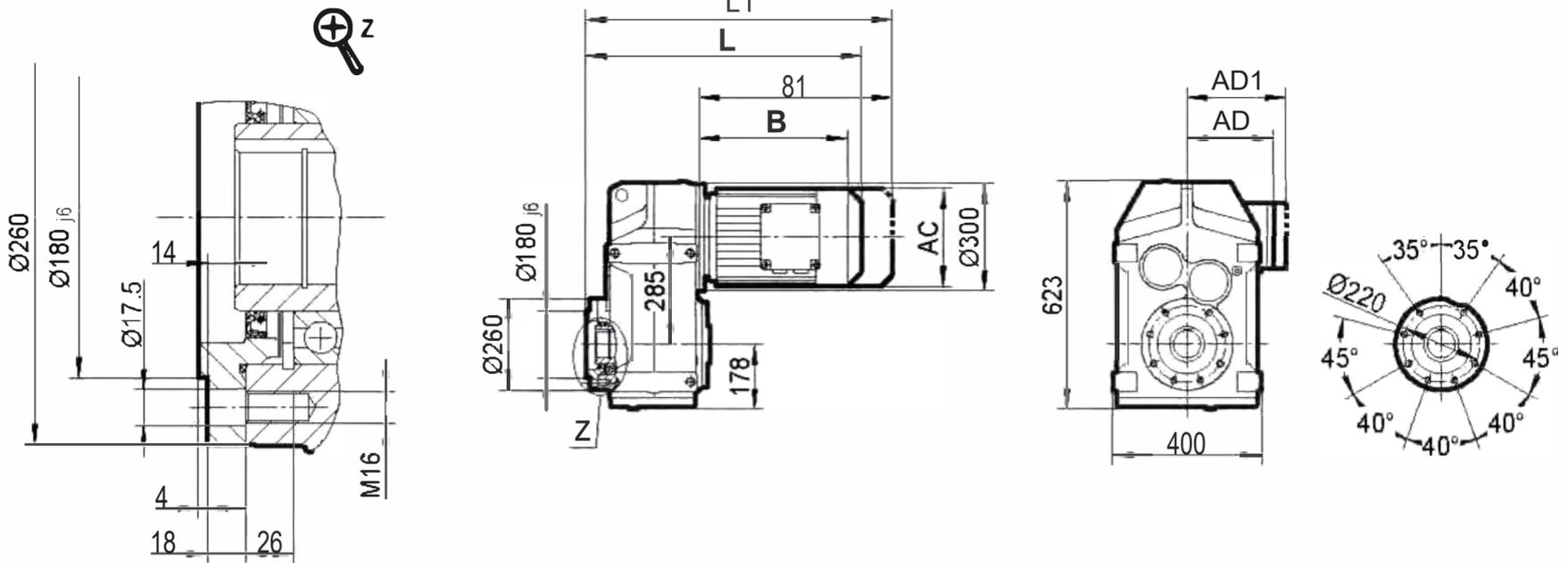


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AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	525	575	605	609	654	676	736	736	783	855	903
L1	610	660	690	689	734	788	848	848	939	1011	1059

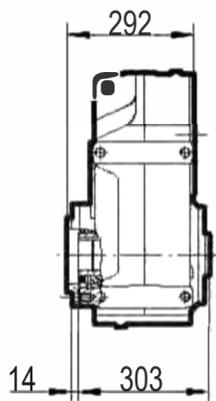


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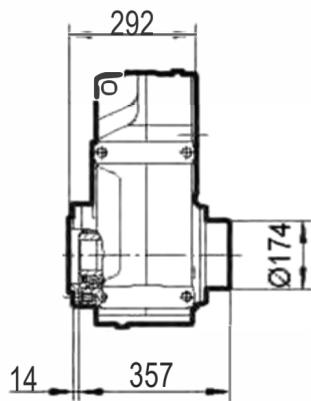
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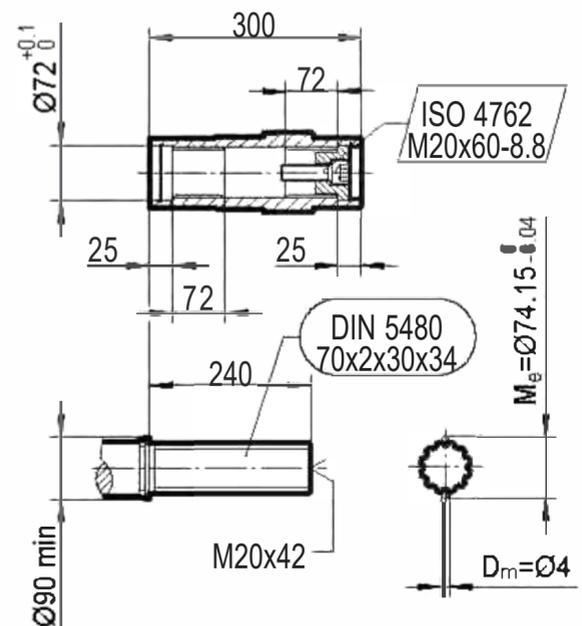
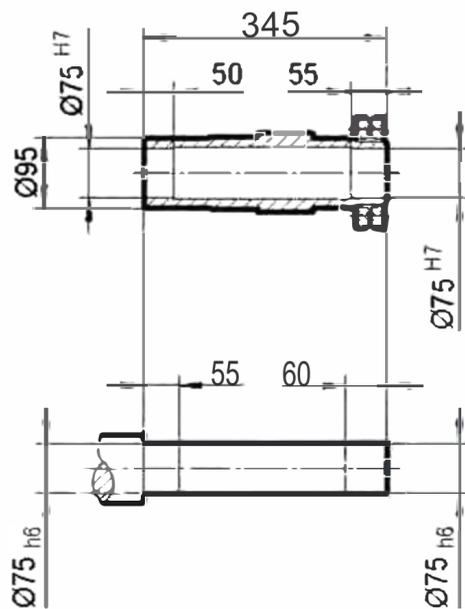
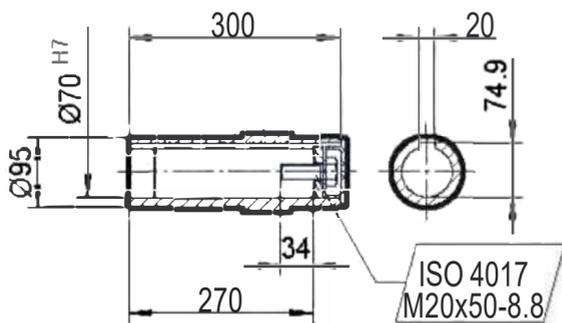
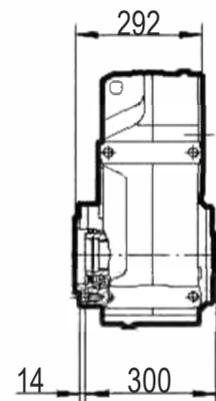
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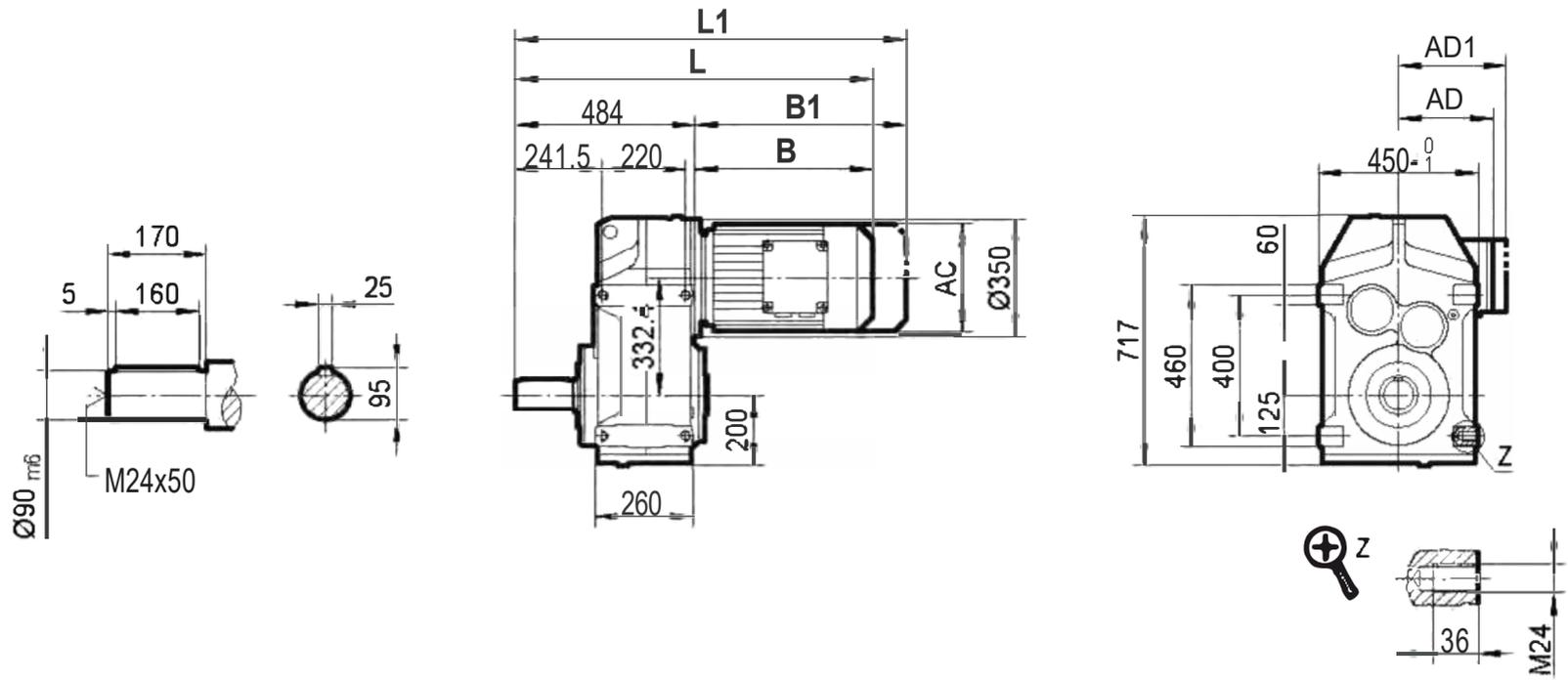
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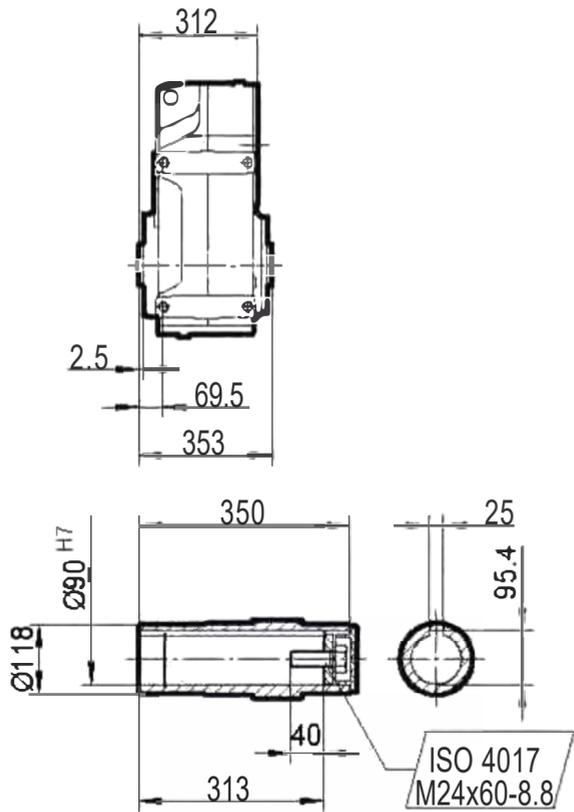
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AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	543	593	623	627	672	694	754	754	801	873	921
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OUTLINE DIMENSION SHEET

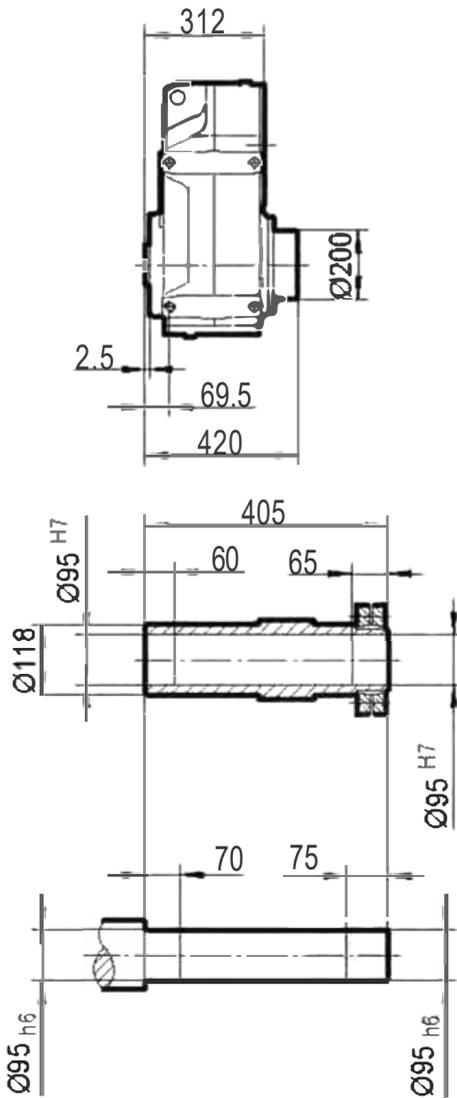
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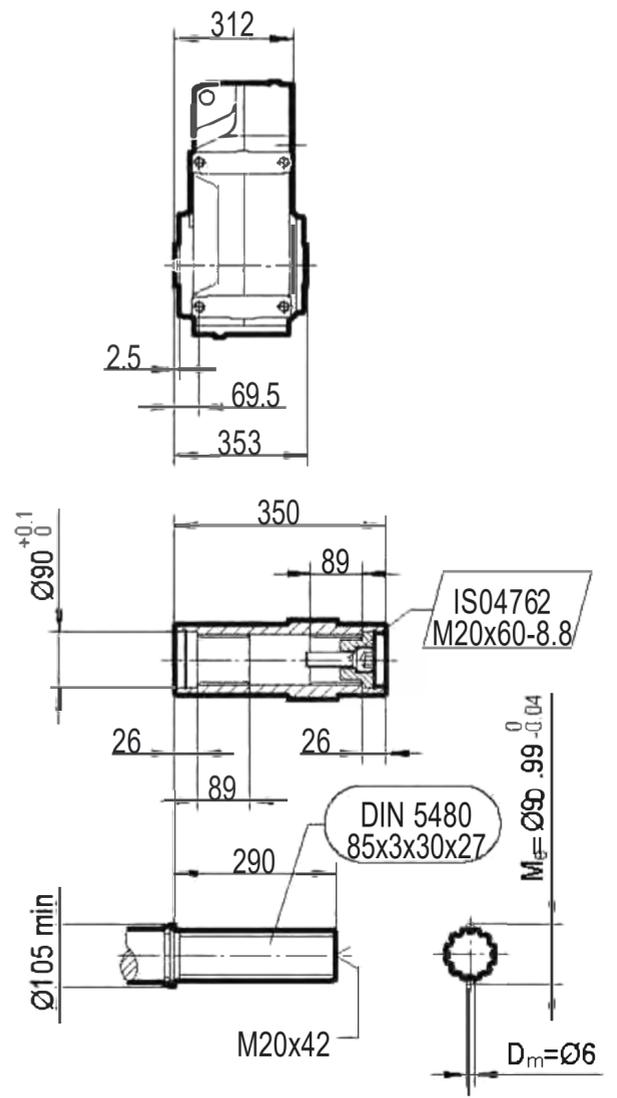
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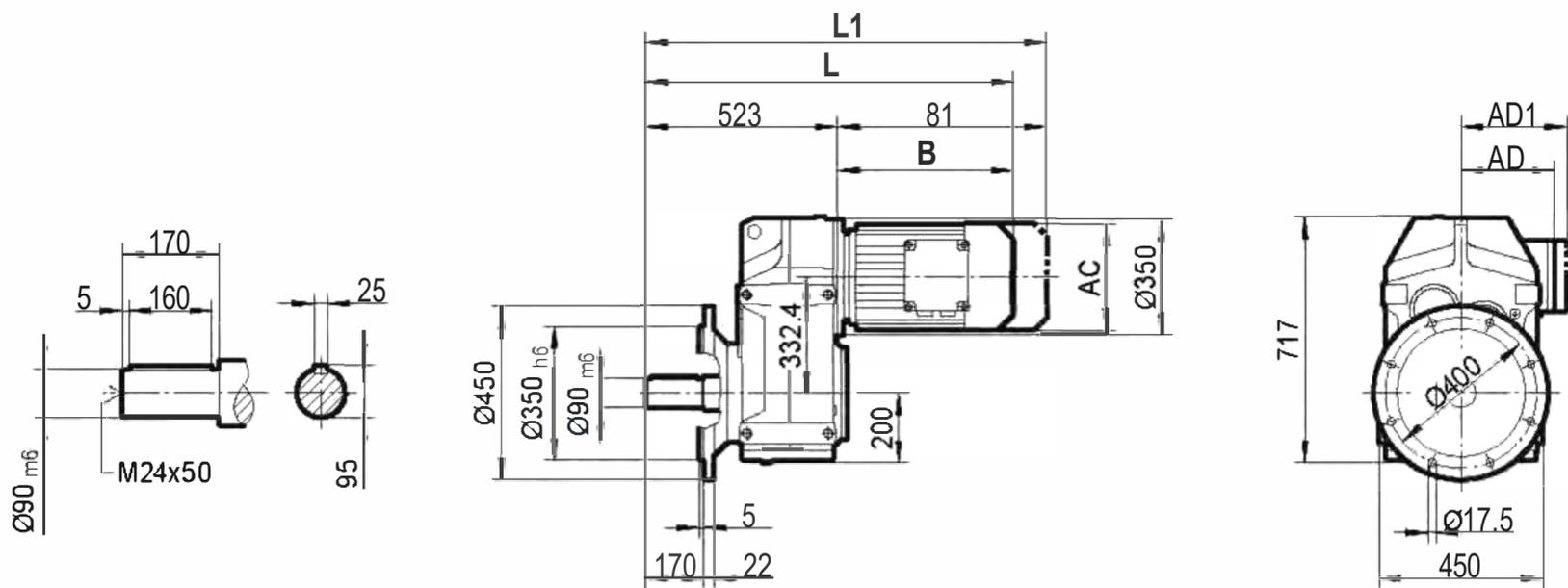
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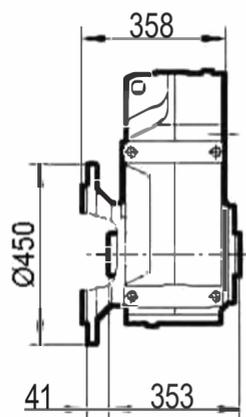
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AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	731	779	861
L	779	809	813	858	880	940	940	987	1059	1107	1189
L1	864	894	893	938	992	1052	1052	1143	1215	1263	1345

OUTLINE DIMENSION SHEET

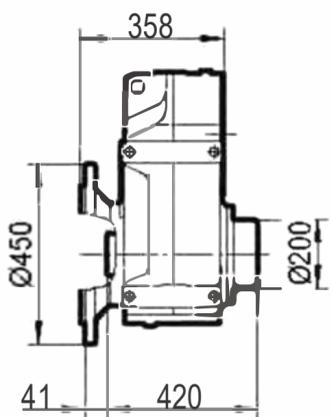
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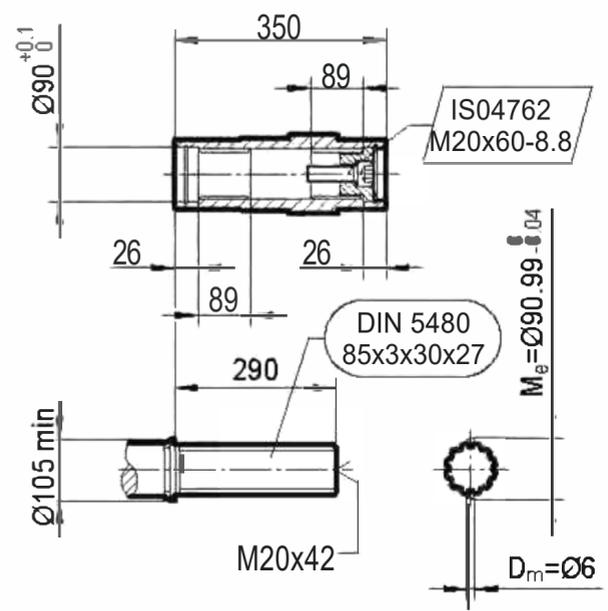
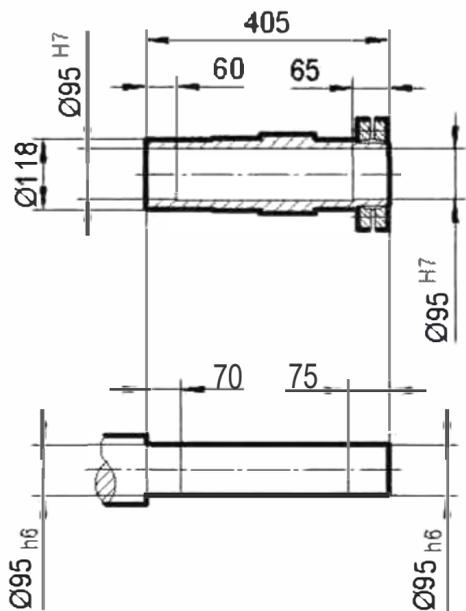
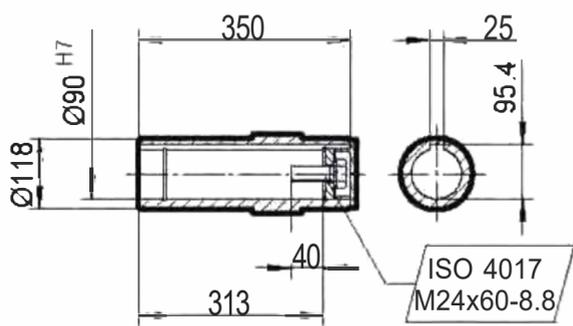
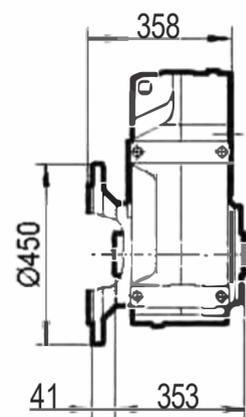
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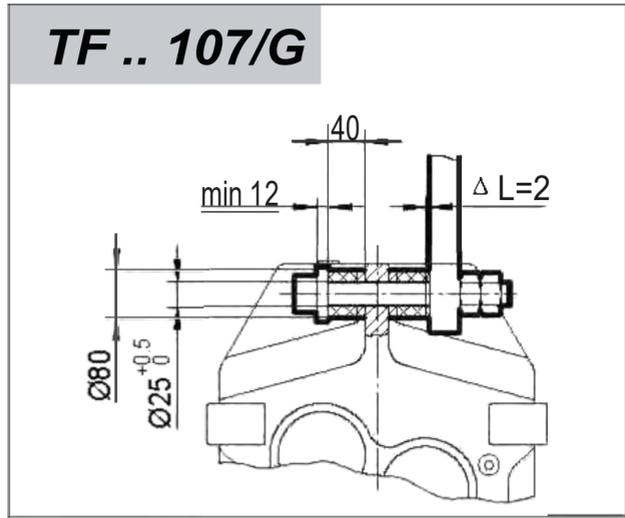
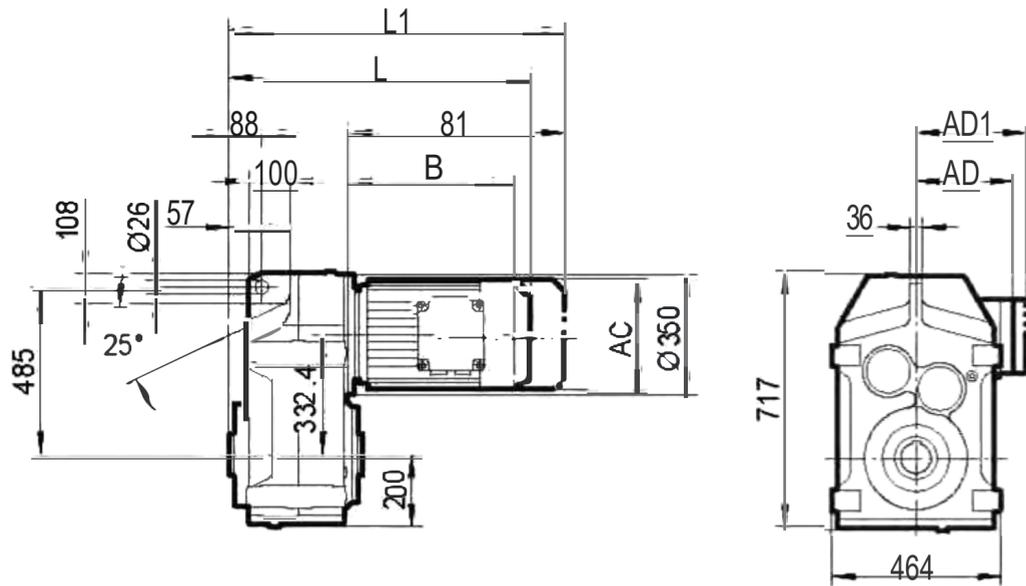
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AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	731	779	861
L	818	848	852	897	919	979	979	1026	1098	1146	1228
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OUTLINE DIMENSION SHEET

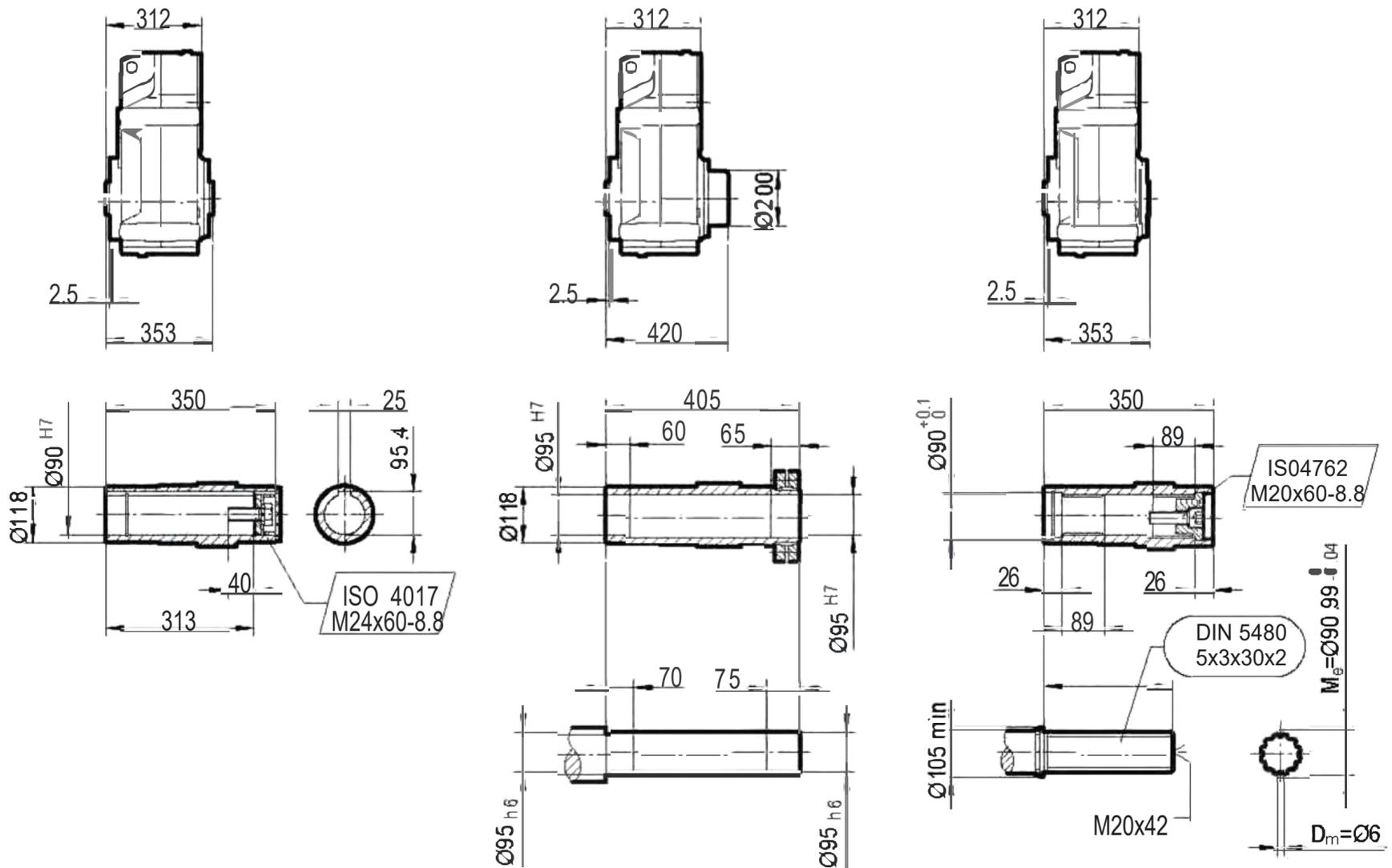
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TFA107..

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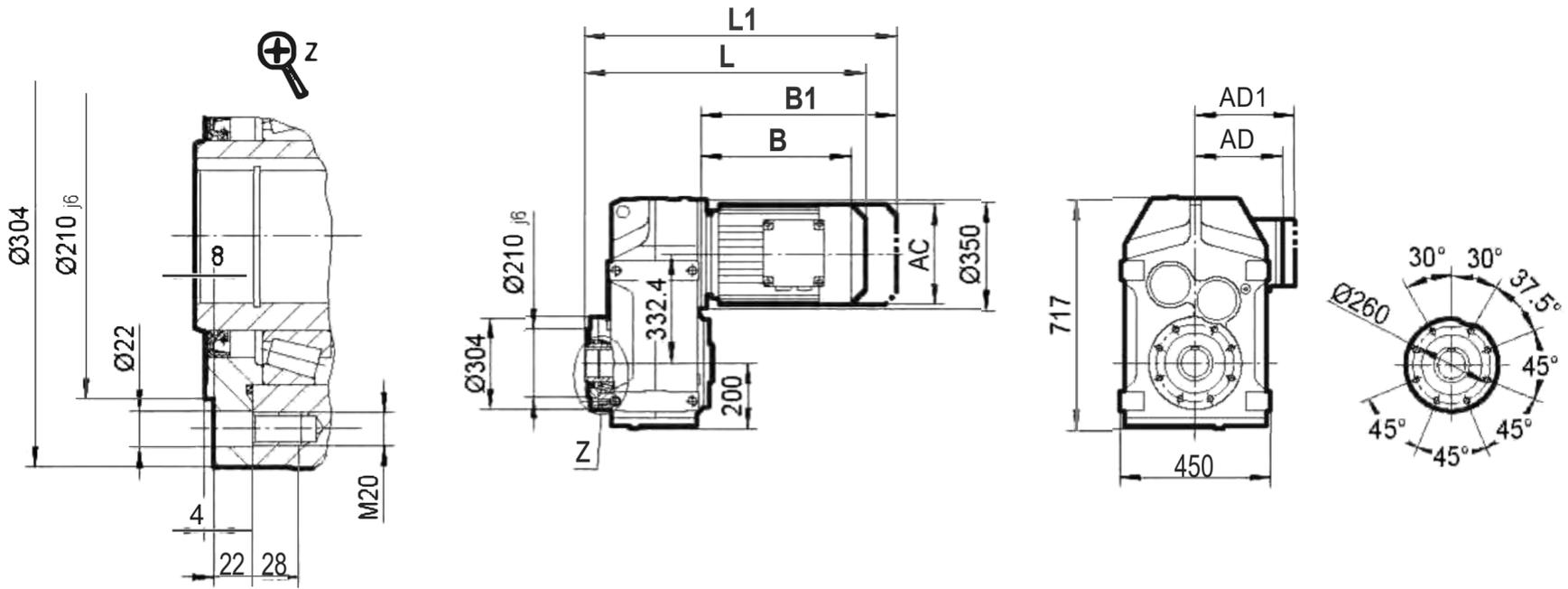
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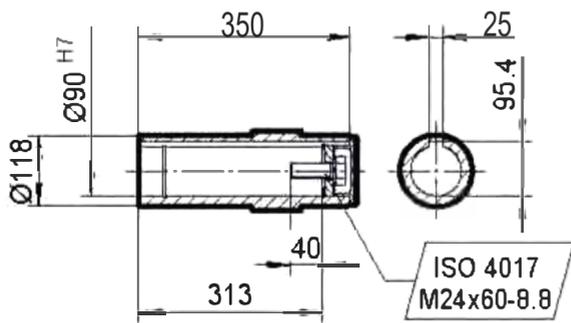
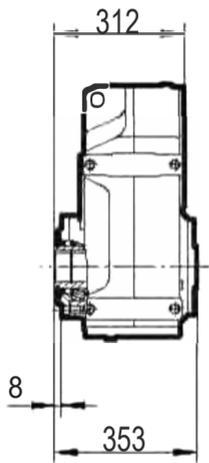
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AC	197	197	221	221	275	275	275	331	331	394	394
AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	731	779	861
L	607	637	641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

OUTLINE DIMENSION SHEET

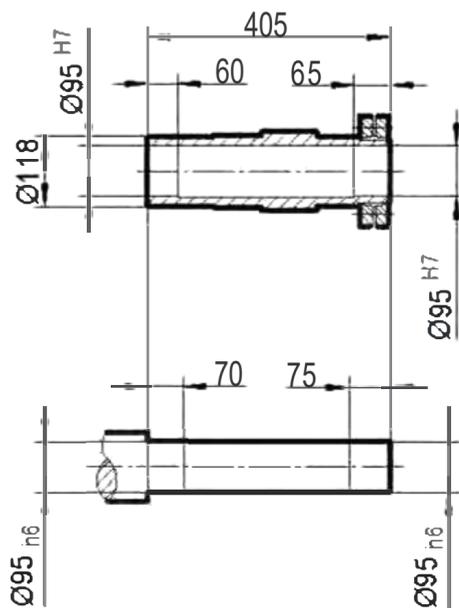
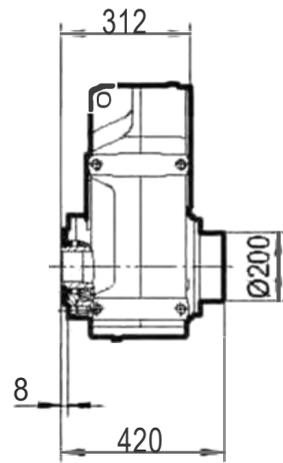
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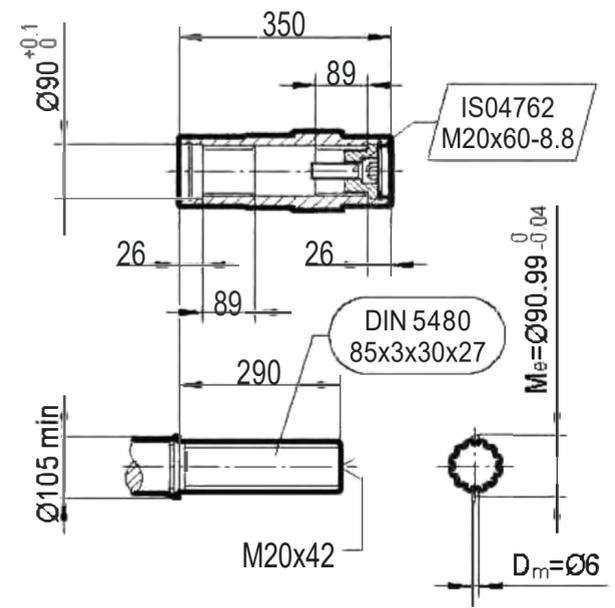
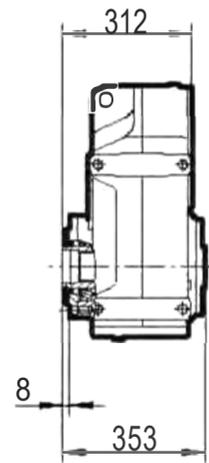
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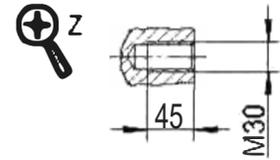
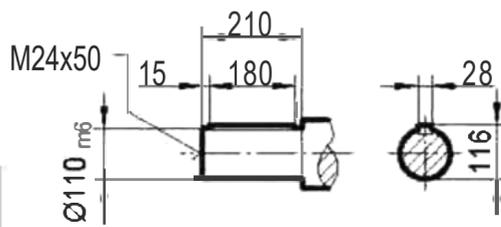
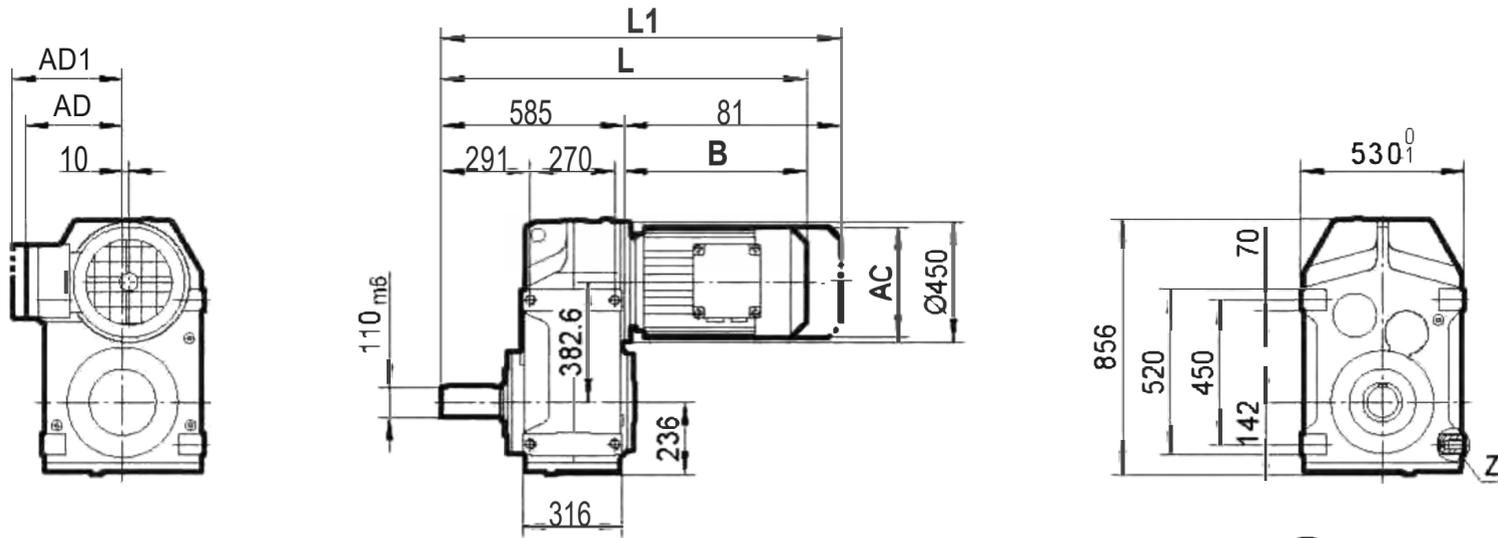
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AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	659	731	779	861
L	607	637	641	686	708	768	768	815	887	935	1017
L1	692	722	721	766	820	880	880	971	1043	1091	1173

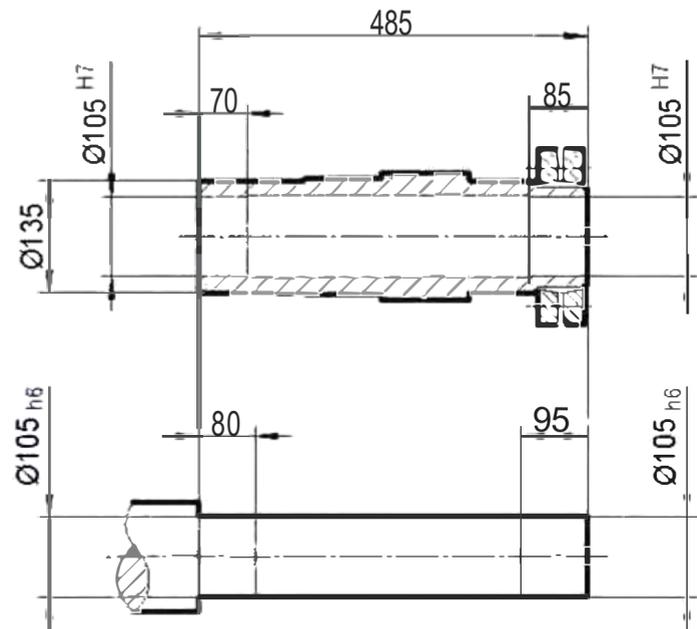
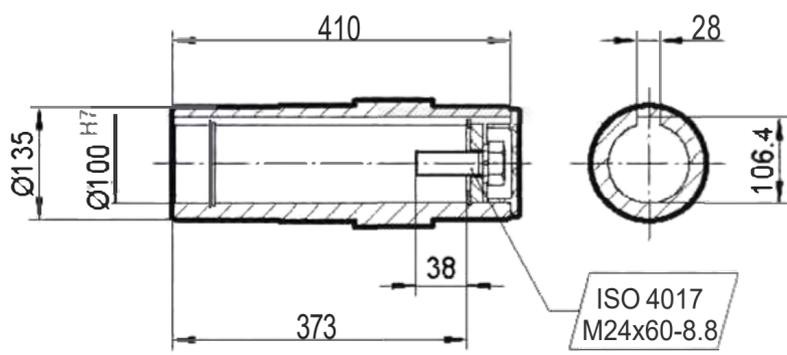
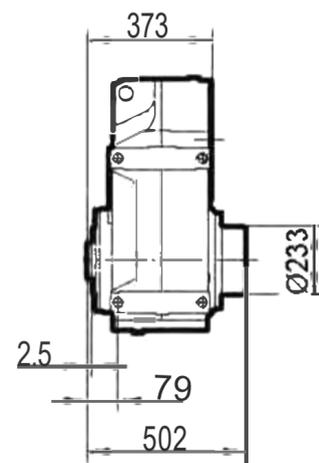
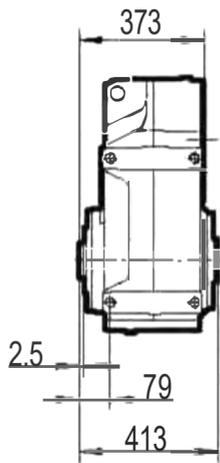
OUTLINE DIMENSION SHEET

TF127..



TFA127B..

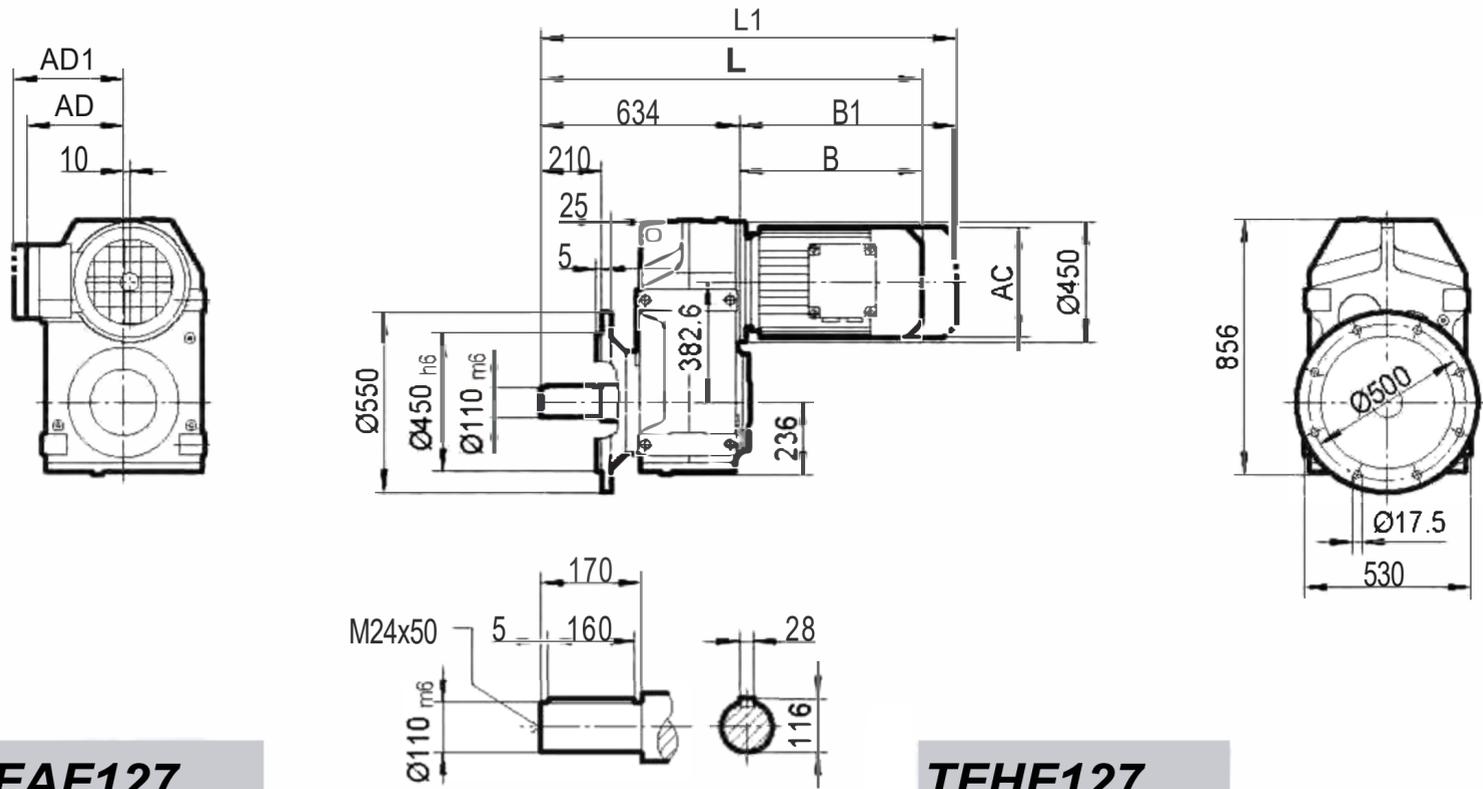
TFH127B..



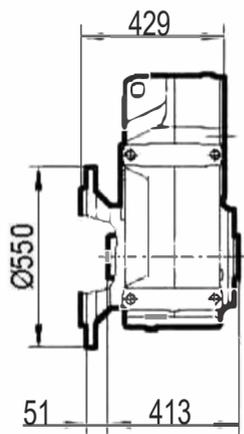
	132M	132ML	160M	160L	180..	200..	225..	250M	280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	966	1026	1026	1073	1145	1193	1275	1365	1365		
L1	1078	1138	1138	1229	1301	1349	1431	1550	1550		

OUTLINE DIMENSION SHEET

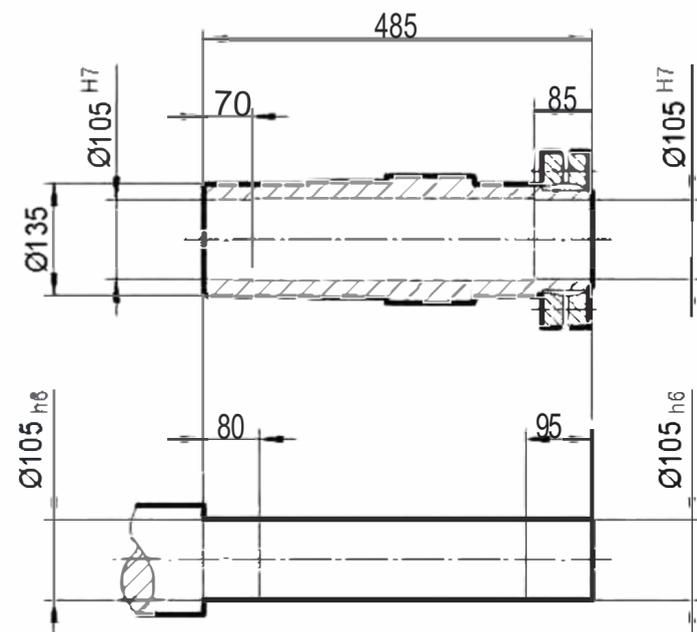
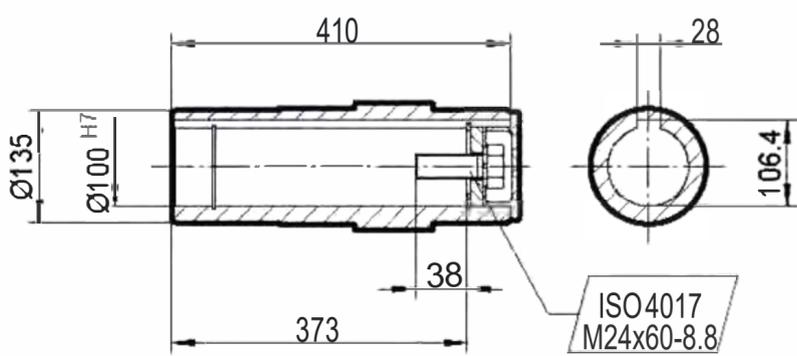
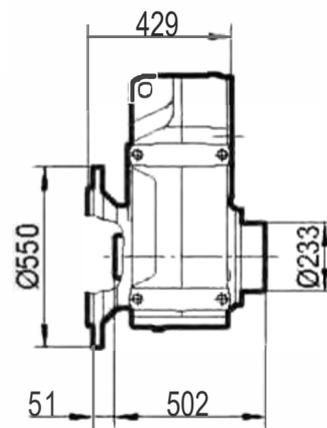
TFF127..



TFAF127..



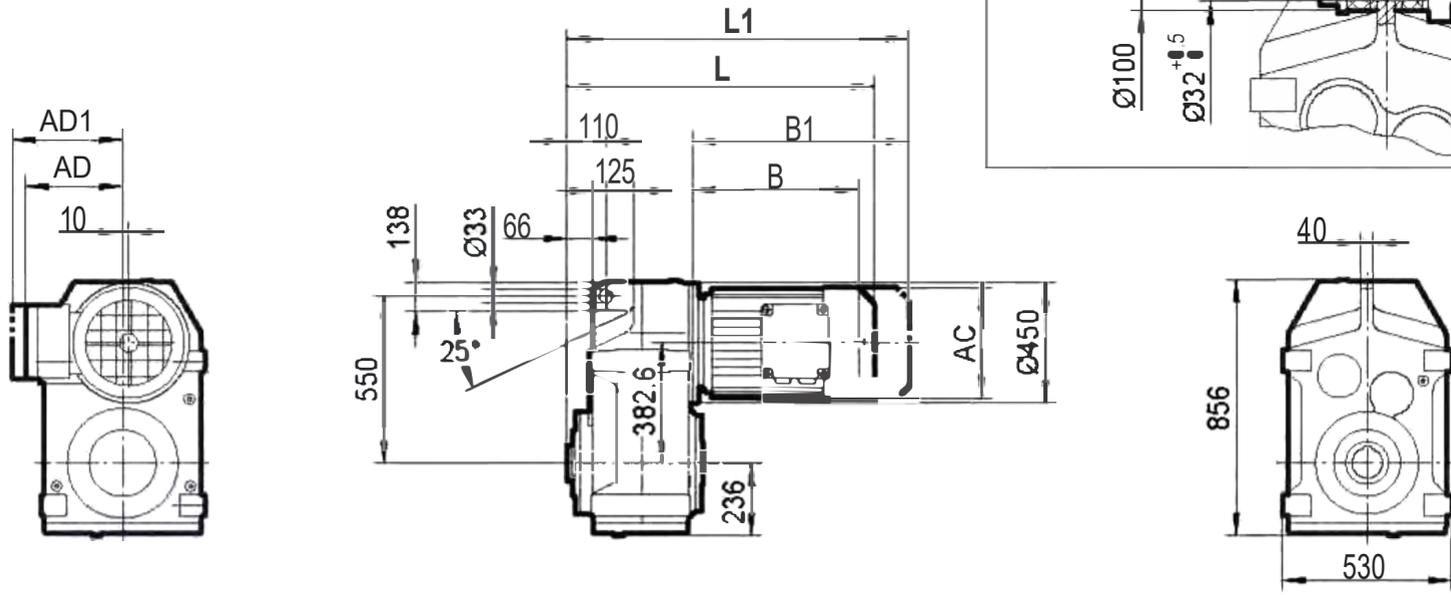
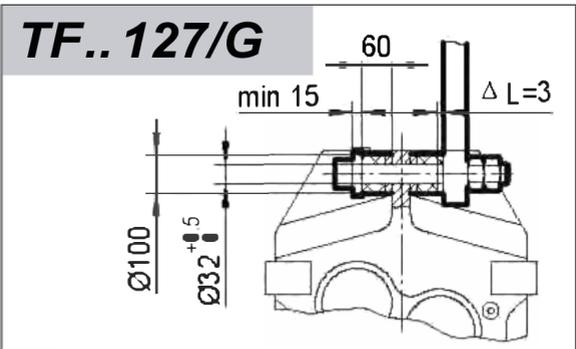
TFHF127..



	132M	132ML	160M	160L	180..	200 ..	25..	250M	280..		
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		

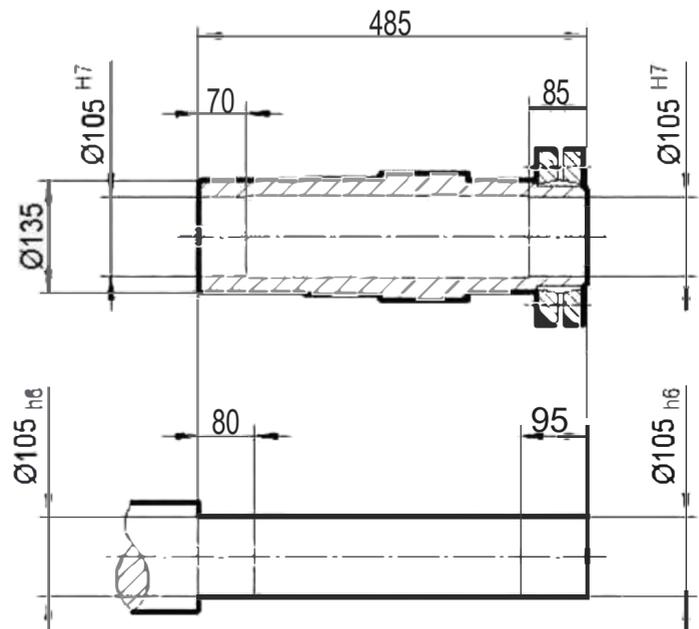
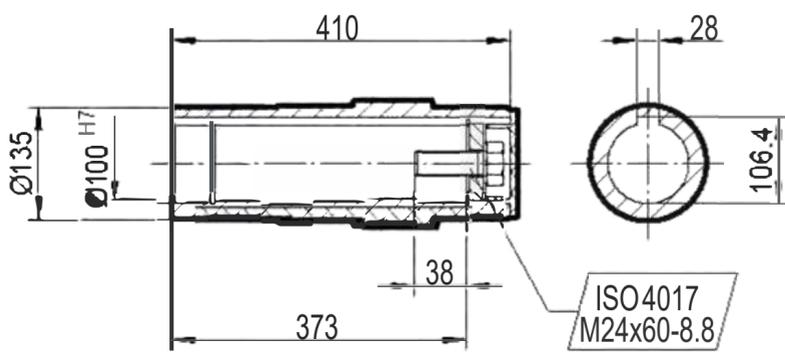
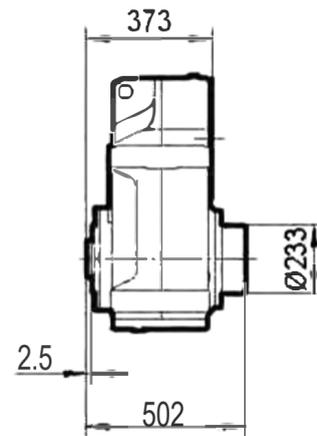
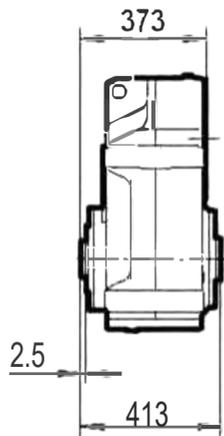
OUTLINE DIMENSION SHEET

TFA127..



TFA127..

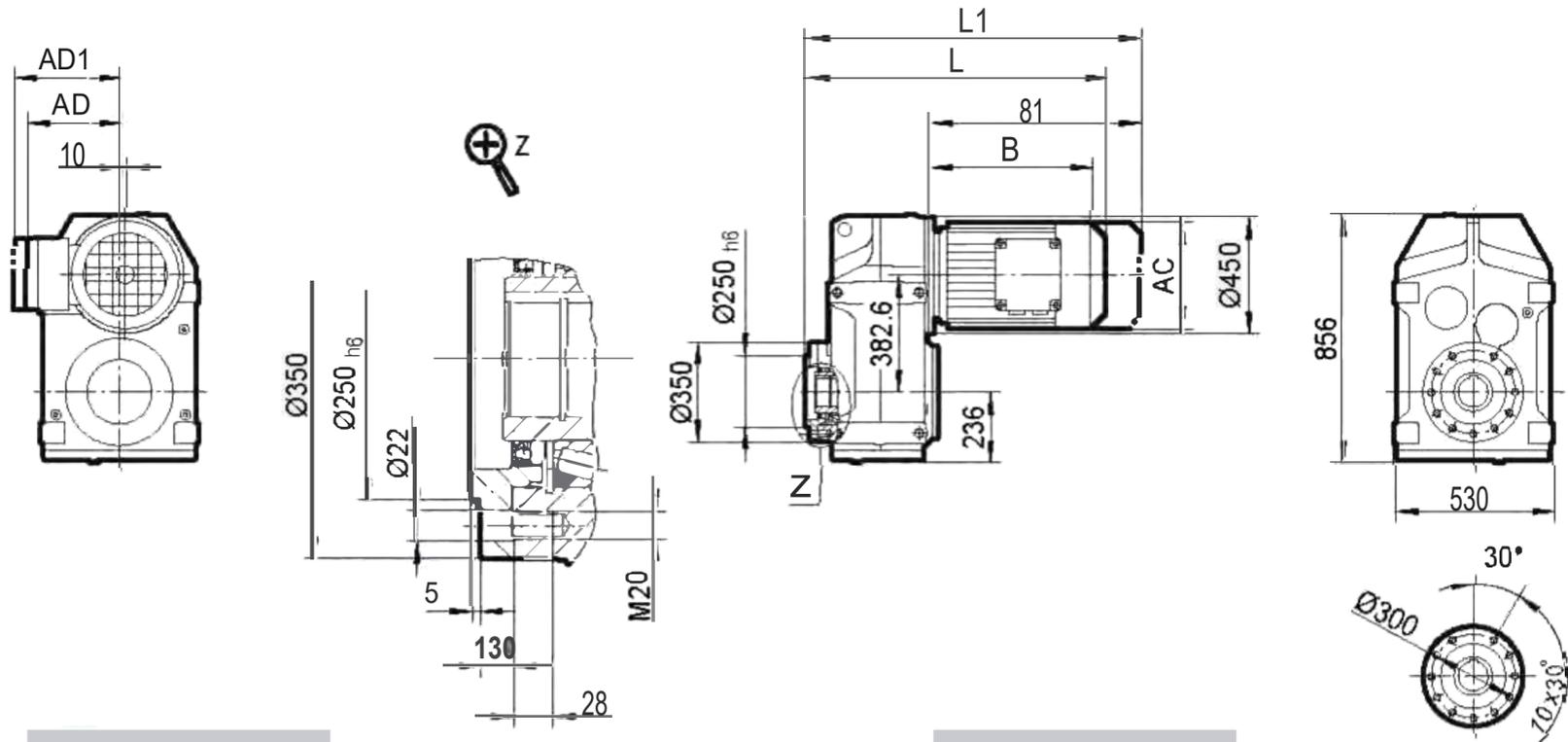
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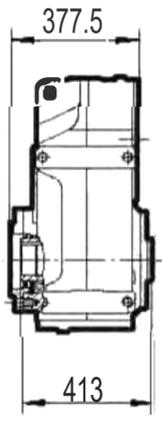
	132M	132ML	160M	160L	180..	200 ..	225..	250M	280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	754	814	814	861	933	981	1063	1153	1153		
L1	866	926	926	1017	1089	1137	1219	1338	1338		

OUTLINE DIMENSION SHEET

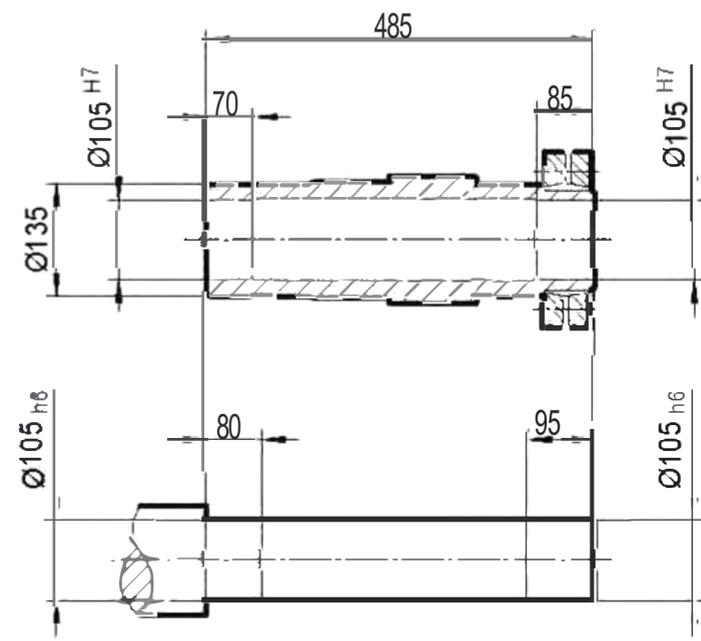
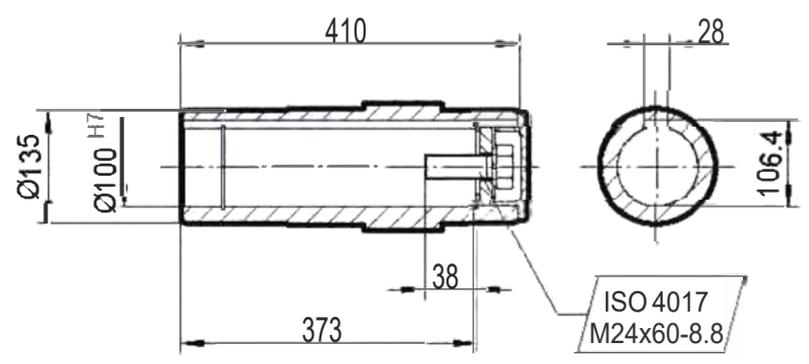
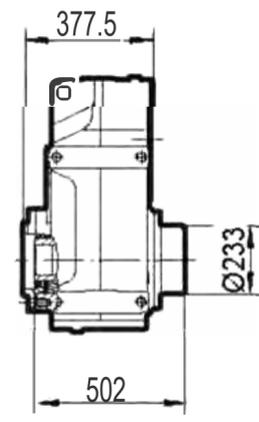
TFAZ127..



TFAZ127..



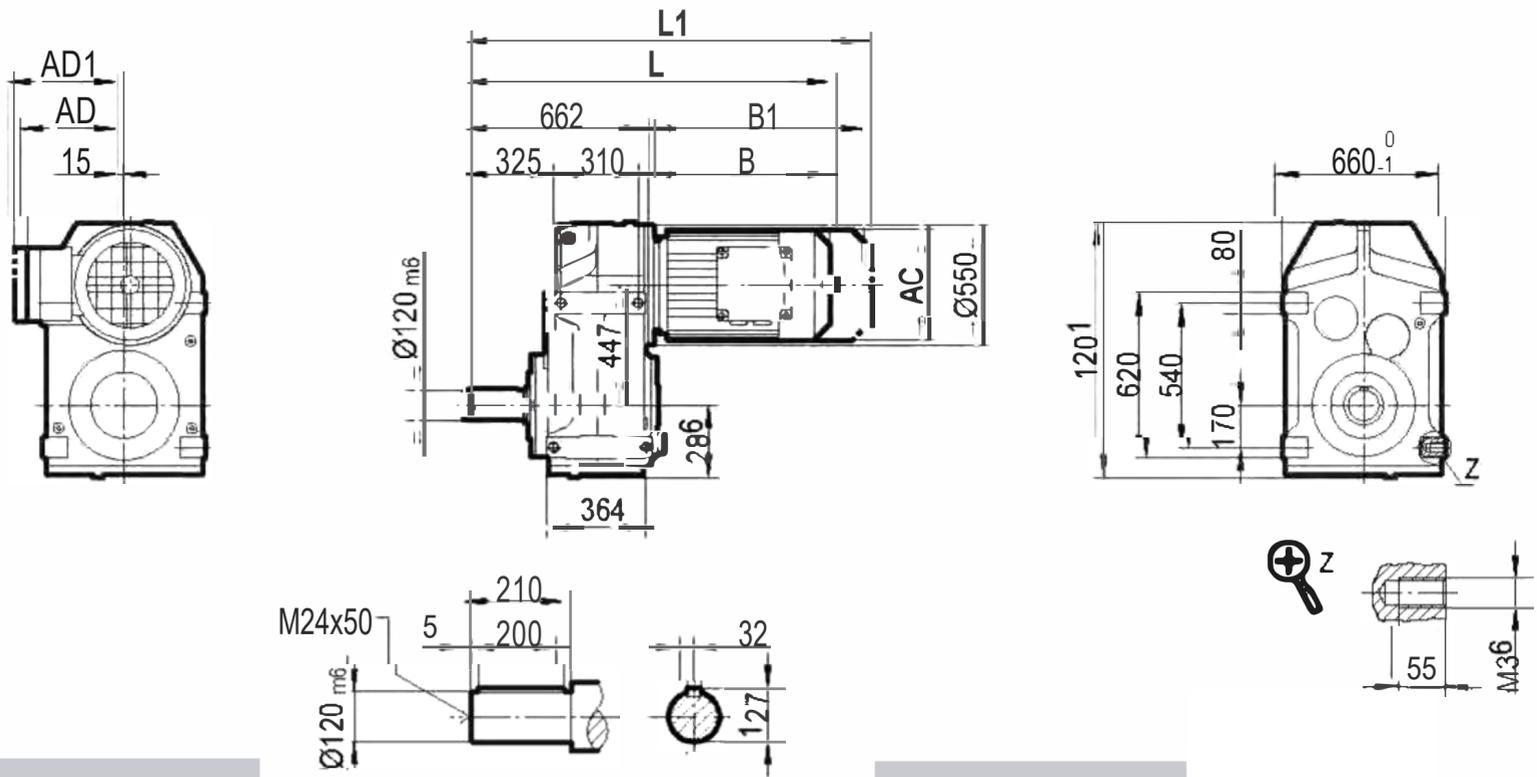
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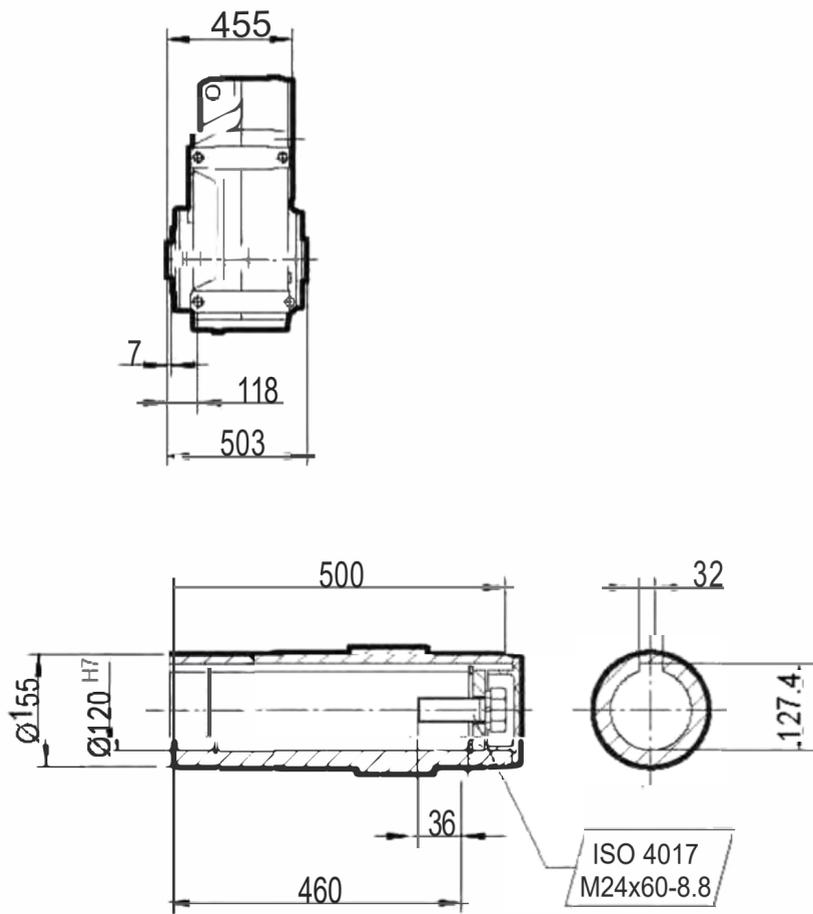
	132M	132ML	160M	160L	180 ..	200 ..	225..	250M	280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	759	819	819	866	938	986	1068	1158	1158		
L1	871	931	931	1022	1094	1142	1224	1342	1342		

OUTLINE DIMENSION SHEET

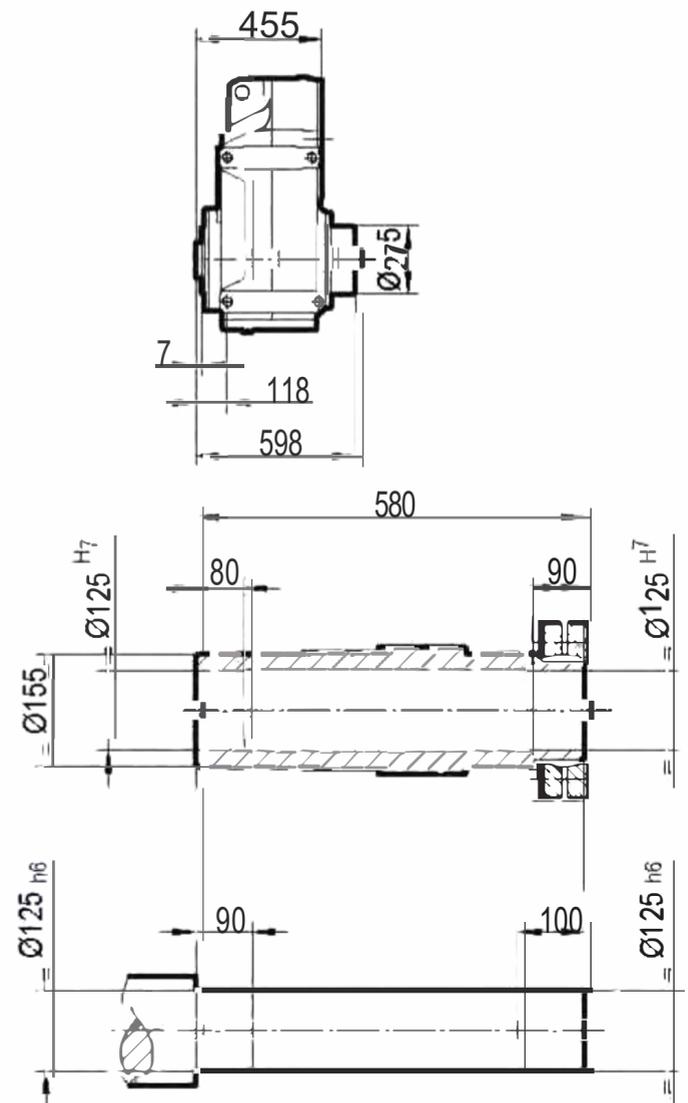
TF157..



TFA157B..



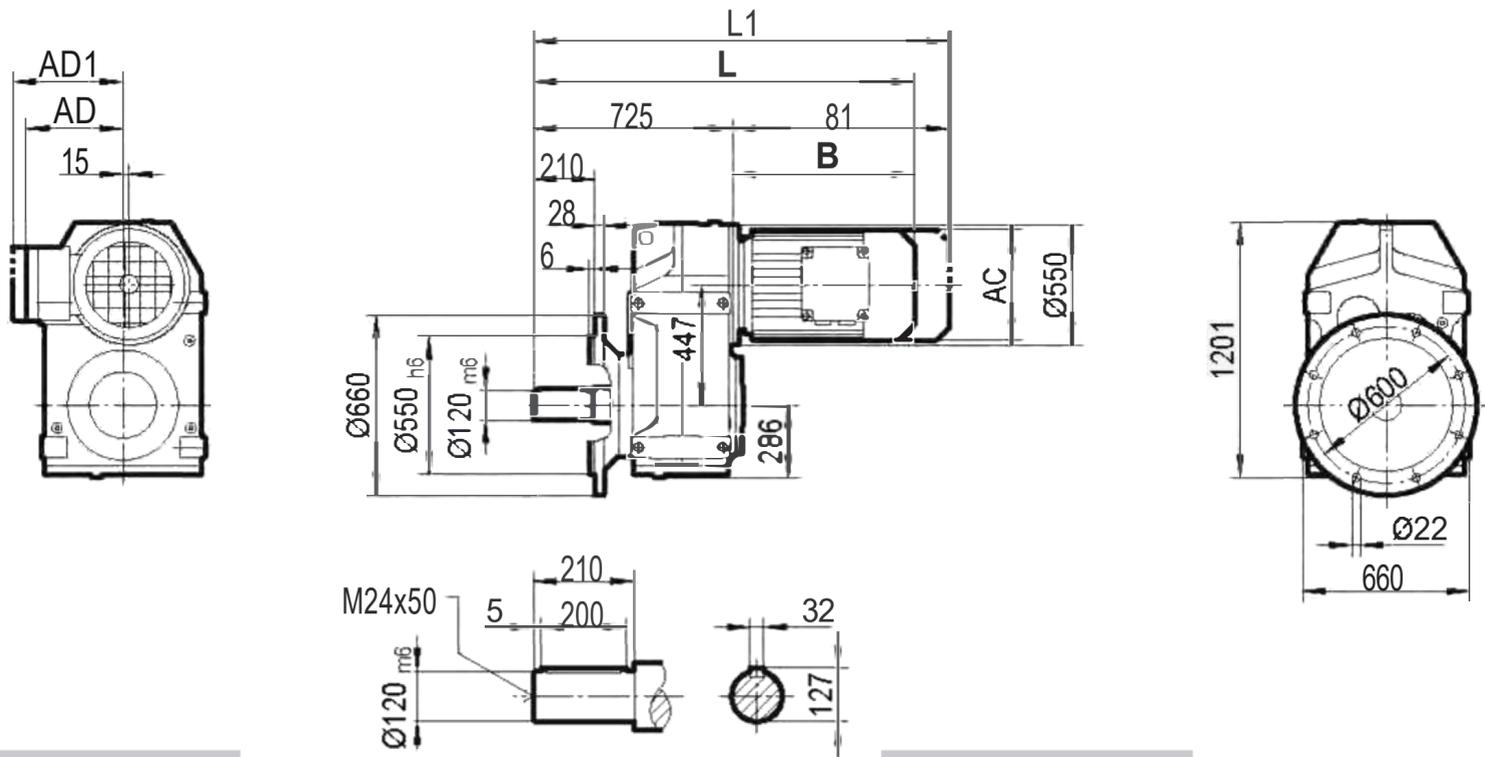
TFH157B..



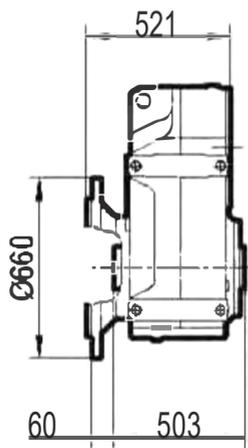
	160M	160L	180..	200..	225..	250M	280 ..	315S	315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1095	1142	1214	1262	1344	1433	1433	1661	1712		
L1	1207	1298	1370	1418	1500	1618	1618	1872	1923		

OUTLINE DIMENSION SHEET

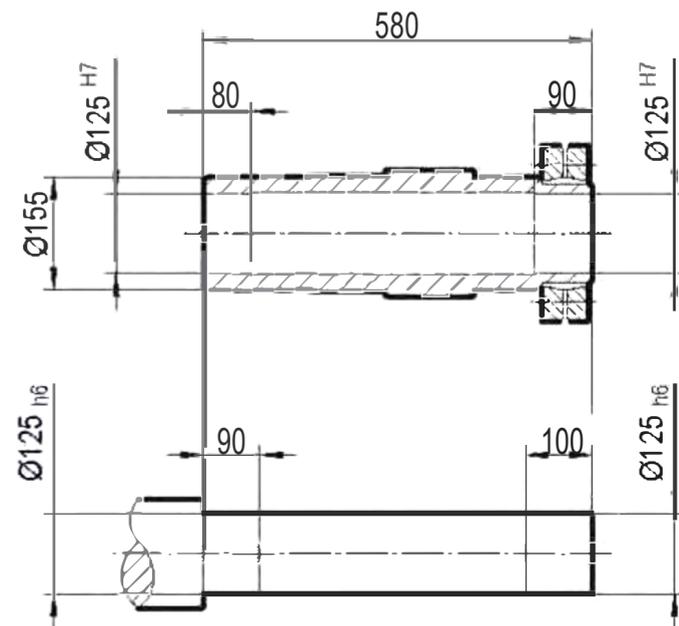
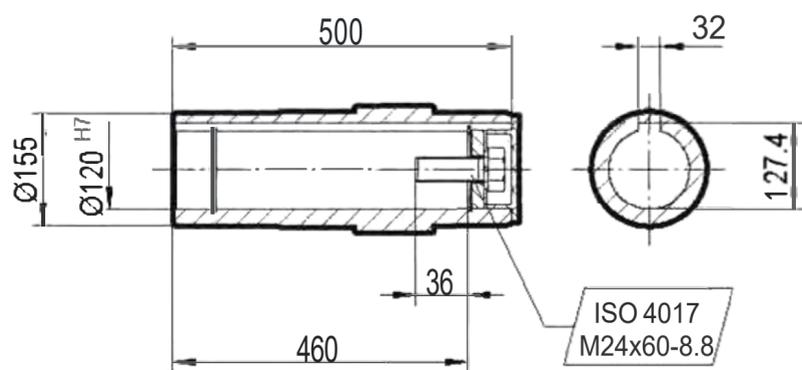
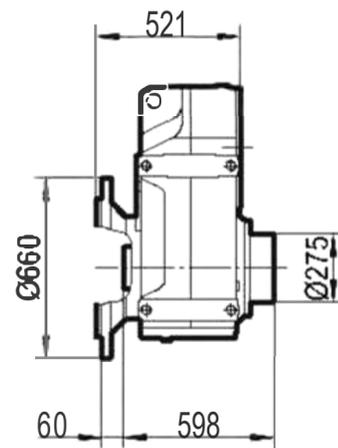
TFF157..



TFAF157..



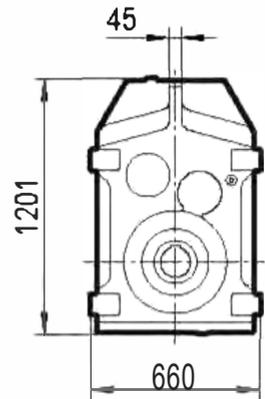
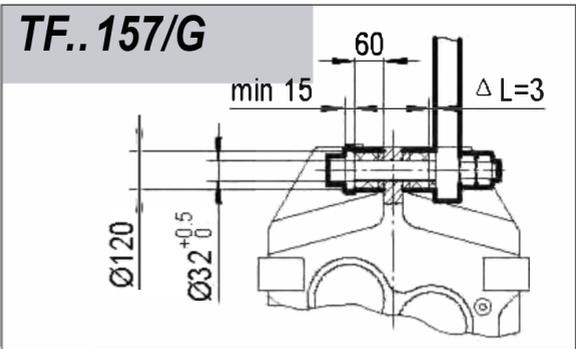
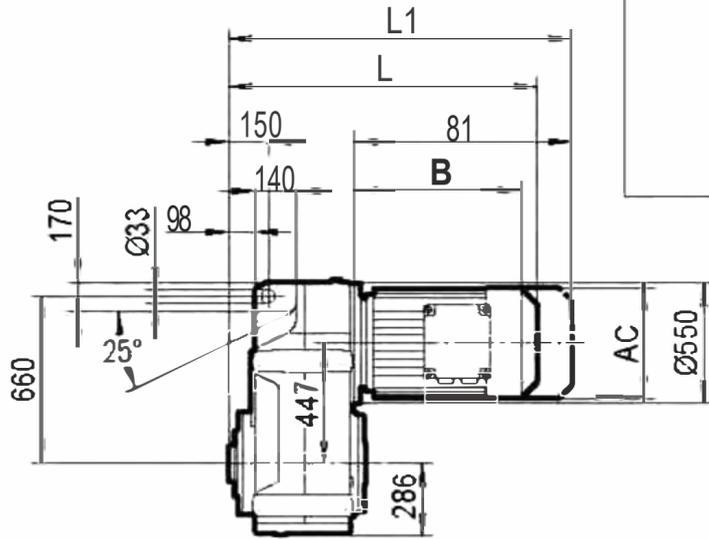
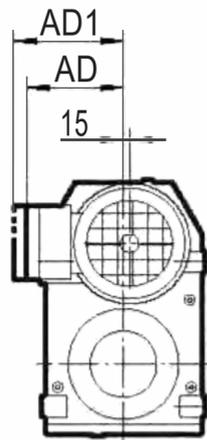
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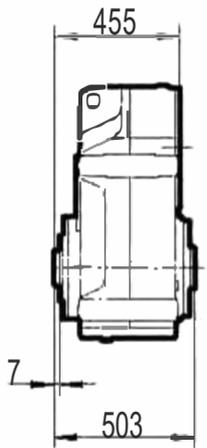
	160M	160L	180..	200..	225..	250M	280..	315S	315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1158	1205	1277	1325	1407	1496	1496	1724	1775		
L1	1270	1361	1433	1481	1563	1681	1681	1935	1986		

OUTLINE DIMENSION SHEET

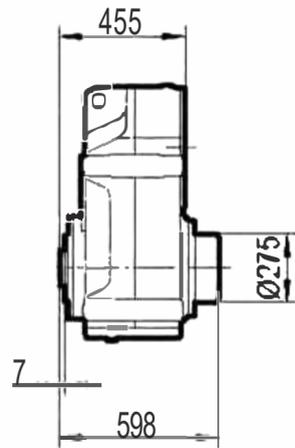
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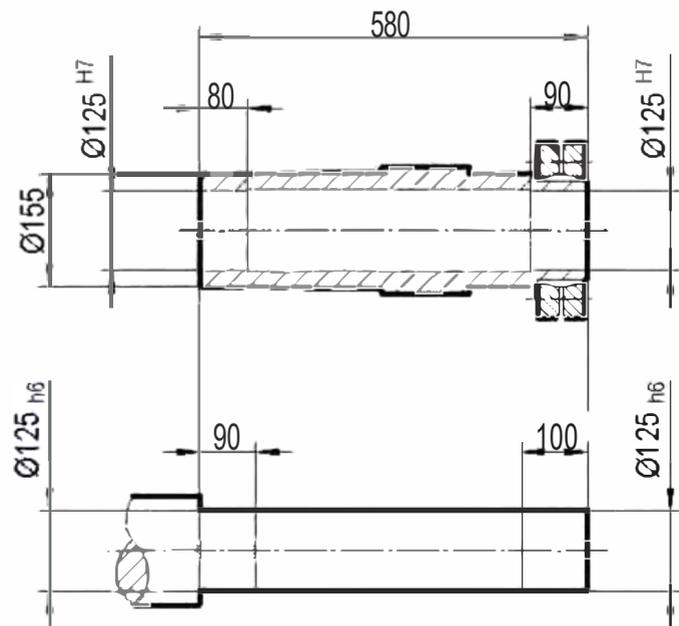
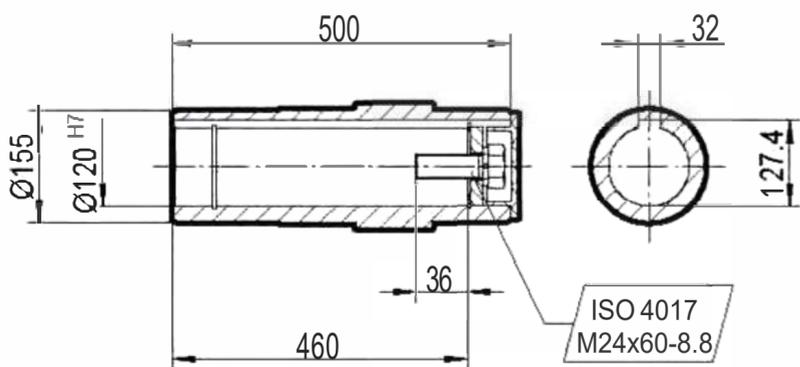
TFA157..



TFH157 ..



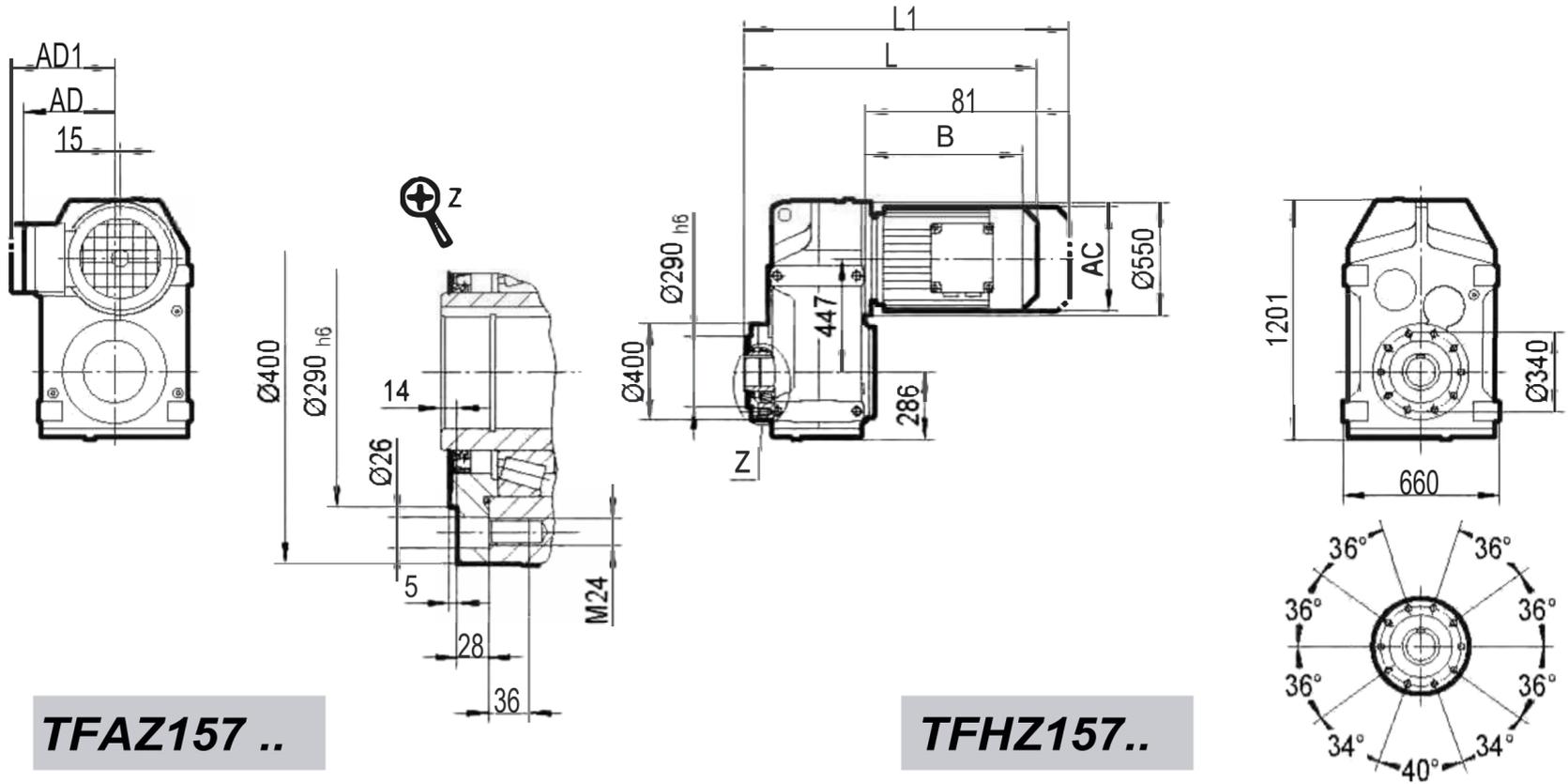
TF../TRF../MY..



	160M	160L	180..	200..	225..	250M	280 ..	315S	315M		
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		

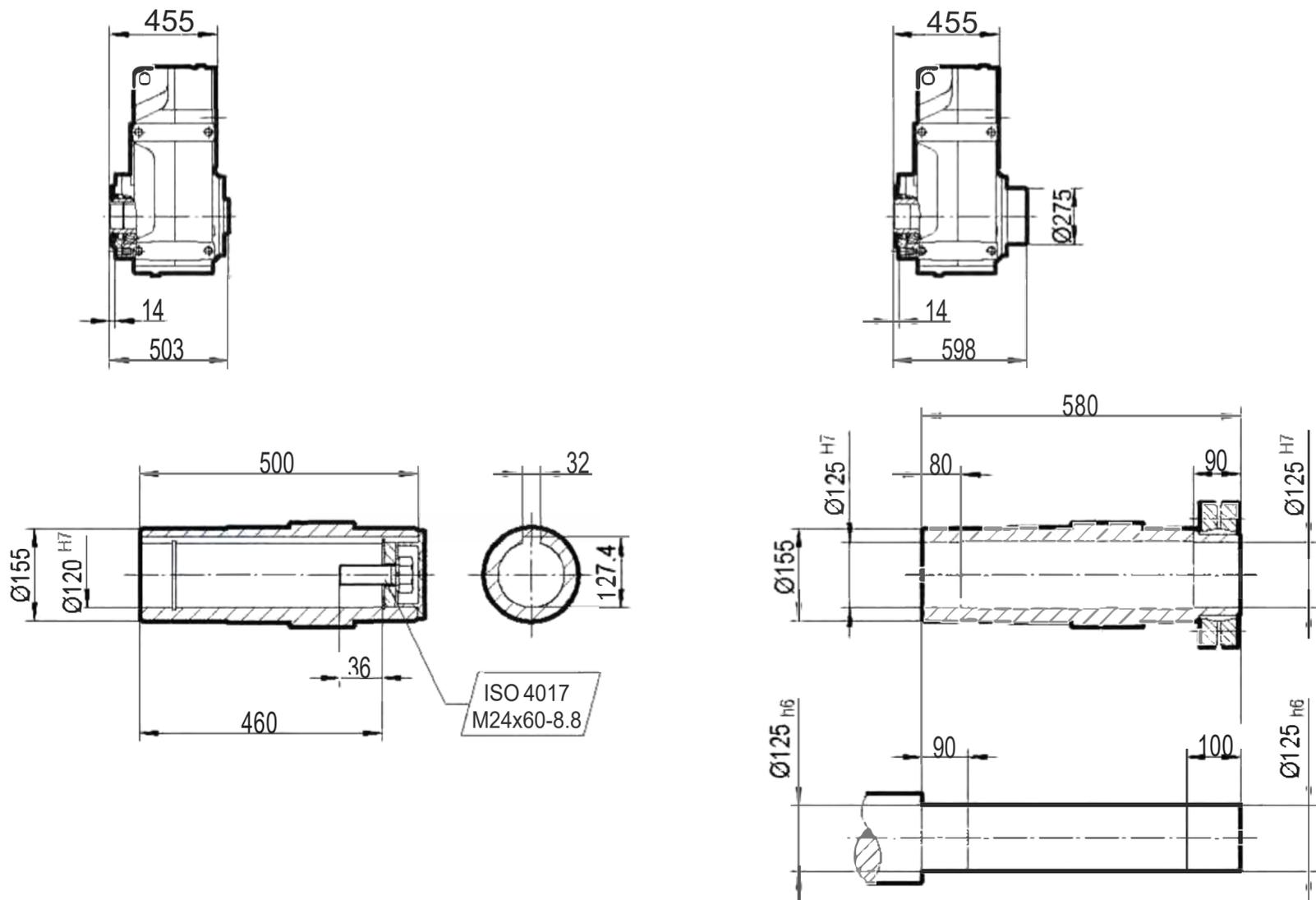
OUTLINE DIMENSION SHEET

TFAZ157..



TFAZ157 ..

TFHZ157..

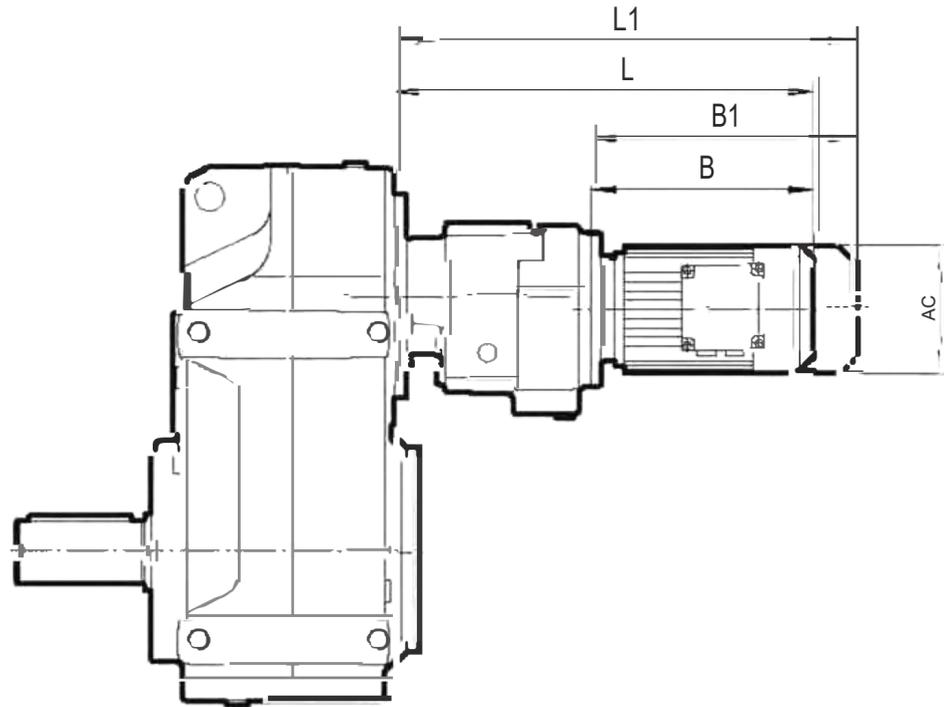


	160M	160L	180..	200..	225..	250M	280..	315S	315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	888	935	1007	1055	1137	1226	1226	1454	1505		
L1	1000	1091	1163	1211	1293	1411	1411	1665	1716		

OUTLINE DIMENSION SHEET

7.2 TF..ITRFI Outline Dimension

TF../TRF..



TF../TRF..	AM..	AC	B	B1	L	L1
TF..27/TRF17	AM63..	132	149	204	324	379
TF.. 37/TRF17	AM71D	145	164	228	339	403
TF..47/TRF17	AM80..	145	214	278	389	453
TF.. 57/TRF37	AM63..	132	191	246	356	411
	AM710	145	206	270	371	435
	AM80..	145	256	320	421	485
TF..67/TRF37	AM63..	132	191	246	356	411
	AM710	145	206	270	371	435
	AM80..	145	256	320	421	485
	AM90..	197	276	361	441	526
TF..77/TRF37	AM63..	132	191	246	348	403
	AM710	145	206	270	363	427
	AM80..	145	256	320	413	477
TF..87/TRF57	AM90..	197	276	361	433	518
	AM63..	132	185	240	401	456
	AM710	145	199	263	415	479
	AM80..	145	249	313	465	529
	AM90..	197	269	354	485	570
	AM100M	197	319	404	535	620
	AM100L	197	349	434	565	650
TF..97/TRF57	AM63..	132	185	240	396	451
	AM710	145	199	263	410	474
	AM80..	145	249	313	460	524
	AM90..	197	269	354	480	565
	AM100M	197	319	404	530	615
	AM100L	197	349	434	560	645
	AM112M	221	354	434	565	645
	AM63..	132	179	234	426	481
	AM71D	145	193	257	440	504
	AM80..	145	243	307	490	554
TF..107/TRF77	AM90..	197	261	346	508	593
	AM100M	197	311	396	558	643
	AM100L	197	341	426	588	673
	AM112M	221	345	425	592	672
	AM132S	221	390	470	637	717
	AM132M	275	412	524	659	771
	AM132M	275	472	584	719	831
	AM160M	275	472	584	719	831

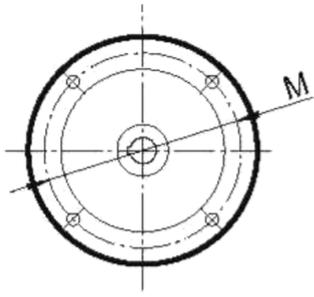
TF../TRF..	AM..	AC	B	B1	L	L1
TF..127/TRF77	AM 63..	132	179	234	411	466
	AM71D	145	193	257	425	489
	AM80 ..	145	243	307	475	539
	AM90..	197	261	346	493	578
	AM100M	197	311	396	543	628
	AM100L	197	341	426	573	658
	AM112M	221	345	425	577	657
	AM132S	221	390	470	622	702
	AM132M	275	412	524	644	756
	AM132ML	275	472	584	704	816
	AM160M	275	472	584	704	816
TF..127/TRF87	AM90 ..	197	257	342	537	622
	AM100M	197	307	392	587	672
	AM100L	197	337	422	617	702
	AM112M	221	340	420	620	700
	AM132S	221	385	465	665	745
	AM132M	275	407	519	687	799
	AM132ML	275	467	579	747	859
	AM160M	275	467	579	747	859
	AM160L	331	514	670	794	950
	AM180..	331	586	742	866	1022
TF..157/TRF97	AM80..	145	231	295	556	620
	AM90 ..	197	251	336	576	661
	AM100M	197	301	386	626	711
	AM100L	197	331	416	656	741
	AM112M	221	335	415	660	740
	AM132S	221	380	460	705	785
	AM132M	275	402	514	727	839
	AM132ML	275	462	574	787	899
	AM160M	275	462	574	787	899
	AM160L	331	509	665	834	990
	AM180..	331	581	737	906	1062
AM200..	394	629	785	954	1110	

OUTLINE DIMENSION SHEET

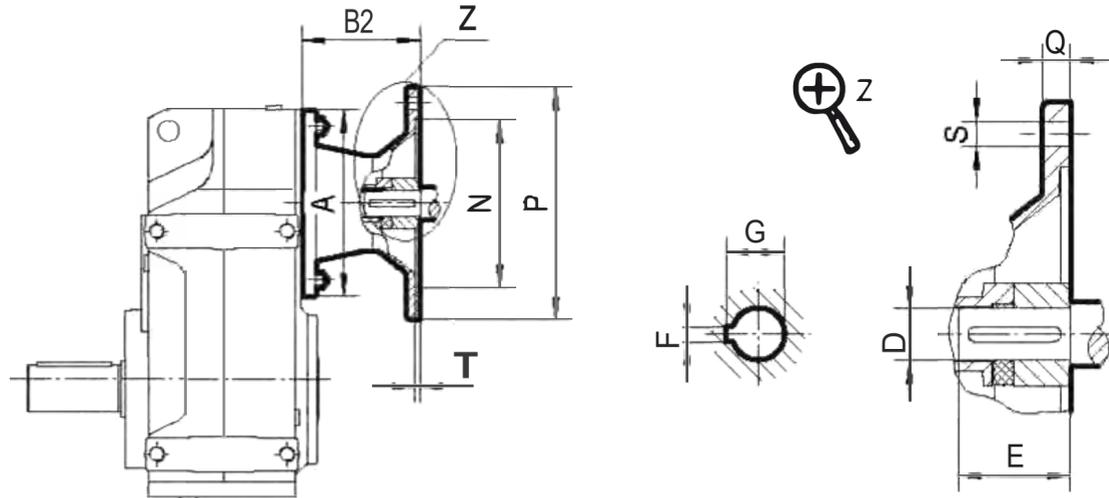
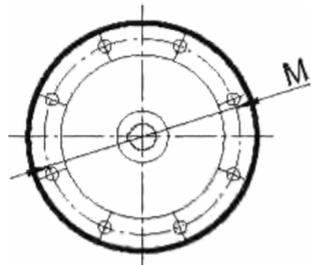
7.3 TF..AM(IEC)..Outline Dimension

TF..AM(IEC)..

Flange.1



Flange.2



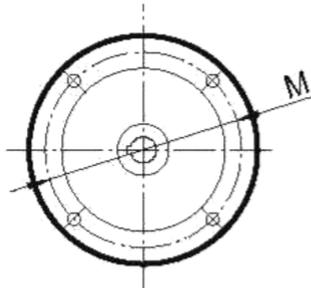
TF..	AM..	Flange.	A	82	D	E	F	G	M	N	p	Q	S	T
TF..27 TF..37 TF..47	AM63	1	120	72	11	23	4	12.8	115	95	140	10	4 Ø9	3.5
	AM71 ¹⁾			14	30	5	16.3	130	110	160				
	AM80 ¹⁾			19	40	6	21.8	165	130	200	12	4-Ø11	4.5	
	AM90 ¹⁾			24	50	8	27.3							
TF..57 TF..67	AM63	1	160	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
	AM71			14	30	5	16.3	130	110	160				
	AM80			19	40	6	21.8	165	130	200	12	4-Ø11	4.5	
	AM90			24	50	8	27.3							
	AM100 ¹⁾ AM112 ¹⁾ AM132S/M ¹⁾			134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
TF..77	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			19	40	6	21.8	165	130	200	12	4-Ø11	4.5	
	AM90			24	50	8	27.3							
	AM100 ¹⁾ AM112 ¹⁾ AM132S/M ¹⁾			126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
	AM132ML ¹⁾			179	38	80	10	41.3	265	230	300	16		
TF..87	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			174	38	80	10	41.3	265	230	300	16		
	AM132ML													
	AM160 ¹⁾ AM180 ¹⁾			232	42 48	110	12 14	45.3 51.8	300	250	350	18	4-Ø17.5	6

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

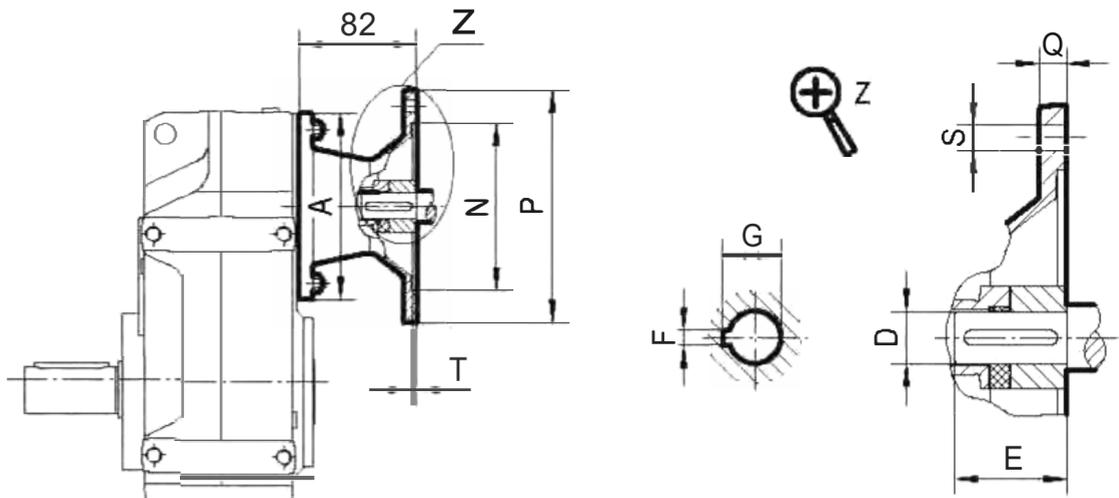
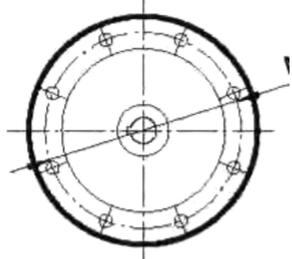
OUTLINE DIMENSION SHEET

TF..AM(IEC)..

Flange.1



Flange.2

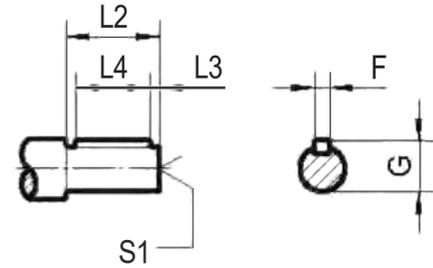
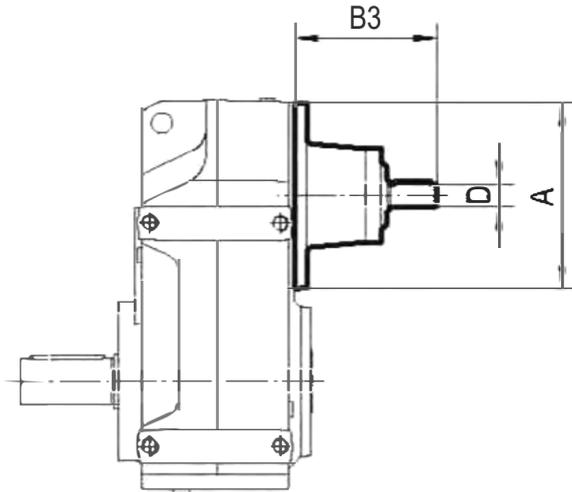
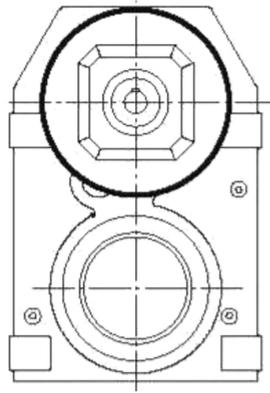


TF..	AM ..	Flange.	A	B2	D	E	F	G	M	N	p	Q	s	T									
TF..97	AM100	1	300	116	28	60	8	31.3	215	180	250	15	4-Ø13.5	5									
	AM112			169	38	80	10	41.3	265	230	300	16											
	AM132S/M												227	42	110	12	45.3	300	250	350	18		
	AM132ML			268	55	16	59.3	350	300	400	20												
AM160	2	350	110									110	14	51.8	16	59.3	350	300	400	20	4-Ø17.5	6	
AM180				221	42	110	12	45.3	300	250	350												18
AM200																							
AM225	277	60	140	18	64.4	400	350	450	22	8-Ø17.5	7												
TF..107												AM100	1	350	110	28	60	8	31.3	215	180	250	15
	AM112	163	38	80	10	41.3	265	230	300	16													
	AM132S/M										221	42			110	12	45.3	300	250	350	18		
	AM132ML	262	55	16	59.3	350	300	400	20														
	AM160									2	450	110	14	51.8	16	59.3	350	300	400	20	4-Ø17.5	6	
	AM180	206	42	110	12	45.3	300	250	350														18
AM200	247																						
AM225		262	60	140	18	64.4	400	350	450	22	8-Ø17.5	7											
AM250	336												65	140	20	79.9	500	450	550	25			
AM280		328	75	140	20	79.9	500	450	550	25													
TF..127	AM132S/M										1	450	148	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
	AM132ML	206	42	110	12	45.3	300	250	350	18													
	AM160												247	55	16	59.3	350	300	400	20			
	AM180	262	60	140	18	64.4	400	350	450	22													
	AM200										336	65	140	20	79.9	500	450	550	25				
	AM225	328	75	140	20	79.9	500	450	550	25													
AM250	328										75	140	20	79.9	500	450	550	25					
AM280		328	75	140	20	79.9	500	450	550	25													
TF..157	AM160										1	550	198	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
	AM180	239	55	16	59.3	350	300	400	20														
	AM200									254			60	18	64.4	400	350	450	22				
	AM225	328	75	140	20	79.9	500	450	550											25			
	AM250									328	75	140	20	79.9	500	450	550	25					
	AM280	328	75	140	20	79.9	500	450	550										25				

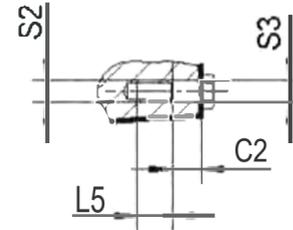
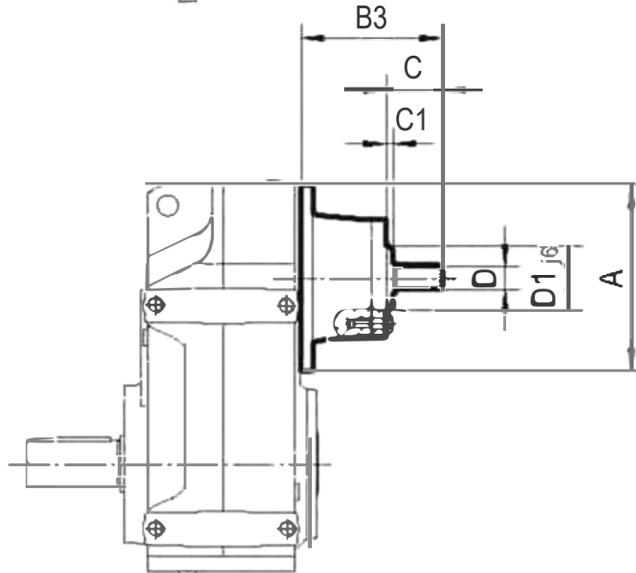
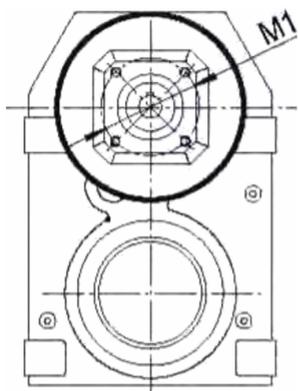
OUTLINE DIMENSION SHEET

7.4 TF..AD..Outline Dimension

TF..AD..



TF..AD../ZR



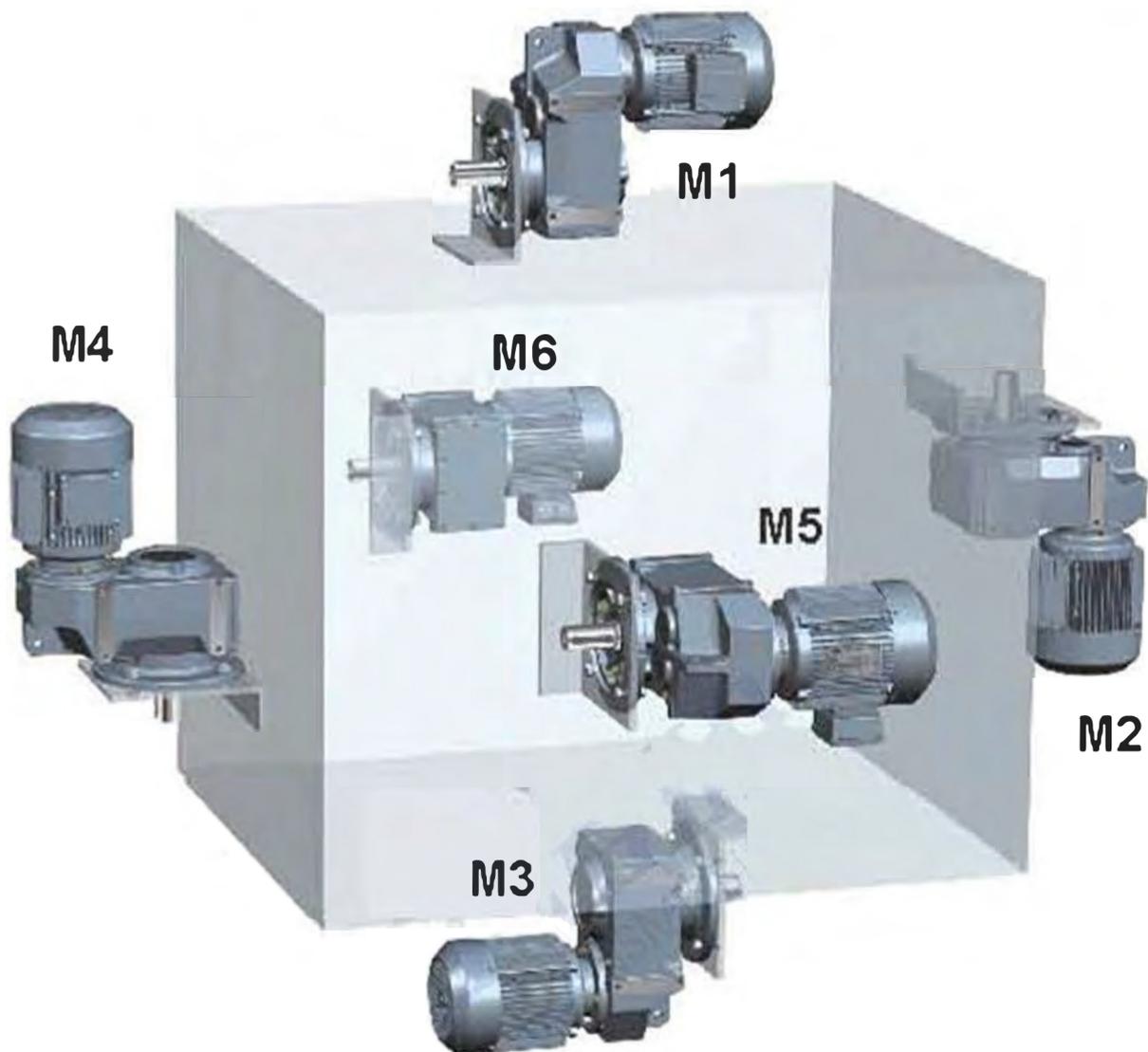
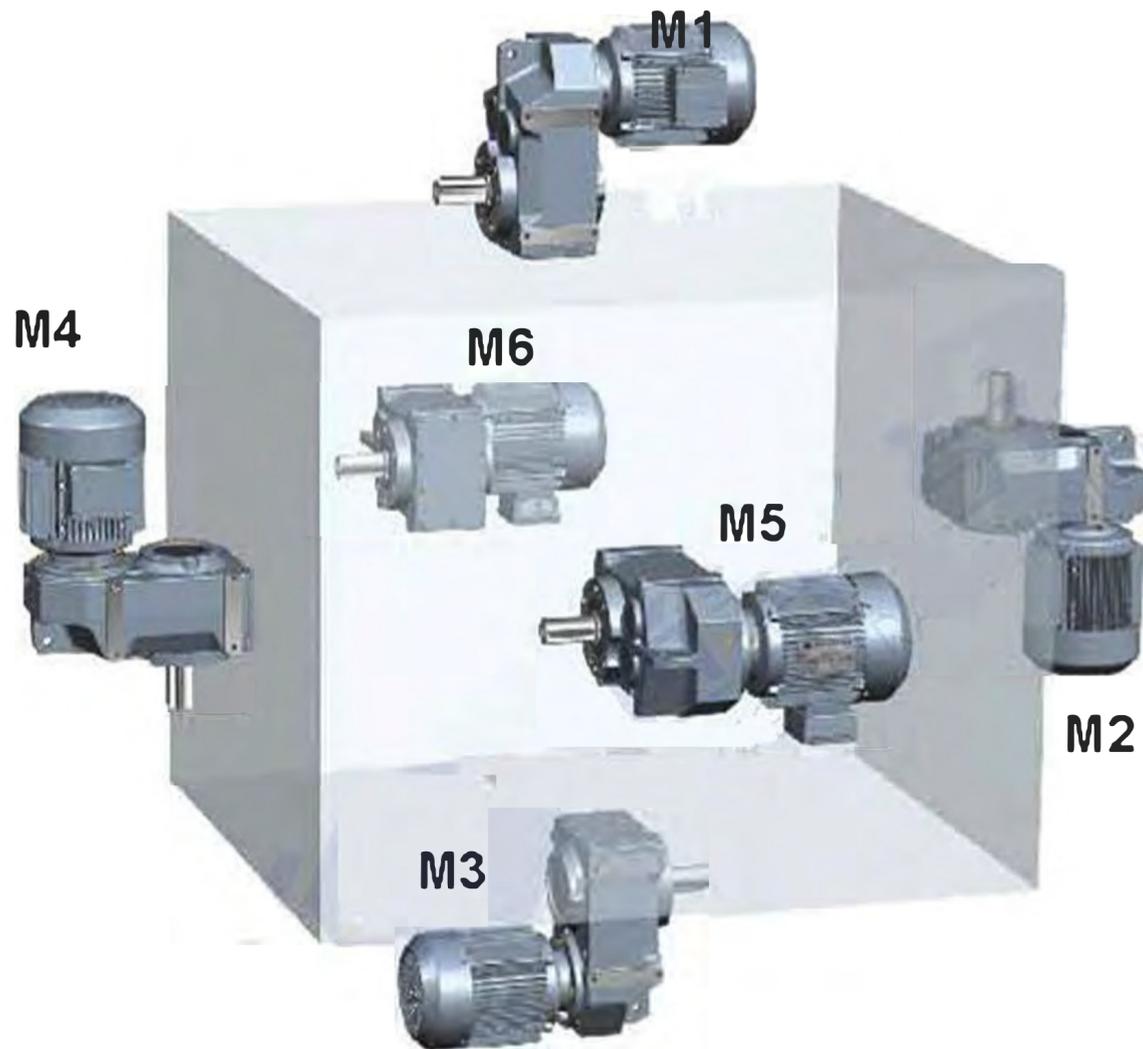
TF..	AD..	A	83	C	C1	C2	D	01	F	G	L2	L3	L4	L5	M1	S1	S2	S3
TF..27	AD1	120	102	-	-	-	16	-	5	18	40	4	32	-	-	M5X12.5	-	-
TF..37	AD2, AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	MB	9
TF..47																		
TF..57	AD2, AD2/ZR	160	123	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	MB	9
TF..67	AD3, AD3/ZR		159	60	8	15.5	24	70	8	27	50	5	40	16	105	M8X19	M10	11
TF..77	AD2, AD2/ZR	200	116	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	MB	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..87	AD2, AD2/ZR	250	111	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	MB	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..97	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..107	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..127	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..157	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

8.2 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..

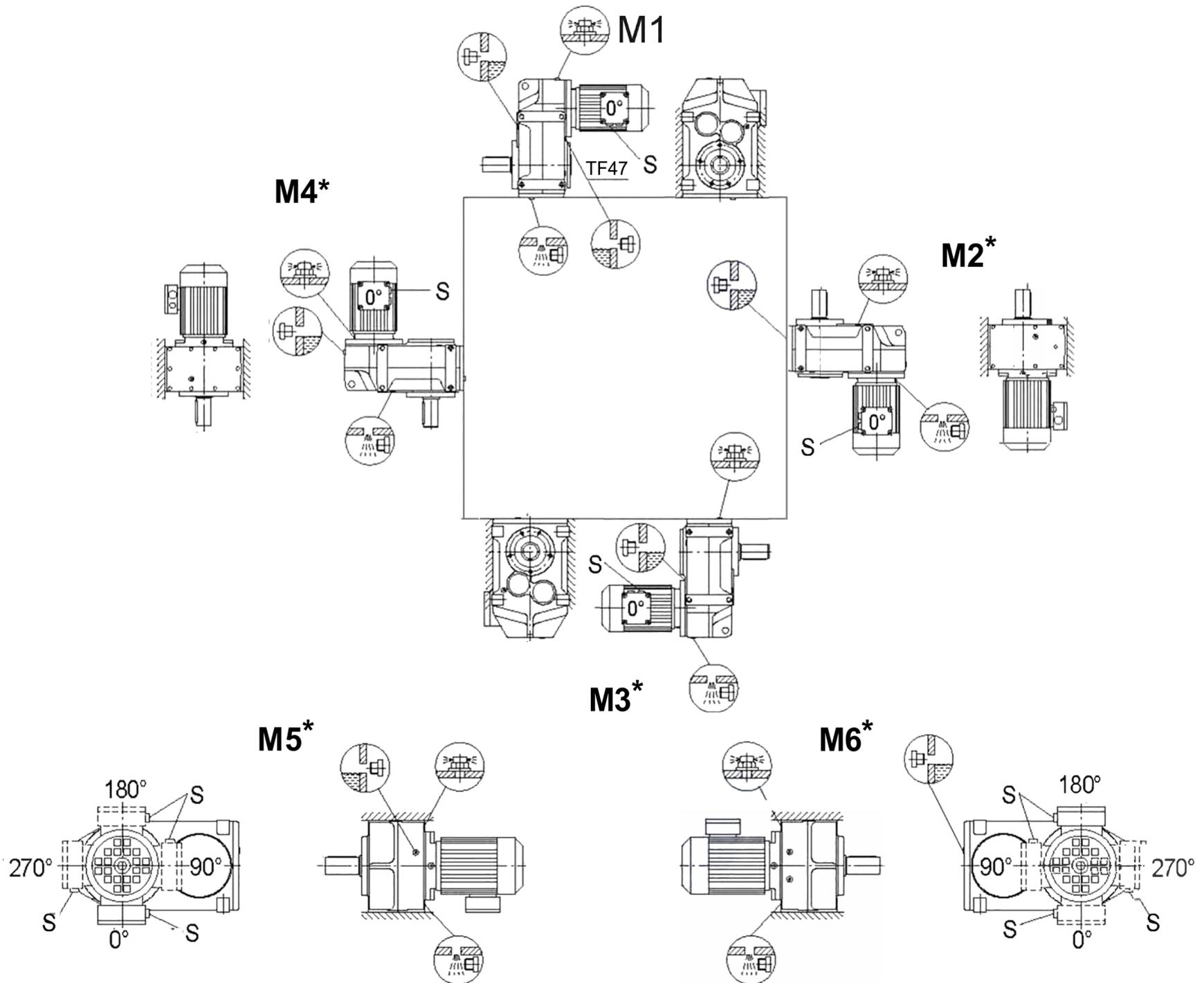
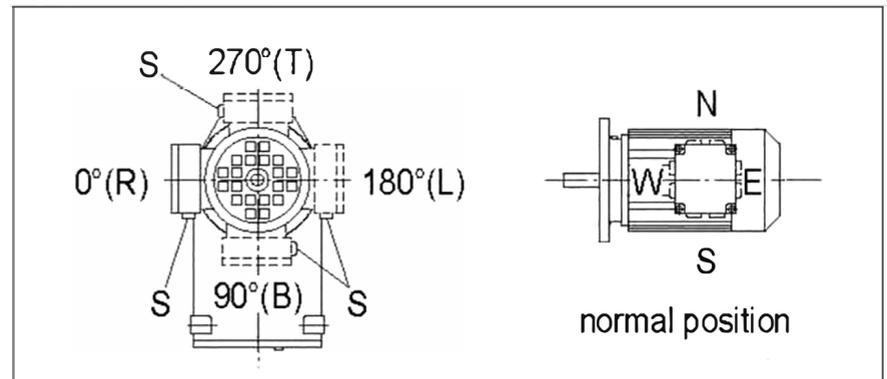


MOUNTING POSITIONS

Mounting positions for parallel shaft helical gearmotors

TF/TFF..B/TFH27B-157B, TFV27B-107B

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

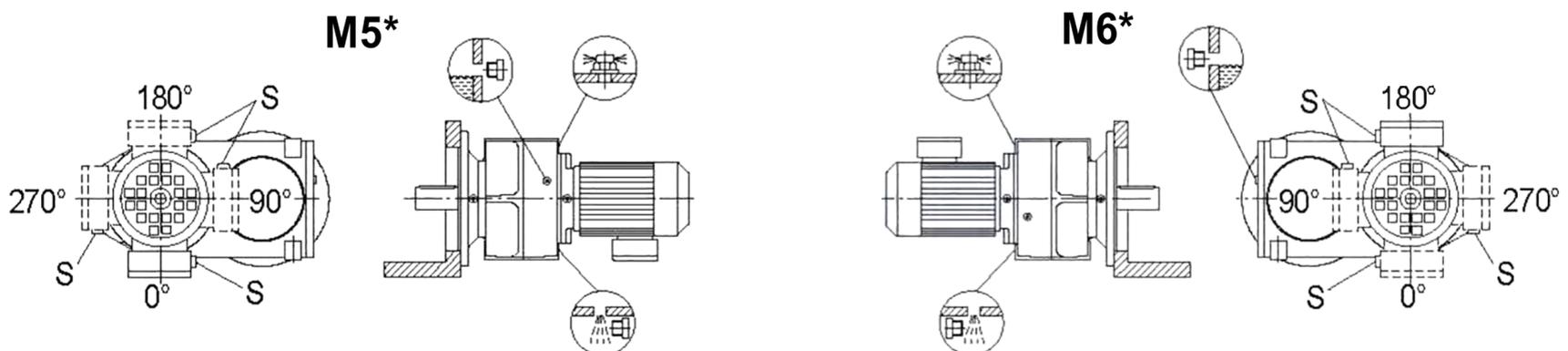
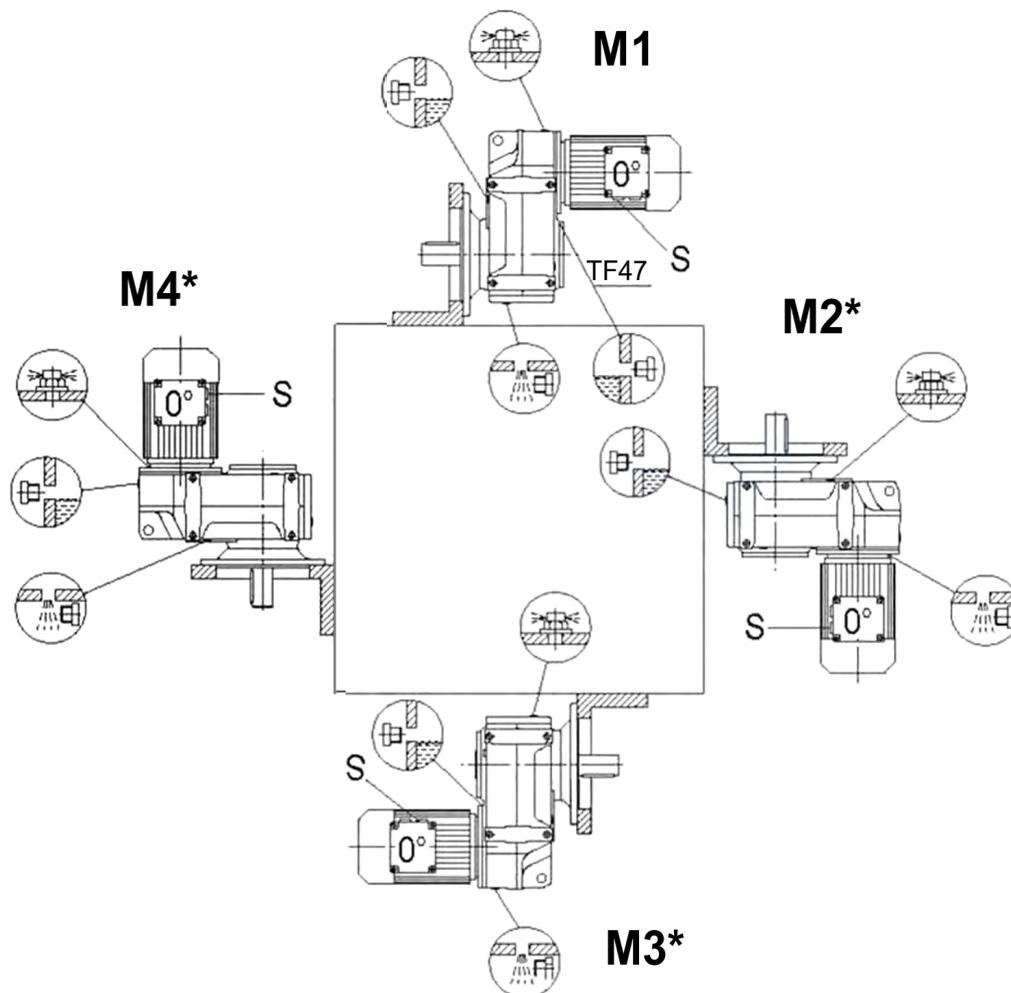
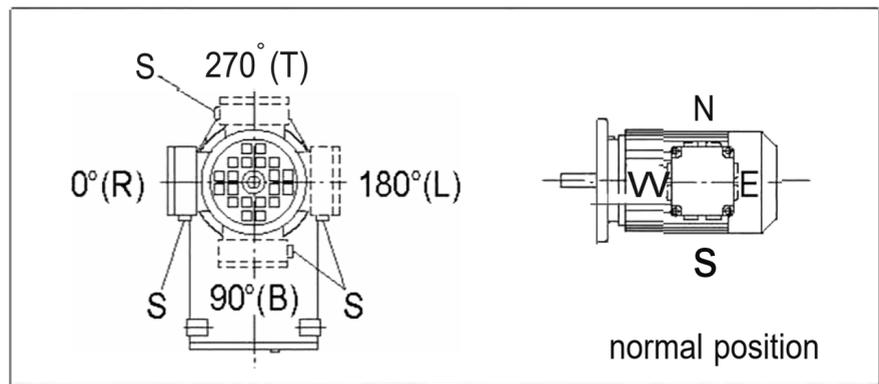
TF27		M1, M3, M5, M6
TF27		M1-M6
TF27		M1, M3, M5, M6

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

MOUNTING POSITIONS

TFF/TFAF/TFHF/TFAZ/TFHZ27-157, TFVF/TFVZ27-107

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

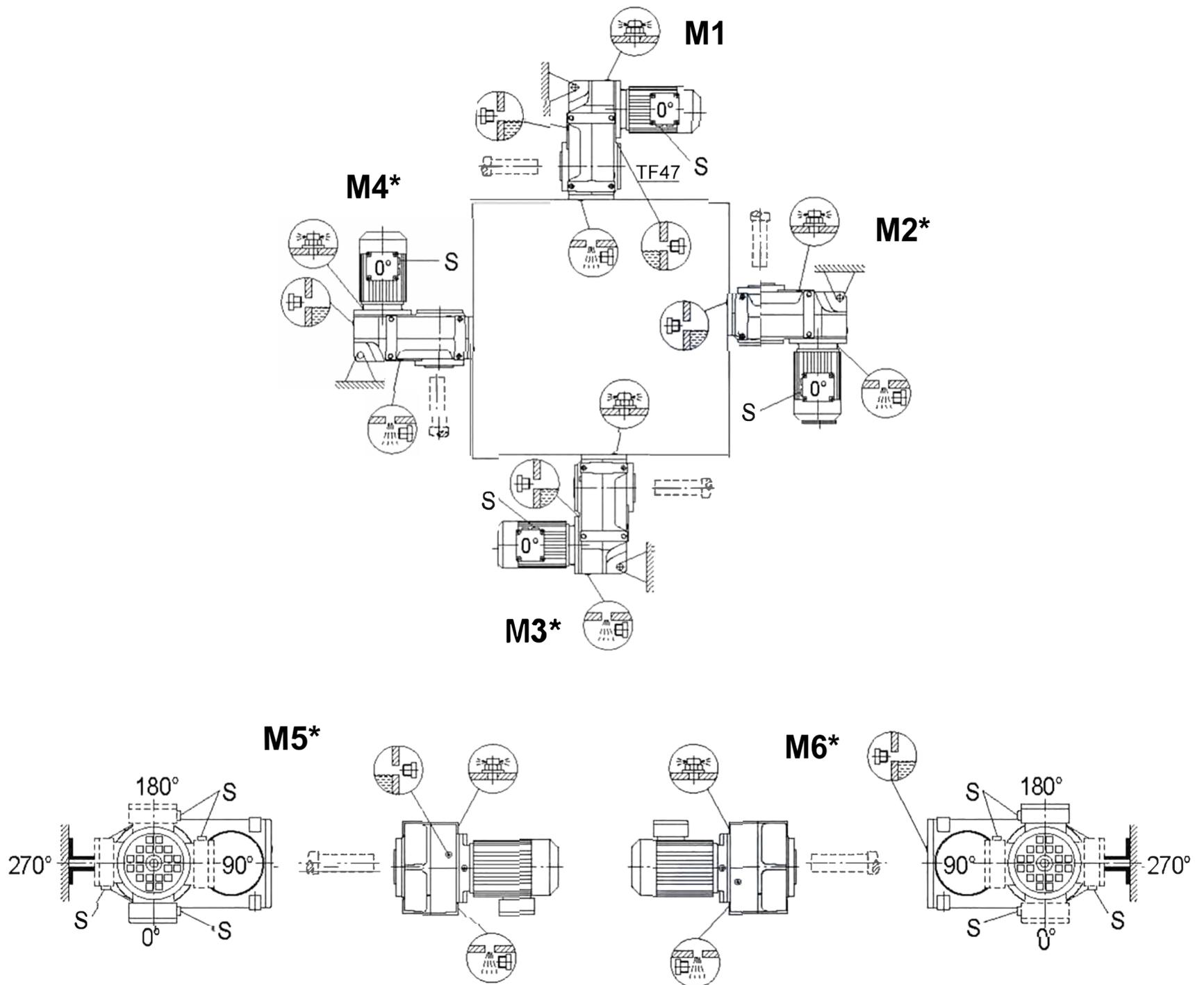
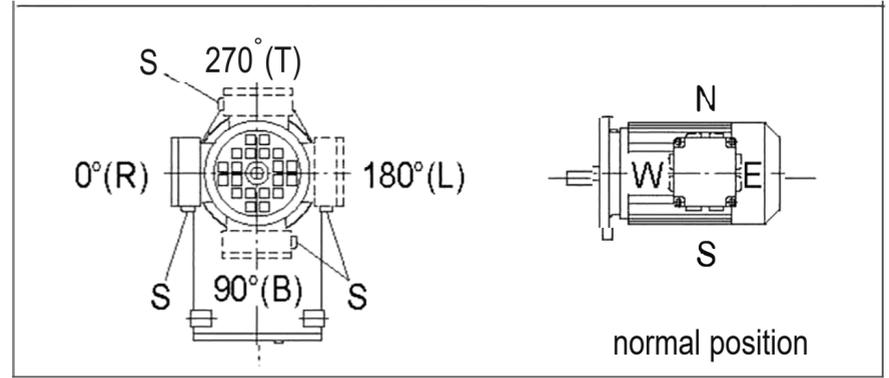
TF27		M1, M3, M5, M6
TF27		M1-M6
TF27		M1, M3, M6, M6

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

MOUNTING POSITIONS

TFF/TFH27-157, TFFV27-107

Symbol	Meaning
	Breathe 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

TF27		M1, M3, M5, M6
TF27		M1-M6
TF27		M1, M3, M5, M6

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

MOUNTING POSITIONS/INSTALLATION METHODS

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:

- Check if the data on the nameplates of the gearmotor matches the voltage supply system.
- Check if the drive has not been damaged during transportation and storage.
- For standard gear unit, the ambient temperature must be in accordance with the corresponding lubricant table.
- The drive must not be assembled in conditions such as oil, gas, vapors, acids, radiation and so on.
- 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!
- The supporting structure must have the following characteristics: level, vibration damping and torsionally rigid.
- 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:

- 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.
- 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.
- 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.
- 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.

LUBRICANTS

10. LUBRICATION

10.1 Types of lubrication

						
	°C -50 0 +50 +100	ISO	SHELL	MOBIL	BP	
TF..	Standard -10 +40	VG220	Shell Omala 220	Mobilgear 630	BP Energol GR-XP 220	Mineral oil
	-20 +25	VG150 VG100	Shell Omala 100	Mobilgear 627	BP Energol GR-XP 100	
	-30 +10	VG 68-46	Shell Tellus T32	Mobil D.T.E. 13M		
	-40 +20	VG32 VG22	Shell Tellus T15 Shell	Mobil D.T.E. 11M	BP Energol HLP-HM 15	
	-40 +80	VG15 VG220	Omala HD220	Mobil SHC 630		Synthetic oil
	-40 +40	VG150		Mobil SHC 629		
	-40 +10	VG32		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.

LUBRICATION

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

Gear units	Fill quantity in liters (L)					
	M1	M2	M3	M4	M5	M6
TF..27	0.60	0.80	0.70	0.70	0.60	0.60
TF..37	0.95	1.25	0.70	1.25	1.00	1.10
TF..47	1.50	1.80	1.10	1.90	1.50	1.70
TF..57	2.6	3.5	2.1	3.5	2.8	2.9
TF..67	2.7	3.8	1.90	3.8	2.9	3.2
TF..77	5.9	7.3	4.3	8.0	6.0	6.3
TF..87	10.8	13.0	7.7	13.8	10.8	11.0
TF..97	18.5	22.5	12.6	25.2	18.5	20.0
TF..107	24.5	32.0	19.5	37.5	27.0	27.0
TF..127	40.5	55	34.0	61	46.5	47.0
TF..157	69	104	63	105	86	78

TFF..:

Gear units	Fill quantity in liters (L)					
	M1	M2	M3	M4	M5	M6
TFF27	0.60	0.80	0.70	0.70	0.60	0.60
TFF37	1.00	1.25	0.70	1.30	1.00	1.10
TFF47	1.60	1.85	1.10	1.90	1.50	1.70
TFF57	2.8	3.5	2.1	3.7	2.9	3.0
TFF67	2.7	3.8	1.90	3.8	2.9	3.2
TFF77	5.9	7.3	4.3	8.1	6.0	6.3
TFF87	10.8	13.2	7.8	14.1	11.0	11.2
TFF97	19.0	22.5	12.6	25.5	18.9	20.5
TFF107	25.5	32.0	19.5	38.5	27.5	28.0
TFF127	41.5	56	34.0	63	46.5	49.0
TFF157	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..27	0.60	0.80	0.70	0.70	0.60	0.60
TF..37	0.95	1.25	0.70	1.25	1.00	1.10
TF..47	1.50	1.80	1.10	1.90	1.50	1.70
TF..57	2.7	3.5	2.1	3.4	2.9	3.0
TF..67	2.7	3.8	1.90	3.8	2.9	3.2
TF..77	5.9	7.3	4.3	8.0	6.0	6.3
TF..87	10.8	13.0	7.7	13.8	10.8	11.0
TF..97	18.5	22.5	12.6	25.0	18.5	20.0
TF .. 107	24.5	32.0	19.5	37.5	27.0	27.0
TF..127	39.0	55	34.0	61	45.0	46.5
TF..157	68	103	62	104	85	77

11. MAINTENANCE

1.) Gear units TF27 have lubricants for life and are therefore maintenance-free.

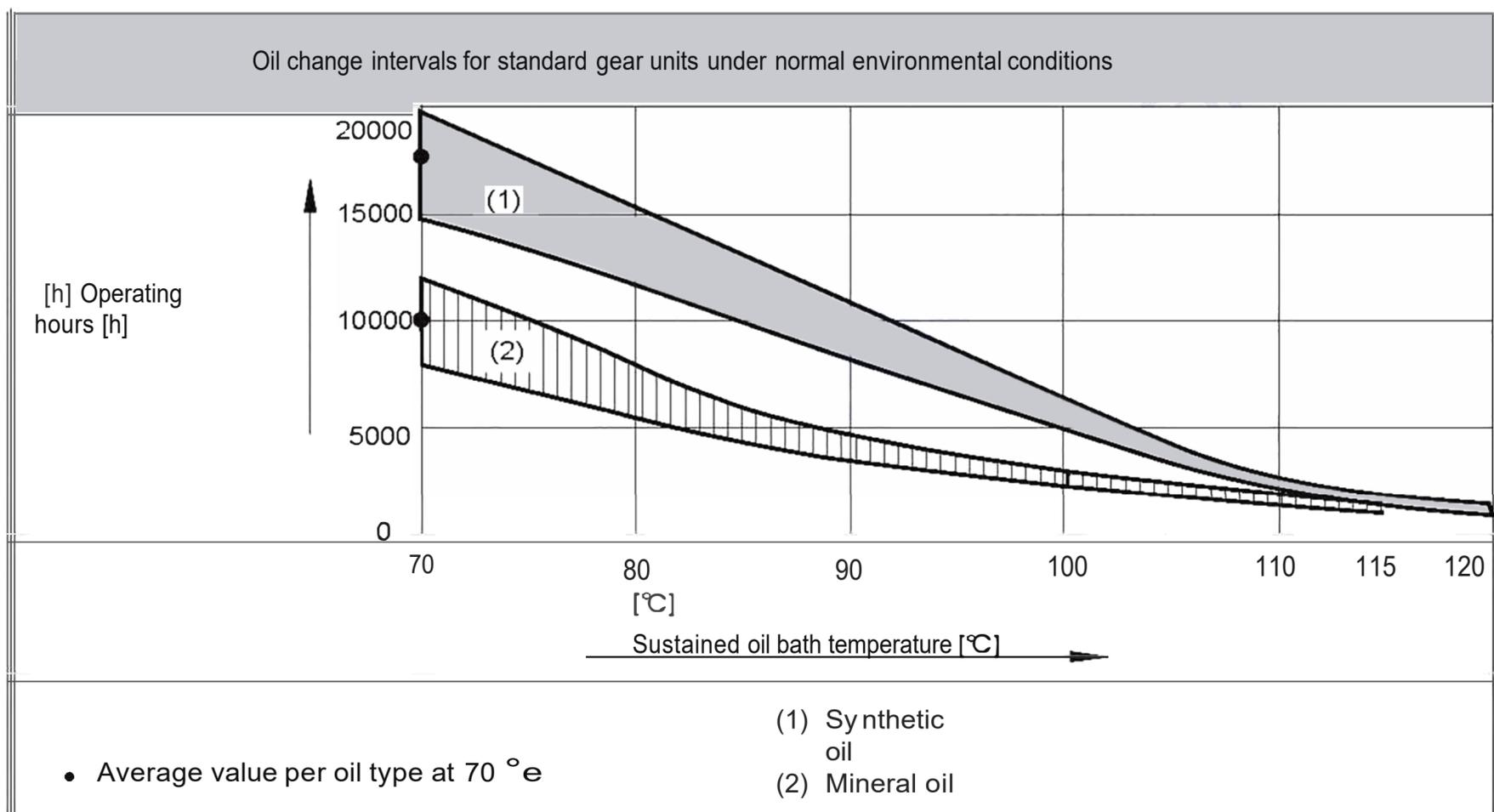
2.) For other type gear units, first oil change should be after about 300 hours (run-in-period). The right lotion is required to clean the gear units with care, Never mix the synthetic oil and mineral oil together.

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 problem 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.



MALFUNCTIONS

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 breather 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 /EC 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 vibration occur	A. Annular gear wear, short-term torque transfer through metal contact B. bolts to secure hub axially are loose. 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.	A. Change the annular gear B. Tighten the bolts
Premature wear in 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

ADDENDUM

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	B	LAND DREDGER	
Turbo-Fan	A	Drump-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) FOODSTUFF	
Mixer (half liquid)	B	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	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

ADDENDUM

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.

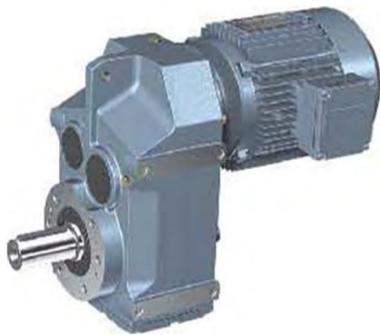
SHOW THE SERIES PRODUCTS

TR Series helical geared motors



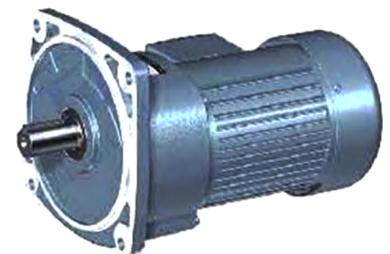
TS Series helical-worm geared motors

TK Series helical-bevel geared motors



TF Series parallel shaft helical geared motors

G3 Series mini helical geared motors



CHC Series mini helical gear units



TMRV Series worm gear units

UDL Series stepless speed variator



