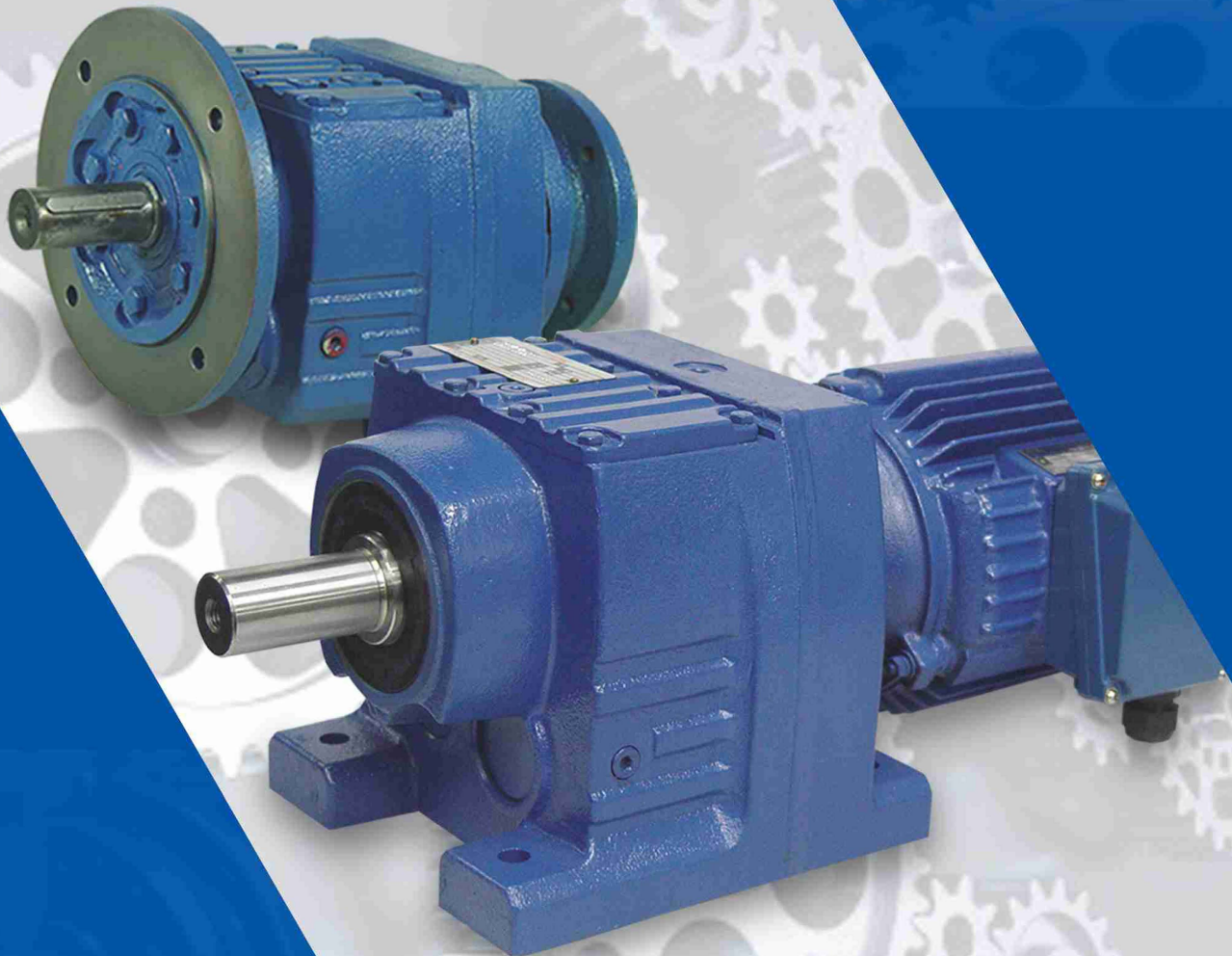


Transmax

Made in China

Helical Gear



TR Series

**Europe Technology and
Design Helical Geared Motor**



TR Series

**Europe Technology & Design
Helical Geared Motor**

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1. SUMMARIZE

TR Series 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 normal motor, brake motor, explosion-proof motor, frequency conversion motor, servo motor, IEC motor and so on. It can be mounted discretionary six orientation in solid space. This kind of product is widely used in drive fields such as textile, foodstuff, beverage, chemical industry, automatic arm ladder, automatic storage equipment, metallurgy, tobacco, environment-protection, logistics and so on.

1.1 PERFORMANCE CHARACTERISTICS

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

TR Series helical gearmotor of 1-stage, 2-stage or 3-stage helical gears unit and motor. The helical gear which use the material of high quality alloy steel with the surface hardened takes shape through processing of high-precision equipment. Except the **TR..27** housing with aluminum alloy, all are cast iron housing. Housing is exactly processed to ensure the shape and position precision. And it reaches advantageous performance such as: strong bearing capacity, long service-life; small volume; big ratio; light weight, high efficiency, low noise.

TR Series helical gearmotor has more than ten models. Combined with TRF series, the multi-stage gear reduction can be achieved. Power 0.12-160KW; Ratio 1.3-27001; Torque 69-18000Nm. It can connect (foot, flange) discretionary and use multi-mounting positions according to customers' requirements.

2. MODEL MARK

TR **F** **87** **II** - **YDT** **112** **M 4** / **BMG** / **HF** / **TF** - **27.88** - **M6** / **270°**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

No.	Comments
1.	TR : code for helical-gear units series
2.	1). No code means foot-mounted 2). F : B5 flange mounted 3). Z : B14 flange mounted 4). X : single-stage foot-mounted 5). XF : single-stage flange-mounted
3.	Specification code of gear units 27, 37,... ..
4.	1) No code means foot-mounted, no flange 2) F : foot-mounted, B5 output flange 3) I, II, III : B5 output flange specification, default I not to write out is ok
5.	1). YDT : motor code 2). AM : IEC input couplings 3). AD : Input shaft coupling
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
13.	M1 : Mounting position 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: **TR47 - MY71D4 - 121.87**
TRF57III - AM80 - 80.55
TRXF67 - MY90S4 / BMG - 1.86 - M1 / R

RELEVANT PARAMETER**1) Power**

P₁	Input power
P₂	Output power
P_{1n}	Rated power driving motor
f_s	Service Motor
η	Transmission efficiency

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

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

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

2) Rotation speed *n*

n₁	Gear units input speed
n₂	Gear units output speed

which in selection table means the motor rotation speed 1400/min. If driven by the external gearing, 1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life. Higher input rotation speed is permitted, but in this situation, the rated torque **M₂** will be reduced.

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) Torque *M*

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

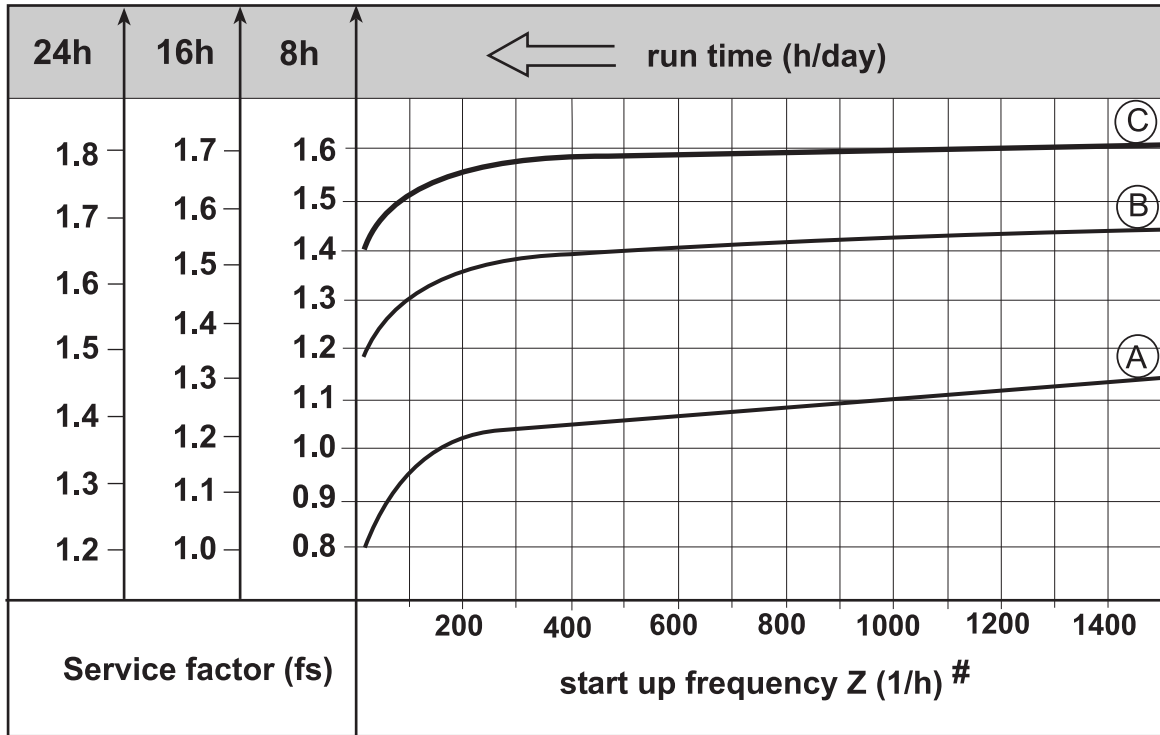
$$M_{2n} \geq M_2 \cdot f_s \text{ [Nm]}$$

M₂	Output torque
M_{2n}	Rated output torque
P₁	Input power
η	Transmission efficiency
f_s	Service factor

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 starting frequency **Z**. Three load classifications are considered depending on the mass acceleration factor.

You can read off the service factor applicable to your application in following Figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.



Starting Frequency Z : The cycles include all starting and braking procedures as well as change over from low to high speed.

Load classifications :

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

Load classifications see the addendum.

The mass acceleration factor is calculated as follows:

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

f_a Mass acceleration factor

J_c All external mass moments of inertia (kgm²)

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

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

To Keep the service life of gear units, the use factor f_s selected from the catalog must be equal or slightly higher than the calculated use factor f_s

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

Transmission element	Transmission element factor F_z	Comments
Gears	1.00	≥ 17 teeth
	1.15	< 17 teeth
Chain sprockets	1.00	≥ 20 teeth
	1.25	< 20 teeth
	1.40	< 13 teeth
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 than calculated as follows:

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

- F_r** Resulting radial load [N]
 M Torque on the shaft [Nm]
 d_0 Mean diameter of the mounted transmission element in [mm]
 f_z Transmission element factor

The basis for determining the permitted radial loads is the computation of the rated service life **LH10** of the bearings (according to **ISO 281**). 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_r for the output shafts of foot-mounted gear units with a solid shaft are listed in the selection tables. Contact our company in case of other versions.

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

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

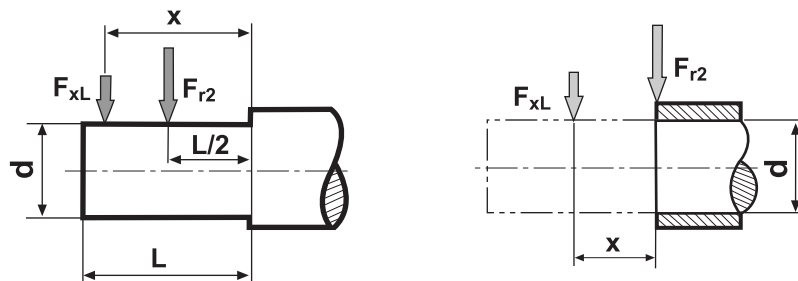
$$F_{xW} = F_{r2} \cdot \frac{c}{f + x} = [N]$$

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 [mm]



Gear unit type	a [mm]	b [mm]	c [Nmm]	f [mm]	d [mm]	L [mm]
TRX57	43.5	23.5	1.51 x 10 ⁵	34.2	20	40
TRX67	52.5	27.5	2.42 x 10 ⁵	39.7	25	50
TRX77	60.5	30.5	1.95 x 10 ⁵	0	30	60
TRX87	73.5	33.5	7.69 x 10 ⁵	48.9	40	80
TRX97	86.5	36.5	1.43 x 10 ⁶	53.9	50	100
TRX107	102.5	42.5	2.47 x 10 ⁶	62.3	60	120
TR27	105.5	81.5	1.56 x 10 ⁵	11.8	25	50
TR37	118	93	1.24 x 10 ⁵	0	25	50
TR47	137	107	2.44 x 10 ⁵	15	30	50
TR57	147.5	112.5	3.77 x 10 ⁵	18	35	70
TR67	158.5	133.5	2.51 x 10 ⁵	0	35	70
TR77	173.7	133.7	3.97 x 10 ⁵	0	40	80
TR87	216.7	166.7	8.47 x 10 ⁵	0	50	100
TR97	255.5	195.5	1.19 x 10 ⁶	0	60	120
TR107	285.5	215.5	2.06 x 10 ⁶	0	70	140
TR137	343.5	258.5	6.14 x 10 ⁶	30	90	170
TR147	402	297	8.65 x 10 ⁶	33	110	210
TR167	450	345	1.26 x 10 ⁷	0	120	210

SELECTION EXAMPLE

1) Gear motor

Example: Required power 16kW on driven machine, work for 8h/day, moderate shock load, so $f_s=1.3$, M6 foot-mounted, $n_2=61.9$ r/min

$$i = \frac{n_1}{n_2} = \frac{1400}{61.9} = 22.62$$

$$P_{1n} \geq P_1 \cdot f_s = \frac{P_2}{\eta} \cdot f_s = \frac{16}{0.96} \times 1.3 = 21.67 \text{ [kW]}$$

Choose type:

TR107 - YDT180L4 - 22.62 - M6

2) Gear units

Example: Required torque 480Nm on driven machine, work 6h/day, uniform load, so $f_s=1.2$, flange-mounted, $n_2=2.5$ r/min, choose TR../TRF..

$$i = \frac{n_1}{n_2} = \frac{1400}{2.5} = 560$$

$$M_{2n} \geq M_2 \cdot f_s = 480 \times 1.2 = 576 \text{ [Nm]}$$

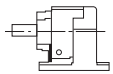
$$P_{1n} \geq P_1 \cdot f_s = \frac{M_2 \cdot n_1}{9550 \cdot \eta \cdot i} \cdot f_s = \frac{480 \times 1400}{9550 \times 0.94 \times 0.96 \times 560} \times 1.2 = 0.167 \text{ [kW]}$$

Choose type:

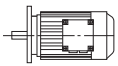
TRF77 / TRF37 - YDA63M4 - 560

SELECTION TABLES COMMENTS

- P_{1n}** Rated power driving motor [kW]
- n₂** 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



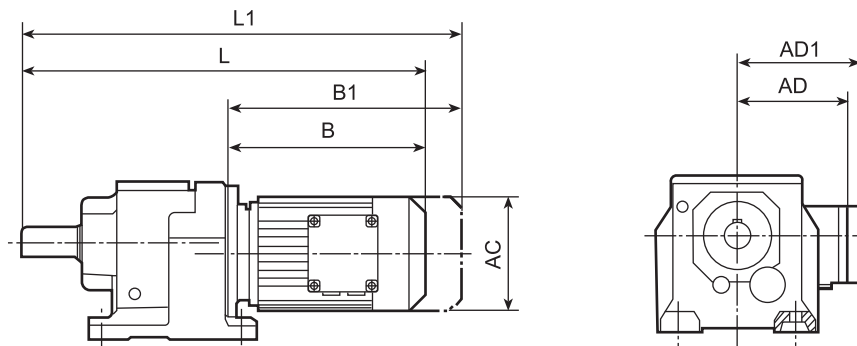
Gear unit type



Motor type

page Dimension sheet page no

* Finite gear unit reduction ratio



- 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

The Below is combination Table between gear box and electromotor in each list the ratio range

Gear Unit Size	Stages	YDA63 YDA71	YDA80	YDA90	YDA100	YDA112	YDA132S	YDA132M
TRX/TRXF57	1	1.65-5.50	1.30-4.35	1.30-3.79	1.30-2.64 3.14	1.30-2.64	1.30-2.04	1.30-2.04
TRX/TRXF67	1	2.04-6.07	1.61-5.18	1.40-4.53	1.40-3.77	1.40-3.20	1.40-2.54	1.40-2.54
TRX/TRXF77	1	2.70-8.00	2.13-6.41	1.42-5.63	1.42-4.73	1.42-4.04	1.42-3.25	1.42-3.25
TRX/TRXF87	1		3.09-8.65	2.15-7.63	1.60-6.45	1.60-5.56	1.39-4.50	1.39-4.50
TRX/TRXF97	1		4.04-8.23	2.92-8.23	2.24-8.23	2.24-7.16	1.42-5.79	1.42-5.79
TRX/TRXF107	1				2.64-6.63	2.64-6.63	1.71-6.63	1.71-6.63
TR/TRF17	2	3.83-25.23	3.83-19.71					
TR/TRF17	3	24.07-81.64	24.07-81.64	3.37-8.16				
TR/TRF27	2	3.37-28.37	3.37-22.32	10.13-19.35	3.37-6.59 10.13-15.63			
TR/TRF27	3	24.47-135.09	24.47-105.49	24.47-48.17 61.30-90.96	24.47-32.47 39.25 61.30 74.11			
TR/TRF37	2	3.41-28.32	3.41-22.27	3.41-19.31	3.41-15.60			
TR/TRF37	3	24.42-134.82	24.42-105.28	24.42-48.08 61.18-90.77	24.42-32.40 39.17 61.18 73.96			
TR/TRF47	2	4.85-7.76 10.15-33.79	3.83-26.74	3.83-23.28	3.83-16.22 19.27	3.83-16.22	3.83-6.00 8.01-12.54	3.83-6.00 8.01-12.54
TR/TRF47	3	29.88-176.88	23.59-139.99	23.59-121.87	23.59-47.75 56.73 76.23-84.90 100.86	23.59-47.75		23.59-36.93
TR/TRF57	2	6.41-9.06 11.88-26.31	5.05-26.31	4.39-26.31	4.39-21.93	4.39-18.60	4.39-7.97 9.35-14.77	4.39-7.97 9.35-14.77
TR/TRF57	3	30.18-186.89	26.97-147.92	26.97-128.77	26.97-48.23 57.29 80.55-89.71 106.58	26.97-48.23 80.55-89.71	26.97-37.30	26.97-37.30
TR/TRF67	2	6.27-7.79 12.70-28.13	4.93-7.79 10.00-28.13	4.29-28.13	4.29-23.44	4.29-19.89	4.29-15.79	4.29-15.79
TR/TRF67	3	32.27-199.81	28.83-158.14	28.83-137.67	28.83-51.56 61.26-95.91 113.94	28.83-51.56 69.75-95.91	28.83-39.88 69.75-74.17	28.83-39.88 69.75-74.17
TR/TRF77	2	8.59 15.60-23.37	6.79-8.59 12.33-23.37	5.31-23.37	5.31-23.37	5.31-23.37	5.31-18.80	5.31-18.80
TR/TRF77	3	36.83-195.24	29.00-166.59	25.23-145.67	25.23-121.42	25.23-102.99	25.23-45.81 65.77-81.80	25.23-45.81 65.77-81.80
TR/TRF87	2		19.10-34.40	7.13-9.14 13.33-34.40	5.30-34.40	5.30-34.40	5.30-27.84	5.30-27.84
TR/TRF87	3		41.74-246.54	27.88-216.54	27.88-181.77	27.88-155.34	27.88-63.68 81.92-124.97	27.88-63.68 81.92-124.97
TR/TRF97	2		22.37-32.05	9.29 16.17-32.05	7.12-9.29 12.39-32.05	7.12-9.29 12.39-32.05	4.50-32.05	4.50-32.05
TR/TRF97	3		53.21-65.21 103.44-289.74	37.13-255.71	27.58-216.28	27.58-186.30	27.58-150.78	27.58-150.78
TR/TRF107	2				15.65-30.77	15.65-30.77	5.82-7.86 10.13-30.77	5.82-7.86 10.13-30.77
TR/TRF107	3				40.37-251.15	40.37-251.15	29.49-203.16	29.49-203.16
TR/TRF137	2						7.59 12.83-29.57	7.59 12.83-29.57
TR/TRF137	3						32.91-222.60	32.91-222.60

Gear Unit Size	Stages	YDA132ML	YDT160M	YDT160L	YDT180	YDT200	YDT225	YDT250M
TRX/TRXF77	1	1.42-2.43	1.42-2.43					
TRX/TRXF87	1	1.39-3.48	1.39-3.48	1.39-3.48	1.39-2.76			
TRX/TRXF97	1	1.42-4.52	1.42-4.52	1.42-4.52	1.42-3.64	1.42-29.2		
TRX/TRXF107	1	1.44-5.19	1.44-5.19	1.44-5.19	1.44-4.20	1.44-3.38	1.44-3.38	
TR/TRF 77	2	5.31-7.74 9.64-14.05	5.31-7.74 9.64-14.05					
TR/TRF77	3	25.23-33.47	25.23-33.47					
TR/TRF87	2	5.30-21.51	5.30-21.51	5.30-21.51	5.30-17.08			
TR/TRF87	3	27.88-47.58 81.92-93.38	27.88-47.58 81.92-93.38	27.88-47.58 81.92-93.38	27.88-36.84			
TR/TRF97	2	4.50-25.03	4.50-25.03	4.50-25.03	4.50-20.14	4.50-16.17		
TR/TRF97	3	27.58-59.92 72.17-116.48	27.58-59.92 72.17-116.48	27.58-59.92 72.17-116.48	27.58-47.58 72.17-92.48	27.58-37.13 72.17		
TR/TRF107	2	4.92-30.77	4.92-30.77	4.92-30.77	4.92-24.90	4.92-20.07	4.92-20.07	
TR/TRF107	3	29.49-158.68	29.49-158.68	29.49-158.68	29.49-65.60 78.57-127.68	29.49-52.68 78.57-102.53	29.49-52.68 78.57-102.53	
TR/TRF137	2	6.38-7.59 10.79-29.57	6.38-7.59 10.79-29.57	6.38-7.59 10.79-29.57	5.15-29.57	5.15-24.12	5.15-24.12	5.15-19.04
TR/TRF137	3	27.83-147.40	27.83-174.40	27.83-174.40	27.83-141.12	27.83-65.20 88.70-113.72	27.83-65.20 88.70-113.72	27.83-50.86 88.70
TR/TRF147	2	7.25 11.99-20.44	7.25 11.99-20.44	7.25 11.99-20.44	5.89-7.25 9.74-20.44	5.00-20.44	5.00-20.44	5.00-20.44
TR/TRF147	3	29.95-163.31	29.95-163.31	29.95-163.31	24.19-146.91	24.19-119.86	24.19-119.86	24.19-52.87 72.09-94.60
TR/TRF167	2		14.48-46.00	14.48-46.00	1.99-37.74	10.24-30.71	10.24-30.71	10.24-24.57
TR/TRF167	3		34.41-229.71	34.41-229.71	27.96-186.93	23.71-153.07	23.71-153.07	23.71-58.65 82.91-121.81

Gear Unit Size	Stages	YDT280	YDT315	YDT 315M_A/B				
TR/TRF147	2	5.00 -20.44						
TR/TRF147	3	24.19-52.87 72.09-94.60						
TR/TRF167	2	10.24-24.57	10.24-19.03	10.24-14.48				
TR/TRF167	3	23.71-58.65 82.91-121.81	23.71-44.87 82.91-93.19	23.71-34.41				

TRX/TRXF57-67..

$n_a \quad n_e=1400 \quad 1/\text{min}$

TRX/TRXF57				70Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
5.50	255	39	3080	AD ₂
5.07	276	36	3030	
4.35	322	68	2640	
3.79	369	69	2480	
3.55	394	69	2420	
3.14	446	65	2320	
2.91	481	67	2170	
2.64	530	69	1810	
2.37	591	69	1500	
2.04	656	69	1070	AD ₃
1.92	729	69	890	
1.65	848	69	430	
1.48	946	68	112	
1.30	1075	63	132	

TRX/TRXF67				135Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
6.07	231	43	4010	AD ₂
5.18	270	75	3580	
4.53	309	82	3350	
4.30	326	80	3300	
3.77	371	87	3090	
3.20	438	100	2800	
2.89	484	106	2640	AD ₃
2.54	551	118	2000	
2.40	583	123	1530	
2.04	686	134	230	
1.86	753	126	225	
1.61	870	114	245	
1.40	1000	104	205	

TRX/TRXF77-87..

$n_a \quad n_e=1400 \quad 1/\text{min}$

TRX/TRXF77				215Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
800*	175	57	6330	AD ₂
7.47	187	53	6200	
6.41	218	103	5600	
5.63	249	110	5300	
5.35*	262	103	5240	
4.73	296	123	4900	AD ₃
4.04*	347	143	4500	
3.70	378	153	4290	
3.25*	431	182	3200	AD ₄
3.08*	455	193	2560	
2.70	519	215	1110	
2.43	576	215	510	
2.13	657	200	435	
1.88*	745	187	335	
1.67	838	173	315	
1.42	986	155	315	

TRX/TRXF87				400Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
8.65	162	139	7890	AD ₂
7.63	183	149	7490	
7.20*	194	140	7380	
6.45	217	192	6850	AD ₃
5.56*	252	225	6320	
5.07	276	250	5980	AD ₄
4.50*	311	290	5500	
3.78	370	305	5030	
3.48	402	405	2730	AD ₅
3.09	453	405	1950	
2.76	507	405	1200	
2.48	565	405	470	
2.15	651	385	42	
1.93	725	355	185	
1.50	875	315	74	
1.39	1005	290	74	

TRX/TRXF97-107..
 $n_a \quad n_e=1400 \quad 1/\text{min}$

TRX/TRXF97				600Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
8.23	170	225	9560	AD ₃
7.16	196	260	8950	
6.56	213	300	8500	
5.79	242	420	7630	AD ₄
4.91	285	395	7220	
4.52	310	595	6180	AD ₅
4.04	347	595	5380	
3.64*	385	595	4530	
3.30	424	595	3730	
2.92	479	595	2810	
2.64	530	595	1980	
2.24*	625	595	495	
1.96	714	570	19	
1.64	854	505	51	
1.42	986	455	132	

TRX/TRXF107				830Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
6.63	211	460	9700	AD ₄
5.61	250	455	9080	
5.19	270	695	7850	AD ₅
4.65	301	695	7450	
4.20	333	830	6420	
3.81	367	830	5550	
3.38	414	830	4490	
3.07	456	830	3600	AD ₆
2.64	530	830	2210	
2.30	609	830	950	
1.95	718	765	600	
1.71	819	705	525	
1.44	972	645	360	

TR/TRF17..
 $n_a \quad n_e=1400 \quad 1/\text{min}$

TR/TRF17..				600Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	
3-stages				
81.64	17	85	1890	
70.39	20	85	1890	
65.61	21	85	1890	
57.35	24	85	1890	
53.76	26	85	1890	
47.44	30	85	1890	
44.18	32	85	1890	
38.61	36	85	1890	
36.20	39	85	1890	
31.94	44	85	1870	
28.32	49	85	1780	
24.07	58	85	1650	

TRX/TRXF107				830Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	
2-stages				
25.23	55	85	1690	
23.15	60	85	1620	
19.71	71	85	1500	
16.99	82	85	1400	
15.84	88	85	1350	
13.84	101	85	1270	
12.98	108	85	1230	
11.45	122	81	1180	
10.15	138	77	1140	
8.63	162	72	1090	
7.55	185	56	1040	
7.04	199	55	1010	
6.15	228	54	950	
5.76	243	53	930	
5.09	275	51	890	
4.51	310	48	870	
3.83	366	45	830	

TR/TRF27-37..

$n_a \quad n_e=1400 \quad 1/\text{min}$

TR/TRF27				130Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
135.09	10	130	4230	AD ₁
123.91	11	130	4230	
105.49	13	130	4230	
90.96	15	130	4230	
84.78	17	130	4230	
74.11	19	130	4230	AD ₁
69.47	20	130	4180	
61.30	23	130	3980	
55.87	25	130	3840	
48.17	29	130	3630	
44.90	31	130	3530	
39.25	36	130	3350	
36.79	38	130	3260	
32.47	43	130	3100	
28.78	49	130	2950	
24.47	57	130	2770	
2-stages				
28.37	49	130	2940	AD ₂
26.09	54	130	2840	
22.32	63	130	2660	
19.35	72	130	2510	
18.08	77	130	2440	
15.63	90	130	2290	
13.28	105	130	2140	
11.86	118	129	1990	
10.13	138	122	1890	
9.41	149	122	900	
8.16	172	116	870	
7.63•	183	112	900	
6.59	212	106	880	
5.60•	250	99	880	
5.00•	280	95	860	
4.27	328	87	920	
4.00•	350	85	910	
3.37	415	79	900	

TR/TRF37				200Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
3-stages					
134.82	10	200	4950	AD ₁	
123.66	11	200	4950		
105.28	13	200	4950		
90.77	15	200	4950		
84.61	17	200	4950		
73.96	19	200	4950		
69.33	20	200	4950		
61.18	23	200	4950		
55.76	25	200	4950		
48.08	29	200	4950		
44.81	31	200	4950	AD ₂	
39.17	36	200	4760		
36.72	38	200	4540		
32.40	43	200	4120		
28.73	49	200	3740		
24.42	57	200	3240		
2-stages					
28.32	49	200	3690		AD ₂
26.03	54	185	3860		
22.27	63	200	2970		
19.31	73	200	2570		
18.05	78	200	2390		
15.60	90	200	2010		
13.25	106	190	1880		
11.83	118	183	1810		
10.11	138	170	1820		
9.47	148	167	1760		
7.97	176	156	1720		
6.67	210	144	1000		
5.67	247	142	760		
5.06	277	135	790		
4.32	324	126	820		
4.05	346	122	850		
3.41	411	112	900		

TR/TRF47-57..

$n_a = n_e = 1400$ 1/min

TR/TRF47				300Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
3-stages					
176.88	7.9	300	5420		
162.94	8.6	300	5420		
139.99	10	300	5420		
121.87	11	300	5420		
114.17	12	300	5420		
100.86	14	300	5420		
93.68	15	300	5420		
84.90	16	300	5420		
76.23	18	300	5420		
68.54	20	300	5420	AD ₂	
64.21	22	300	5420		
56.73	25	300	5420		
52.69	27	300	5350		
47.75	29	300	5150		
42.87	33	300	4930		
36.93	38	300	4630		
34.73	40	300	4520		
29.88	47	300	4240		
26.70	52	300	4050		
23.59	59	300	3840		
2-stages					
33.79	41	240	4690		
31.12	45	220	4610		
25.74	52	300	4050		
23.28	60	300	3820		
21.81	64	300	3710		
19.27	73	295	3530		
17.89	78	290	3390		
16.22	86	275	3350		
14.56	96	265	3230	AD ₂	
12.54	112	250	3080		
11.79	119	245	3020		
10.15	138	230	2890		
9.07	154	220	2760		
8.01	175	205	2690		
7.76 •	180	163	2720		
6.96	201	159	2620		
6.00	233	156	2740		
5.64 •	248	155	2410		
4.85	289	150	2280		
4.34	323	146	2190		
3.83	366	144	2090	AD ₃	

TR/TRF57				450Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
3-stages					
186.89	7.5	450	7110		
172.17	8.1	450	7110		
147.92	9.5	450	7110		
128.77	11	450	7110		
120.63	12	450	7110		
106.58	13	450	7110		
98.99	14	450	7110		
89.71	16	450	7110		
80.55	17	450	7110		
69.23	20	450	7110	AD ₂	
64.85	22	450	6980		
57.29	24	450	6630		
53.22	26	450	6430		
48.23	29	450	6170		
43.30	32	450	5900		
37.30 •	38	450	5530		
35.07	40	450	5390		
30.18	46	450	5050		
26.97	52	450	4800		
2-stages					
26.31	53	450	4750		
24.99	56	450	4640		
21.93	64	450	4370	AD ₂	
18.60	75	450	4050		
16.79	B3	450	3860		
14.77	95	435	3690		
13.95	100	430	3810		
11.88	118	405	3430		
10.79	130	390	3330		
9.35	150	370	3180		
9.06	155	375	2010		
7.97	176	355	2020	AD ₃	
7.53	186	350	1950		
6.41	218	335	1770		
5.82	241	320	1820		
5.05	277	305	1730		
4.39	319	280	1900		

TR/TRF67-77..

n_a $n_e=1400$ 1/min

TR/TRF67				600Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
199.81	7.0	600	7170	AD ₂
184.07	7.6	600	7170	
158.14	8.9	600	7170	
137.67	10	600	7170	
128.97	11	600	7170	
113.94	12	500	7170	
105.83	13	600	7170	
95.91	15	600	7170	
86.11	16	600	7170	
74.17	19	600	7170	
69.75	20	500	7170	
61.26	23	600	7170	
56.89	25	600	7170	
51.56	27	600	7170	
46.29	30	600	7170	
39.88 •	35	580	7410	
37.50	37	570	7530	
32.27	43	540	7850	
28.83	49	520	8050	
2-stages				
28.13	50	540	7850	AD ₂
26.72	52	540	7850	
23.44	60	560	7640	
19.59	70	500	7170	AD ₃
17.95	78	590	7290	
15.79	89	560	7130	
14.91	94	550	6980	
12.70	110	520	6650	
11.54	121	500	6500	
10.00	140	470	6220	
8.70 •	161	440	5960	
7.79	180	380	5830	
7.36 •	190	370	5790	
6.27	223	330	5590	
5.70	246	310	5450	
4.95	284	290	5210	
4.29	326	270	5000	

TR/TRF77				820Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
3-stages					
195.24	7.2	820	9920	AD ₂	
166.59	8.4	820	9920		
145.67	9.6	820	9920		
138.39	10	820	9920		
121.42	12	820	9920		
102.99	14	820	9920		
92.97	15	820	9920		
81.80	17	820	9920		
77.24	18	820	9920		
65.77	21	820	9920		
57.68	24	820	9920		
52.07	27	820	9920		
45.81	31	820	9920		
43.26	32	820	9920		
36.83	38	820	9920		
33.47	42	820	9920		
29.00	48	820	9920		
25.23	55	780	10100		
2-stages					
23.37	60	820	8870		AD ₃
21.43	65	820	8250		
18.80	74	780	7980		
17.82	79	780	7620		
15.60	90	740	7390		
14.05	100	720	7050		
12.33	114	690	6740		
10.88	129	660	6490		
9.64	145	630	6300		
8.59	163	630	4110		
7.74	181	610	3940	AD ₄	
6.79	206	580	3850		
5.99	234	540	3990		
5.31	264	510	3990		

TR/TRF87-97..

n_a $n_e=1400$ 1/min

TR/TRF 87				1550Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
246.54	5.7	1550	16900	
216.54	6.5	1550	16900	
205.71	6.8	1550	16900	
181.77	7.7	1550	16900	
155.34	9.0	1550	16900	
142.41	9.8	1550	16900	
124.97	11	1550	16900	
118.43	12	1550	16900	
103.65	14	1550	16900	
93.38	15	1550	16900	AD ₂
81.92	17	1550	16900	
72.57	19	1550	16900	
63.68	22	1550	15800	
60.35	23	1550	15200	
52.82	27	1550	13500	
47.58	29	1550	16900	
41.74	34	1550	16900	
36.84	38	1550	16800	AD ₃
32.66	43	1550	16000	
27.88	50	1550	15100	
2-stages				
34.40	41	1550	9480	AD ₃
31.40	45	1550	7820	
27.84	50	1550	15000	
23.40	60	1550	13900	
21.51	65	1550	13600	
19.10	73	1440	13000	
17.08	82	1390	12600	AD ₄
15.35	91	1340	12100	
13.33	105	1280	11600	
11.93	117	1230	11200	
9.90	141	1180	10400	
9.14	153	1210	10500	
8.22	170	1160	10200	
7.13	196	1070	9780	AD ₅
6.39	219	1020	9450	
5.30	264	910	8980	

TR/TRF97				3000Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
289.74	4.8	3000	19800	
255.71	5.5	3000	19800	
241.25	5.8	3000	19800	
216.28	6.5	3000	19800	
186.30	7.5	3000	19800	
170.02	8.2	3000	19800	
150.78	9.3	3000	19800	
126.75	11	3000	19800	
116.48	12	3000	19800	
103.44	14	3000	19800	AD ₃
92.48	15	3000	19800	
83.15	17	3000	19800	
72.17	19	3000	19800	
65.21	21	3000	19800	
59.92	23	3000	19800	
53.21	26	3000	19800	
47.58	29	3000	19800	
42.78	33	3000	19800	
37.13	38	3000	18600	AD ₄
33.25	42	2890	17900	
27.58	51	2670	16900	
2-stages				
32.05	44	2560	10600	
27.19	51	2560	8380	AD ₄
25.03	56	2830	15900	
22.37	63	2720	15300	
20.14	70	2610	14800	
18.24	77	2500	14400	
16.17	87	2400	13800	
14.62	95	2300	13400	
12.39	113	2190	12700	AD ₅
10.83	129	2090	12100	
9.29	151	2030	12200	
8.39	167	2030	11700	
7.12	197	2000	10900	
6.21	225	1890	10500	
5.20	269	1780	9850	
4.50 •	311	1630	9500	AD ₆

TR/TRF107-137..

n_a $n_e=1400$ 1/min

TR/TRF 107				4300Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
251.15	5.6	4300	29500	
229.95	6.1	4300	29500	
203.16	6.9	4300	29500	
172.34	8.1	4300	29500	
158.68	8.8	4300	29500	
141.83	9.9	4300	29500	
127.68	10	4300	29500	
115.63	12	4300	29500	AD ₃
102.53	14	4300	29500	
92.70	15	4300	29500	
78.57	18	4300	29500	
72.88	19	4300	29500	
65.60 •	21	4300	29200	
59.41	24	4300	28000	
52.68	27	4300	26600	
47.63	29	4300	25500	
40.37 •	35	4300	23800	
35.26	40	4300	22400	AD ₄
29.49	47	4300	20700	
2-stages				
30.77	45	4300	21100	
27.58	51	4300	20100	
24.90 •	56	4300	19200	
22.62	62	4300	18300	AD ₅
20.07	70	4300	17300	
18.21	77	4300	16600	
15.65	89	4300	15400	
13.66	102	4300	14400	
11.59	121	4300	13300	
10.13	138	4300	12400	
8.56	164	4300	11300	
7.86	178	2970	13800	AD ₆
6.66	210	2970	12800	
5.82	241	2970	12100	
4.92	285	2900	11300	

TR/TRF 137				8000Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
222.60	6.3	8000	53400	
188.45	7.4	8000	53400	
174.40	8.0	8000	53400	
156.31	9.0	8000	53400	
141.12	9.9	8000	53400	
128.18	11	8000	53400	
113.72	12	8000	53400	
103.20	14	8000	53400	AD ₄
88.70	16	8000	53400	
80.91	17	8000	53400	
73.49	19	8000	53400	
65.20	21	8000	53400	
59.17	24	8000	53400	
50.86	28	8000	53400	
44.39	32	8000	53400	
37.65	37	8000	53400	AD ₅
32.91	43	8000	53400	
27.83	50	7680	54100	
2-stages				
29.57	47	7780	53900	
24.12	58	8000	49400	AD ₆
22.00	64	8000	47100	
19.04	74	8000	43500	
16.80	83	8000	40600	
14.51	98	8000	37300	
12.83	109	8000	34700	
10.79	130	8000	31100	AD ₇
8.71	161	7840	27600	
7.59	184	5110	39000	
6.38	219	5110	35900	
5.15	272	4600	34500	

TR/TRF147-167..

n_a $n_e=1400$ 1/min

TR/TRF 147				13000Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
163.31	8.6	13000	62700	AD ₄
146.91	9.5	13000	62700	
119.86	12	13000	62700	
109.31	13	13000	62700	
94.60	15	13000	62700	
83.47	17	13000	62700	
72.09	19	13000	62700	AD ₅
66.99	21	13000	62700	
61.09	23	13000	62700	
52.87	26	13000	62700	
46.65	30	13000	62700	AD ₆
40.29	35	13000	62700	
35.64	39	13000	62700	AD ₇
29.95	47	13000	62700	
24.19	58	11900	64700	
2-stages				
20.44	68	12000	64600	AD ₈
18.04	78	10500	67000	
15.64	90	13000	62700	
13.91	101	12600	63400	
11.99	117	13000	60400	
9.74	144	13000	54400	
8.26	169	13000	49900	
7.25	193	8670	58400	
5.89	238	8670	53200	
5.00	280	8670	49300	

TR/TRF 167				18000Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
3-stages				
229.71	6.1	18000	120000	AD ₅
186.93	7.5	18000	120000	
153.07	9,1	18000	120000	
139.98	10	18000	120000	
121.81	11	18000	120000	
107.49	13	18000	120000	
93.19	15	18000	120000	
B2.91	17	18000	120000	
73.70	19	18000	120000	
57.40	21	18000	120000	
58.65	24	18000	120000	
51.76	27	18000	120000	
44.87	31	18000	120000	AD ₆
39.92	35	18000	120000	
34.41	41	18000	120000	AD ₇
27.96	50	18000	120000	
23.71	59	18000	116500	AD ₈
2-stages				
46.00	30	7000	120000	AD ₅
37.74	37	9000	120000	
30.71	46	10000	120000	AD ₆
24.57	57	14000	120000	
21.85	64	13000	120000	AD ₈
19.03	74	16000	111400	
16.98	B2	15000	108900	
14.48	97	18000	93800	
11.99	117	17000	88700	
10.24	137	17000	82500	

TR/TRF27-37/R17..

n_a $n_e=1400$ 1/min

TR/TRF 27R17			130Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
8612	0.16	130	4230
7425	0.19	130	4230
6921	0.20	130	4230
6050	0.23	130	4230
5217	0.27	130	4230
4661	0.30	130	4230
4073	0.34	130	4230
3516	0.40	130	4230
3160	0.44	130	4230
2763	0.51	130	4230
2414	0.58	130	4230
2110	0.66	130	4230
1862	0.75	130	4230
1822	0.77	130	4230
1625	0.86	130	4230
1580	0.89	130	4230
1464	0.96	130	4230
1434	0.98	130	4230
1270	1.1	130	4230
1254	1.1	130	4230
1101	1.3	130	4230
1100	1.3	130	4230
972	1.4	130	4230
962	1.5	130	4230
848	1.7	130	4230
840	1.7	130	4230
743	1.9	130	4230
741	1.9	130	4230
654	2.1	130	4230
649	2.2	130	4230
567	2.5	130	4230
566	2.5	130	4230
509	2.8	130	4230
499	2.8	130	4230
440	3.2	130	4230
432	3.2	130	4230
387	3.6	130	4230
381	3.7	130	4230
339	4.1	130	4230
329	4.3	130	4230
296	4.7	130	4230
290	4.8	130	4230
259	5.4	130	4230
256	5.5	130	4230
229	6.1	130	4230
227	6.2	130	4230
203	5.9	130	4230
200	7.0	130	4230
179	7.8	130	4230
177	7.9	130	4230
166	8.4	130	4230
156	9.0	130	4230
150	9.3	130	4230
141	9.9	130	4230
135	10	130	4230
124	11	130	4230
118	12	130	4230
110	13	130	4230
104	13	130	4230
94	15	130	4230
90	16	130	4230

TR/TRF 37R17			200Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
8595	0.16	200	4950
7411	0.19	200	4950
6907	0.20	200	4950
6038	0.23	200	4950
5206	0.27	200	4950
4654	0.30	200	4950
4065	0.34	200	4950
3658	0.38	200	4950
3154	0.44	200	4950
2757	0.51	200	4950
2409	0.58	200	4950
2106	0.66	200	4950
1856	0.75	200	4950
1818	0.77	200	4950
1622	0.86	200	4950
1576	0.89	200	4950
1431	0.98	200	4950
1359	1.0	200	4950
1267	1.1	200	4950
1251	1.1	200	4950
1099	1.3	200	4950
1098	1.3	200	4950
970	1.4	200	4950
960	1.5	200	4950
847	1.7	200	4950
839	1.7	200	4950
741	1.9	200	4950
740	1.9	200	4950
653	2.1	200	4950
647	2.2	200	4950
577	2.4	200	4950
566	2.5	200	4950
508	2.8	200	4950
498	2.8	200	4950
439	3.2	200	4950
431	3.2	200	4950
387	3.6	200	4950
378	3.7	200	4950
338	4.1	200	4950
328	4.3	200	4950
296	4.7	200	4950
289	4.8	200	4950
265	5.3	200	4950
259	5.4	200	4950
228	6.1	200	4950
226	6.2	200	4950
202	6.9	200	4950
199	7.0	200	4950
179	7.8	200	4950
172	8.1	200	4950
156	9.0	200	4950
150	9.3	200	4950
135	10	200	4950
130	11	200	4950
127	11	200	4950
124	11	200	4950
110	13	200	4950
104	13	200	4950
94	15	200	4950
90	16	200	4950

TR/TRF47-57/R37..

n_a $n_e=1400$ 1/min

TR/TRF 47R37		300Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
13598	0.10	300	5420
12472	0.11	300	5420
10619	0.13	300	5420
9155	0.15	300	5420
8534	0.16	300	5420
7460	0.19	300	5420
6993	0.20	300	5420
6171	0.23	300	5420
5624	0.25	300	5420
4849	0.29	300	5420
4520	0.31	300	5420
3951	0.35	300	5420
3704	0.38	300	5420
3268	0.43	300	5420
2898	0.48	300	5420
2858	0.49	300	5420
2825	0.53	300	5420
2598	0.54	300	5420
2463	0.57	300	5420
2383	0.59	300	5420
2248	0.62	300	5420
2029	0.69	300	5420
1948	0.72	300	5420
1821	0.77	300	5420
1749	0.80	300	5420
1630	0.86	300	5420
1573	0.89	300	5420
1425	0.98	300	5420
1336	1.0	300	5420
1193	1.2	300	5420
1179	1.2	300	5420
1074	1.3	300	5420
1020	1.4	300	5420
955	1.5	300	5420
927	1.5	300	5420
863	1.6	300	5420
804	1.7	300	5420
755	1.9	300	5420
708	2.0	300	5420
673	2.1	300	5420
624	2.2	300	5420
572	2.4	300	5420
554	2.5	300	5420
546	2.6	300	5420
510	2.7	300	5420
502	2.8	300	5420
471	3.0	300	5420
436	3.2	300	5420
429	3.3	300	5420
408	3.4	300	5420
372	3.8	300	5420
348	4.0	300	5420
344	4.1	300	5420
301	4.7	300	5420
255	5.5	300	5420
228	6.1	300	5420
195	7.2	300	5420
182	7.7	300	5420
154	9.1	300	5420
129	11	300	5420
109	13	300	5420
98	14	300	5420

TR/TRF 57R37		450Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
14369	0.10	450	7110
12095	0.12	450	7110
10860	0.13	450	7110
9445	0.15	450	7110
8480	0.17	450	7110
7312	0.19	450	7110
6521	0.21	450	7110
5585	0.25	450	7110
4928	0.28	450	7110
4378	0.32	450	7110
3873	0.36	450	7110
3344	0.42	450	7110
2957	0.47	450	7110
2907	0.48	450	7110
2567	0.55	450	7110
2508	0.56	450	7110
2309	0.61	450	7110
2244	0.62	450	7110
1991	0.70	450	7110
1967	0.71	450	7110
1768	0.79	450	7110
1732	0.81	450	7110
1555	0.90	450	7110
1520	0.92	450	7110
1399	1.0	450	7110
1342	1.0	450	7110
1189	1.2	450	7110
1164	1.2	450	7110
1034	1.4	450	7110
1027	1.4	450	7110
894	1.6	450	7110
605	1.7	450	7110
782	1.8	450	7110
683	2.0	450	7110
678	2.1	450	7110
604	2.3	450	7110
603	2.3	450	7110
537	2.6	450	7110
534	2.6	450	7110
471	3.0	450	7110
454	3.1	450	7110
410	3.4	450	7110
359	3.9	450	7110
357	3.9	450	7110
324	4.3	450	7110
319	4.4	450	7110
290	4.8	450	7110
273	5.1	450	7110
262	5.3	450	7110
246	5.7	450	7110
241	5.8	450	7110
220	6.4	450	7110
215	6.5	450	7110
188	7.4	450	7110
187	7.5	450	7110
164	8.5	450	7110
159	8.8	450	7110
146	9.6	450	7110
142	9.9	450	7110
134	10	450	7110

TR/TRF67-77/R37..

n_a $n_e=1400$ 1/min

TR/TRF 67R37			600Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
15361	0.09	600	7170
12931	0.11	600	7170
11996	0.12	600	7170
10097	0.14	600	7170
9066	0.15	600	7170
7816	0.18	600	7170
6732	0.21	600	7170
5970	0.23	600	7170
5268	0.27	600	7170
4680	0.30	600	7170
4136	0.34	600	7170
3566	0.39	600	7170
3125	0.45	600	7170
2745	0.51	G00	7170
2682	0.52	600	7170
2460	0.57	600	7170
2403	0.58	600	7170
2136	0.56	600	7170
2094	0.67	600	7170
1852	0.76	600	7170
1805	0.78	600	7170
1652	0.85	600	7170
1629	0.86	600	7170
1471	0.95	600	7170
1432	0.98	600	7170
1379	1.0	600	7170
1259	1.1	600	7170
1109	1.3	600	7170
1106	1.3	600	7170
956	1.5	600	7170
891	1.6	600	7170
836	1.7	600	7170
750	1.9	600	7170
730	1.9	600	7170
646	2.2	600	7170
644	2.2	600	7170
574	2.4	600	7170
571	2.5	600	7170
495	2.8	600	7170
486	2.9	600	7170
443	3.2	600	7170
438	3.2	600	7170
388	3.6	600	7170
384	3.6	600	7170
359	3.9	600	7170
344	4.1	600	7170
310	4.5	600	7170
294	4.8	600	7170
264	5.3	600	7170
261	5.4	600	7170
235	6.0	600	7170
234	6.0	600	7170
201	7.0	600	7170
200	7.0	600	7170
181	7.7	600	7170
181	7.7	600	7290
176	8.0	600	7170
159	8.8	600	7170
158	8.9	600	7170

TR/TRF 77R37			820Nm
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
16370	0.09	820	9920
15015	0.09	820	9920
13885	0.10	820	9920
12783	0.11	820	9920
11021	0.13	820	9920
9788	0.14	820	9920
8714	0.16	820	9920
7617	0.18	820	9920
6770	0.21	820	9920
5838	0.24	820	9920
5184	0.27	820	9920
4470	0.31	820	9920
3999	0.35	820	9920
3488	0.40	820	9920
3151	0.44	820	9920
3053	0.46	820	9920
2890	0.48	820	9920
2671	0.52	820	9920
2460	0.57	820	9920
2345	0.60	820	9920
2121	0.66	820	9920
2070	0.68	820	9920
1977	0.71	820	9920
1822	0.77	820	9920
1728	0.51	820	9920
1620	0.86	820	9920
1580	0.89	820	9920
1430	0.98	820	9920
1394	1.0	820	9920
1303	1.1	820	9920
1218	1.1	820	9920
1124	1.2	820	9920
1084	1.3	820	9920
1047	1.3	820	9920
940	1.5	820	9920
915	1.5	820	9920
858	1.6	820	9920
821	1.7	820	9920
757	1.8	820	9920
731	1.9	820	9920
671	2.1	820	9920
646	2.2	820	9920
571	2.5	820	9920
560	2.5	820	9920
520	2.7	820	9920
488	2.9	820	9920
451	3.1	820	9920
436	3.2	820	9920
422	3.3	820	9920
373	3.8	820	9920
365	3.8	820	9920
327	4.3	820	9920
310	4.5	820	9920
289	4.8	820	9920
276	5.1	820	9920
260	5.4	820	9920
236	5.9	820	9920
224	6.2	820	9920
221	6.3	820	9920
197	7.1	820	9920
186	7.5	820	9920
169	8.3	820	9920
149	9.4	820	9920

TR/TRF87-97/R57..

$n_a \quad n_e=1400 \quad 1/\text{min}$

TR/TRF 87R57		1550Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
17452	0.08	1550	16900
15310	0.09	1550	16900
13813	0.10	1550	16900
12025	0.12	1550	16900
10549	0.13	1550	16900
9244	0.15	1550	16900
8109	0.17	1550	16900
7038	0.20	1550	16900
6174	0.23	1550	16900
5449	0.26	1550	16900
4831	0.29	1550	16900
4205	0.33	1550	16900
4020	0.35	1550	16900
3744	0.37	1550	16900
3703	0.38	1550	16900
3233	0.43	1550	16900
3182	0.44	1550	16900
2873	0.49	1550	16900
2770	0.51	1550	16900
2595	0.54	1550	16900
2518	0.56	1550	16900
2209	0.63	1550	16900
2129	0.66	1550	16900
1951	0.71	1550	16900
1930	0.73	1550	16900
1737	0.81	1550	16900
1733	0.81	1550	16900
1524	0.92	1550	16900
1489	0.94	1550	16900
1395	1.0	1550	16900
1303	1.1	1550	16900
1232	1.1	1550	16900
1145	1.2	1550	16900
1143	1.2	1 550	16900
1037	1.4	1 550	16900
1008	1.4	1 550	16900
994	1.4	1550	16900
931	1.5	1550	16900
885	1.6	1550	16900
881	1.6	1550	16900
802	1.7	1550	16900
775	1.8	1550	16900
754	1.9	1550	16900
585	2.0	1550	16900
649	2.2	1550	16900
599	2.3	1550	16900
580	2.4	1550	16900
538	2.6	1550	16900
525	2.7	1550	16900
472	3.0	1550	16900
455	3.1	1550	16900
400	3.5	1550	16900
398	3.5	1550	16900
351	3.9	1550	16900
352	4.0	1550	16900
305	4.6	1550	16900
300	4.7	1550	16900
258	5.2	1550	16900
256	5.5	1550	16900
236	5.9	1550	16900
232	6.0	1 550	16900
232	6.0	1550	17300
209	6.7	1550	16900
195	7.2	1150	16900

TR/TRF 97R57		3000Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
21769	0.06	3000	19800
19332	0.07	3000	19800
17230	0.08	3000	19800
14999	0.09	3000	19800
13320	0.11	3000	19800
11156	0.13	3000	19800
10030	0.14	3000	19800
8706	0.16	3000	19800
7692	0.18	3000	19800
6708	0.21	3000	19800
5931	0.24	3000	19800
5161	0.27	3000	19800
4678	0.30	3000	19800
4559	0.31	3000	19800
4309	0.32	3000	19800
4004	0.35	3000	19800
3702	0.38	3000	19800
3481	0.40	3000	19800
3065	0.46	3000	19800
3019	0.46	3000	19800
2722	0.51	3000	19800
2668	0.52	3000	19800
2311	0.61	3000	19800
2245	0.62	3000	19800
2078	0.67	3000	19800
2016	0.69	3000	19800
1823	0.77	3000	19800
1733	0.81	3000	19800
1623	0.86	3000	19800
1583	0.88	3000	19800
1434	0.98	3000	19800
1396	1.0	3000	19800
1228	1.1	3000	19800
1207	1.2	3000	19800
1084	1.3	3000	19800
1069	1.3	3000	19600
938	1.5	3000	19800
934	1.5	3000	19800
878	1.6	3000	19800
824	1.7	3000	19800
755	1.9	3000	19800
737	1.9	3000	19800
632	2.2	3000	19800
625	2.2	3000	19800
560	2.5	3000	19800
549	2.6	3000	19800
484	2.9	3000	19800
466	3.0	3000	19800
431	3.2	3000	19800
420	3.3	3000	19800
379	3.7	3000	19800
370	3.8	3000	19800
349	4.0	3000	19800
336	4.2	3000	19800
297	4.7	3000	19800
296	4.7	3000	19800
270	5.2	3000	19800
249	5.6	3000	19800
234	6.0	3000	19800
227	6.2	3000	19800
209	6.7	3000	19800
249	5.6	3000	19800

TR/TRF107-137/R77..

n_a $n_e=1400$ 1/min

TR/TRF 107R77		4300Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
20018	0.07	4300	29500
17080	0.08	4300	29500
14936	0.09	4300	29500
12829	0.11	4300	29500
11256	0.12	4300	29500
9547	0.15	4300	29500
8618	0.16	4300	29500
7583	0.18	4300	29500
6743	0.21	4300	29500
5914	0.24	4300	29500
5168	0.27	4300	29500
4435	0.32	4300	29500
3918	0.36	4300	29500
3896	0.35	4300	29500
3432	0.41	4300	29500
3343	0.42	4300	29500
3039	0.46	4300	29500
3034	0.46	4300	29500
2688	0.52	4300	29500
2653	0.53	4300	29500
2339	0.60	4300	29500
2280	0.61	4300	29500
2067	0.68	4300	29500
1987	0.70	4300	29500
1827	0.77	4300	29500
1693	0.83	4300	29500
1599	0.88	4300	29500
1550	0.90	4300	29500
1407	1.0	4300	29500
1400	1.0	4300	29500
1226	1.1	4300	29500
1209	1.2	4300	29500
1104	1.3	4300	29500
1055	1.3	4300	29500
939	1.5	4300	29500
919	1.5	4300	29500
822	1.7	4300	29500
815	1.7	4300	29500
717	2.0	4300	29500
626	2.2	4300	29500
614	2.3	4300	29500
544	2.6	4300	29500
528	2.7	4300	29500
492	2.8	4300	29500
469	3.0	4300	29500
426	3.3	4300	29500
417	3.4	4300	29500
377	3.7	4300	29500
369	3.8	4300	29500
325	4.3	4300	29500
323	4.3	4300	29500
285	4.9	4300	29500
284	4.9	4300	29500
255	5.5	4300	29500
253	5.5	4300	29500
220	6.4	4300	29500
214	6.5	4300	29500
193	7.3	4300	29500
187	7.5	4300	29500
172	8.1	4300	29500

TR/TRF 137R77		8000Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
22203	0.06	8000	53400
18945	0.07	8000	53400
16566	0.08	8000	53400
14777	0.09	8000	53400
12921	0.11	8000	53400
11712	0.12	8000	53400
10573	0.13	8000	53400
8784	0.16	8000	53400
7479	0.19	8000	53400
6559	0.21	8000	53400
5834	0.24	8000	53400
5115	0.27	8000	53400
4709	0.30	8000	53400
4464	0.31	8000	53400
4018	0.35	8000	53400
3928	0.36	8000	53400
3514	0.40	8000	53400
3454	0.41	8000	53400
3330	0.42	8000	53400
2993	0.47	8000	53400
2929	0.48	8000	53400
2658	0.53	8000	53400
2484	0.56	8000	53400
2412	0.58	8000	53400
2242	0.62	8000	53400
2073	0.88	8000	53400
1863	0.75	8000	53400
1839	0.76	8000	53400
1598	0.88	8000	53400
1586	0.88	8000	53400
1397	1.0	8000	53400
1391	1.0	8000	53400
1256	1.1	8000	53400
1226	1.1	8000	53400
1105	1.3	8000	53400
1090	1.3	8000	53400
1043	1.3	8000	53400
951	1.5	8000	53400
888	1.6	8000	53400
831	1.7	8000	53400
730	1.9	8000	53400
699	2.0	8000	53400
529	2.2	8000	53400
609	2.3	8000	53400
564	2.5	8000	53400
560	2.5	8000	53400
517	2.7	8000	53400
490	2.9	8000	53400
453	3.1	8000	53400
428	3.3	8000	53400
381	3.7	8000	53400
376	3.7	8000	53400
339	4.1	8000	53400
323	4.3	8000	53400
297	4.7	8000	53400
291	4.8	8000	53400
255	5.5	8000	53400
223	6.3	8000	53400
197	7.1	8000	53400
175	8.0	8000	53400

TR/TRF147/R77, TR/TRF147/R87..

n_a $n_e=1400$ 1/min

TR/TRF 147R77		13000Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
23401	0.06	13000	62700
21342	0.07	13000	62700
16210	0.08	13000	62700
15923	0.09	13000	62700
14075	0.10	13000	62700
12344	0.11	13000	62700
11143	0.13	13000	62700
9743	0.14	13000	62700
8443	0.17	13000	62700
7307	0.19	13000	62700
6447	0.22	13000	62700
5568	0.25	13000	62700
4926	0.28	13000	62700
4325	0.32	13000	62700
3754	0.37	13000	62700
3302	0.42	13000	62700
2898	0.48	13000	62700
2555	0.55	13000	62700
2211	0.63	13000	62700
1951	0.72	13000	62700
1705	0.82	13000	62700
1536	0.91	13000	62700
1329	1.1	13000	62700
1166	1.2	13000	62700
1029	1.4	13000	62700
889	1.6	13000	62700
784	1.8	13000	62700
695	2.0	13000	62700
619	2.3	13000	62700
558	2.5	13000	62700
489	2.9	13000	62700
415	3.4	13000	62700

TR/TRF 147R87		13000Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
533	2.6	13000	62700
462	3.0	13000	62700
426	3.3	13000	62700
368	3.8	13000	52700
325	4.3	13000	52700
280	5.0	13000	52700
247	5.7	13000	62700
214	6.5	13000	62700
189	7.4	13000	62700
159	8.8	13000	62700

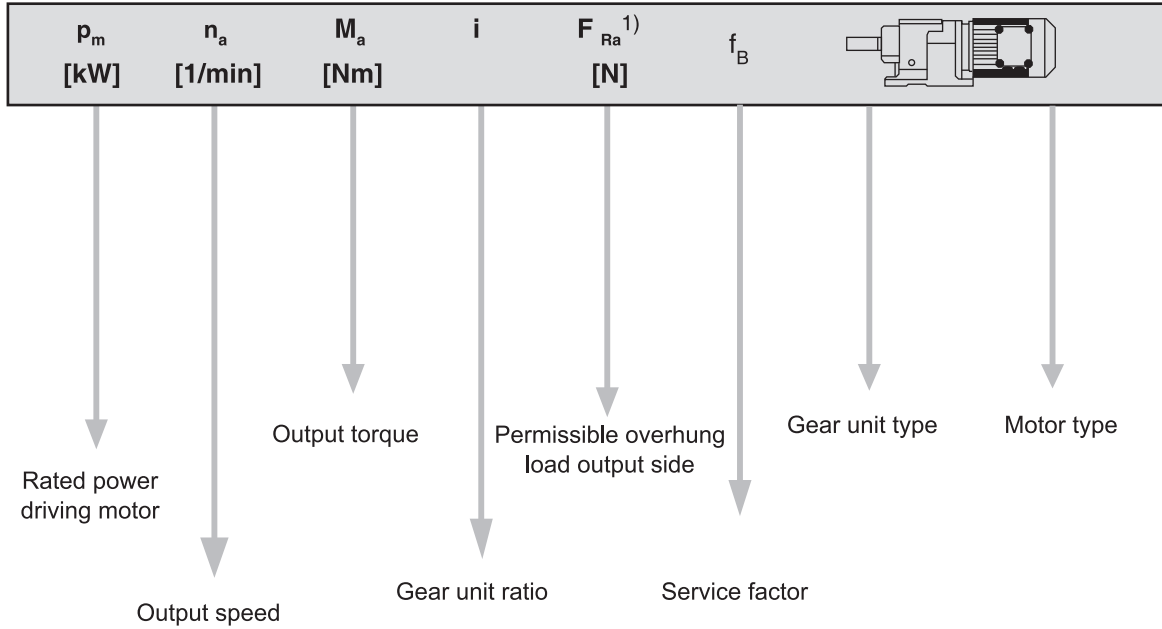
TR/TRF167/R97,TR/TRF167/R107..

$n_a \quad n_e=1400 \quad 1/\text{min}$

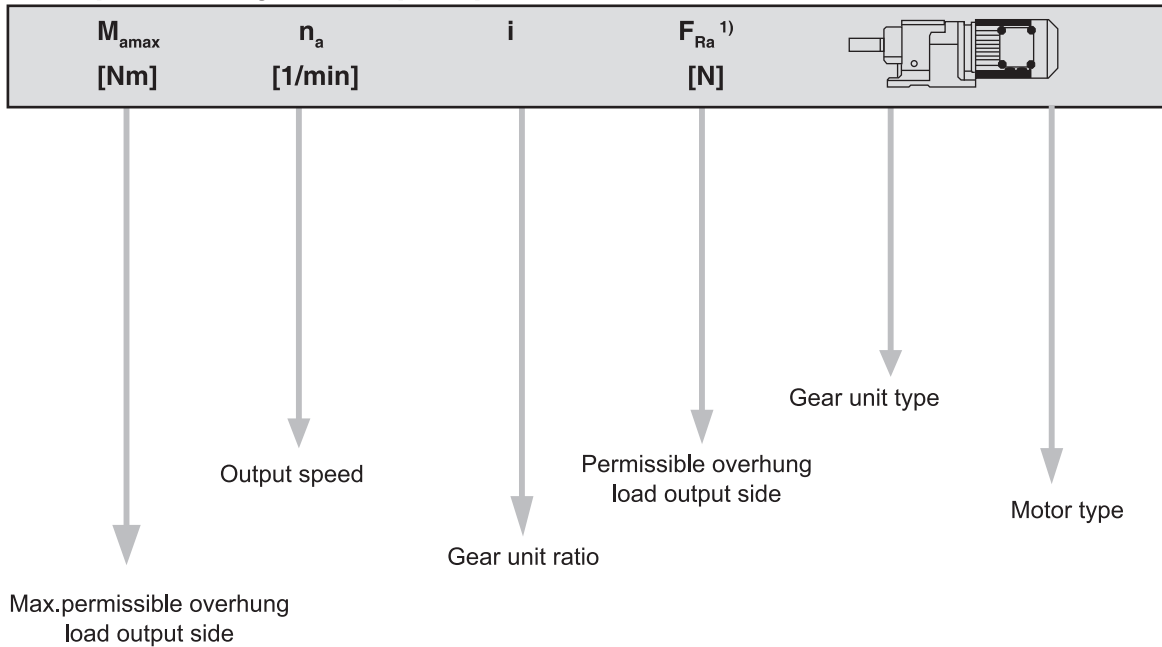
TR/TRF 167R97		18000Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
27001	0.05	18000	120000
22482	0.06	18000	120000
20002	0.07	18000	120000
17361	0.08	18000	120000
15446	0.09	18000	120000
14051	0.10	18000	120000
11812	0.12	18000	120000
10509	0.13	18000	120000
9631	0.15	18000	120000
7749	0.18	18000	120000
6894	0.20	18000	120000
6077	0.23	18000	120000
5407	0.26	18000	120000
4650	0.30	18000	120000
4129	0.34	18000	120000
3692	0.38	18000	120000
3099	0.45	18000	120000
2657	0.53	18000	120000
2333	0.60	18000	120000
2085	0.67	18000	120000
1877	0.75	18000	120000
1670	0.84	18000	120000
1438	0.97	18000	120000
1279	1.1	18000	120000
1123	1.2	18000	1 20000
999	1.4	18000	120000
661	1.5	18000	120000
760	1.8	18000	120000
656	2.1	18000	120000
579	2.4	18000	120000
503	2.8	18000	120000
432	3.2	18000	120000
376	3.7	18000	120000
335	4.2	18000	120000
303	4.6	18000	120000
279	5.0		120000

TR/TRF 167R107		18000Nm	
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]
3637	0.38	18000	120000
3330	0.42	18000	120000
2757	0.51	18000	120000
2436	0.57	18000	120000
2298	0.61	18000	120000
2066	0.68	18000	120000
1849	0.76	18000	120000
1674	0.84	18000	120000
1485	0.94	18000	120000
1342	1.0	18000	120000
1229	1.1	18000	120000
1111	1.3	18000	120000
950	1.5	18000	120000
860	1.6	18000	120000
763	1.8	18000	120000
690	2.0	18000	120000
585	2.4	18000	120000
511	2.7	18000	1 20000
446	3.1	18000	120000
399	3.5	18000	120000
361	3.9	18000	120000
349	4.0	18000	120000
328	4.3	18000	120000
295	4.7	18000	120000
291	4.8	18000	120000
270	5.2	18000	120000
264	5.3	18000	120000
229	5.1	18000	120000
227	6.2	18000	120000
200	7.0	18000	120000
198	7.1	18000	120000
169	8.3	18000	120000
168	8.3	18000	120000

Selection table for geared motors



For particularly low output speeds



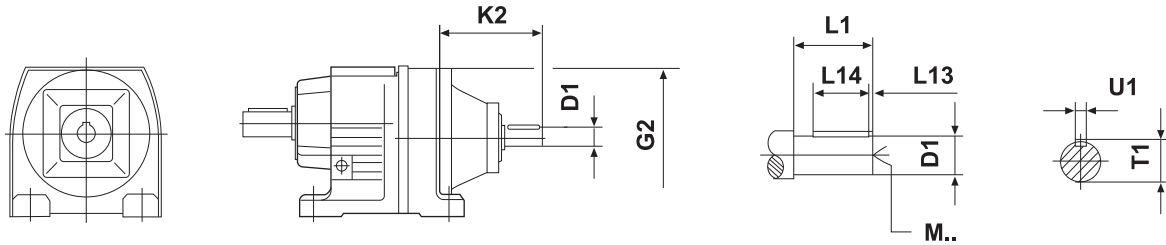
Cuttine

*EEXE motor is optional

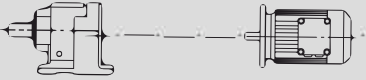
1) Overhung load specied for foot-mounted gear unit with solid shaft
notice:

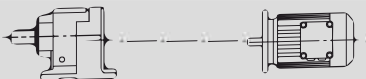
In drives for particularly low output speeds (multi-stage geared motors) the motor power must be limited according to the maximum permitted output torque of the gear unit

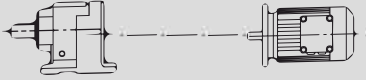
TR/TRF..AD..





		G2	K2	D1	L1	L13	L14	T1	U1	M
TR/TRF.. 27 TR/TRF.. 37	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
TR/TRF..47,R..57 R..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
TR/TRF..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
TR/TRF..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
TR/TRF..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16
TR/TRF..107	AD3	350	145	28	60	5	50	31	8	M10
	AD4		208	38	80	5	70	41	10	M12
	AD5		281	42	110	10	70	45	12	M16
	AD6		321	48	110	10	80	51.5	14	M16
TR/TRF..137	AD4	400	201	38	80	5	70	41	10	M12
	AD5		274	42	110	10	70	45	12	M16
	AD6		314	48	110	10	80	51.5	14	M16
	AD7		308	55	110	10	90	59	16	M20
TR/TRF..147	AD4	450	193	38	80	5	70	41	10	M12
	AD5		266	42	110	10	70	45	12	M16
	AD6		306	48	110	10	80	51.5	14	M16
	AD7		300	55	110	10	90	59	16	M20
	AD8		383	70	140	15	110	74.5	20	M20
TR/TRF..167	AD5	550	258	42	110	10	70	45	12	M16
	AD6		298	48	110	10	80	51.5	14	M16
	AD7		292	55	110	10	90	59	16	M20
	AD8		374	70	140	15	110	74.5	20	M20

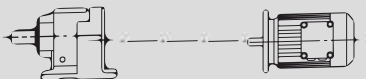
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s		Page	
0.12	0.06	13300	21342	62000	1.00	TR 147 / TRF 77	YDA 63S4	149
	0.08	11400	18210	65700	1.15			TRF 147 / TRF 77
	0.09	9930	15923	67900	1.30			
	0.10	8780	14075	69400	1.50			
	0.11	7650	12344	70700	1.70			
	0.12	6740	11143	71500	1.95			
	0.14	6040	9743	72200	2.2			
	0.15	4830	8443	73100	2.7			
	0.19	4180	7307	73400	3.1			
	0.21	3690	5447	73700	3.5			
	0.25	3190	5568	73900	4.1			
	0.11	8060	12921	53300	1.00	TR 137 / TRF 77	YDA 63S4	149
	0.12	7260	11712	54900	1.10	TRF 137 / TRF 77		149
	0.13	6390	10573	55400	1.25			
	0.16	5030	8784	58400	1.50			
	0.18	4090	7479	59400	1.95			
	0.21	4060	6559	59400	1.95			
	0.24	3190	5834	60200	2.5			
	0.27	3170	5116	60200	2.5			
	0.18	4410	7583	28800	0.95	TR 107 / TRF 77	YDA 63S4	149
	0.20	3690	6743	32400	1.15	TRF 107 / TRF 77		149
	0.23	3660	5914	32500	1.15			
	0.27	2830	5168	35500	1.50			
	0.31	2540	4435	35100	1.70			
	0.35	2270	3896	35500	1.90			
	0.45	1880	3039	35900	2.3			
	0.35	2470	3918	35200	1.75	TR 107 / TRF 77	YDA 63S4	149
	0.41	2110	3343	35700	2.0	TRF 107 / TRF 77		149
	0.45	1910	3034	35900	2.3			
	0.52	1670	2653	37100	2.5			
	0.61	1440	2280	37300	3.0			
	0.67	1300	2067	37400	3.3			
	0.30	3050	4559	17700	1.00	TR 97 / TRF 57	YDA 63S4	149
	0.34	2570	4004	23700	1.15	TRF 97 / TRF 57		149
	0.40	2270	3481	25200	1.30			
	0.29	3240	4678	18400	0.95	TR 97 / TRF 57	YDA 63S4	149
	0.32	2970	4309	20400	1.00	TRF 97 / TRF 57		149
	0.37	2550	3702	23700	1.15			
	0.45	2080	3019	25100	1.45			
	0.52	1810	2668	27100	1.65			
	0.61	1480	2245	27700	2.00			
	0.68	1310	2016	27900	2.30			
	0.80	1200	1733	28000	2.50			
	0.45	2120	3065	25900	1.4	TR 97 / TRF 57	YDA 63S4	149
	0.51	1880	2722	25800	1.5	TRF 97 / TRF 57		149
	0.60	1590	2311	27500	1.9			
	0.66	1430	2078	27700	2.1			
	0.75	1240	1823	28000	2.4			
0.87	1070	1583	28200	2.8				
0.99	910	1396	28300	3.3				
1.10	775	1228	28400	3.9				
0.48	1770	2873	15200	0.90	TR 87 / TRF 57	YDA 63S4	149	
0.70	1300	1961	18500	1.20	TRF 87 / TRF 57		149	
0.53	1790	2595	15000	0.85	TR 87 / TRF 57	YDA 63S4	149	
0.65	1430	2129	17700	1.10	TRF 87 / TRF 57		149	
0.72	1270	1930	18500	1.20				
0.80	1120	1733	19300	1.40				


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.12	0.79	1150	1737	19200	1.35	TR	87 / TRF 57	YDA 63S4	149
	0.91	1010	1524	19800	1.55	TRF	87 / TRF 57	YDA 63S4	149
	1.1	810	1303	20000	1.90				
	1.2	710	1143	20000	2.20				
	1.6	585	885	20000	2.70				
	1.8	515	776	20000	3.00				
	2.0	450	685	20000	3.40				
	2.3	360	599	20000	4.30				
	1.1	940	1303	8660	0.85	TR	77 / TRF 37	YDA 63S4	149
	1.2	800	1124	10100	1.05	TRF	77 / TRF 37	YDA 63S4	149
	1.3	740	1047	10600	1.10				
	1.5	640	915	11300	1.30				
	1.1	820	1218	9910	1.00	TR	77 / TRF 37	YDA 63S4	149
	1.3	740	1084	10600	1.10	TRF	77 / TRF 37	YDA 63S4	149
	1.5	665	940	11200	1.25				
	1.7	525	821	12000	1.55				
	1.9	480	731	12200	1.70				
	2.1	450	646	12300	1.80				
	2.6	380	520	12600	2.20	TR	77 / TRF 37	YDA 63S4	149
	3.1	325	451	12700	2.50	TRF	77 / TRF 37	YDA 63S4	149
	3.3	300	422	12800	2.70				
	3.8	255	365	12900	3.20				
	1.6	630	891	7190	0.95	TR	67 / TRF 37	YDA 63S4	149
	1.9	505	730	8530	1.20	TRF	67 / TRF 37	YDA 63S4	149
	2.1	440	644	9060	1.35				
	2.4	385	571	9430	1.55				
	2.8	320	486	9790	1.85				
	1.7	590	836	7670	1.00	TR	67 / TRF 37	YDA 63S4	149
	1.8	495	750	8530	1.20	TRF	67 / TRF 37	YDA 63S4	149
	2.1	440	646	9050	1.35				
	2.4	400	574	9330	1.50				
	2.8	345	495	9660	1.75				
	3.1	255	438	9940	2.10				
	1.8	550	782	4650	0.80	TR	57 / TRF 37	YDA 63S4	149
	2.0	455	678	7070	1.00	TRF	57 / TRF 37	YDA 63S4	149
	2.3	415	604	7260	1.10				
	2.6	375	537	7400	1.20				
	2.9	330	471	7550	1.35				
	3.9	245	357	7770	1.85				
	4.3	215	319	7830	2.10				
	3.8	260	359	7730	1.75	TR	57 / TRF 37	YDA 63S4	149
	4.3	235	324	7790	1.95	TRF	57 / TRF 37	YDA 63S4	149
	4.8	205	290	7840	2.20				
	5.3	185	262	7880	2.40				
	5.6	171	246	7900	2.50				
	6.3	150	220	7930	3.00				
	2.7	345	510	4360	0.85	TR	47 / TRF 37	YDA 63S4	149
	3.2	285	436	5490	1.05	TRF	47 / TRF 37	YDA 63S4	149
	3.4	265	408	5590	1.10				
	4.0	220	344	5790	1.35				
2.8	365	502	3020	0.80	TR	47 / TRF 37	YDA 63S4	149	
3.2	315	429	5350	0.95	TRF	47 / TRF 37	YDA 63S4	149	
3.7	270	372	5580	1.10					
4.0	250	348	5570	1.20					
4.6	210	301	5810	1.40					
5.4	177	255	5930	1.70					
6.0	156	228	5980	1.95					
7.1	130	195	6040	2.30					

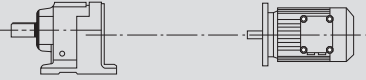
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.12	4.6	250	195.24*	12900	3.3	TR	77	YDA 63M6	133
	5.4	210	166.59	13000	3.9	TRF	77	YDA 63M6	134
	6.2	186	145.67	13000	4.4				
	4.5	255	199.81	10100	2.4	TR	67	YDA 63M6	130
	4.9	235	184.07	10100	2.6	TRF	67	YDA 63M6	131
	5.7	200	158.14	10300	3.0				
	5.5	175	137.57	10300	3.4				
	7.0	164	128.97	10400	3.7				
	7.9	145	113.94	10400	4.1				
	5.9	155	199.81	10300	3.5	TR	67	YDA 63S4	130
	7.5	153	184.07	10400	3.9	TRF	67	YDA 63S4	131
	4.8	240	186.89	7780	1.9	TR	57	YDA 63M6	127
	5.2	220	172.17	7820	2.1	TRF	57	YDA 63M6	128
	6.1	188	147.92	7870	2.4				
	7.0	154	128.77	7910	2.7				
	7.5	154	120.63	7920	2.9				
	8.4	135	106.58	7950	3.3				
	9.1	126	98.99	7960	3.5				
	7.4	155	186.89	7920	2.9	TR	57	YDA 63S4	127
	8.0	143	172.17	7940	3.2	TRF	57	YDA 63S4	128
	9.3	123	147.92	7960	3.7				
	11	107	128.77	7980	4.2				
	5.1	225	176.88	5760	1.35	TR	47	YDA 63M6	124
	5.5	210	162.94	5830	1.45	TRF	47	YDA 63M6	125
	5.4	178	139.99	5920	1.70				
	7.4	155	121.87	5980	1.95				
	7.8	147	176.88	6000	2.0	TR	47	YDA 63S4	124
	8.5	135	152.94	6030	2.2	TRF	47	YDA 63S4	125
	9.9	116	139.99	6070	2.6				
	11	101	121.87	6100	3.0				
	12	95	114.17	6110	3.2				
	14	84	100.86	6120	3.6				
	15	78	93.68	6130	3.9				
	5.7	172	134.82	5270	1.15	TR	37	YDA 63M6	121
	7.3	157	123.55	5410	1.25	TRF	37	YDA 63M6	122
	8.6	134	105.28	5600	1.50				
	9.9	116	90.77	5730	1.75				
	11	108	84.51	5770	1.85				
	12	94	73.96	5850	2.10				
	10	112	134.82	5750	1.80	TR	37	YDA 63S4	121
	11	103	123.65	5800	1.95	TRF	37	YDA 63S4	122
	13	87	105.28	5880	2.30				
	15	75	90.77	5930	2.70				
	15	70	84.61	5950	2.80				
	19	61	73.96	5980	3.30				
	7.3	158	123.91	4090	0.80	TR	27	YDA 63M6	118
	8.5	134	105.49	4210	0.95	TRF	27	YDA 63M6	119
	9.9	116	90.96	4300	1.10				
11	108	84.78	4330	1.20					
12	94	74.11	4370	1.40					
10	112	135.09	4310	1.15	TR	27	YDA 63S4	118	
11	103	123.91	4340	1.25	TRF	27	YDA 63S4	119	
13	85	105.49	4390	1.50					
15	76	90.96	4430	1.70					
15	70	84.78	4440	1.85					
19	62	74.11	4460	2.1					
20	58	69.47	4470	2.3					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.12	23	51	61.30	4400	2.6	TR	27	YDA 63S4	118
	25	46	55.87	4280	2.8				TRF
	29	40	48.17	4090	3.3				
	31	37	44.90	4000	3.5				
	227	5	6.07	4270	8.6	TRX	67	YDA 63S4	108
	267	4.3	5.18	4050	17				TRXF
	305	3.8	4.53	3870	22				
	321	3.6	4.30*	3810	22				
	251	4.6	5.50*	3360	8.5	TRX	57	YDA 63S4	106
	272	4.2	5.07	3270	8.6				TRXF
	317	3.6	4.35	3120	19				
	364	3.1	3.79	2980	22				
	369	2.9	3.55*	2910	24				
	440	2.6	3.14	2800	25				
	474	2.4	2.91	2730	28				
	523	2.2	2.64*	2640	31				
	582	2	2.37	2550	35				
	676	1.7	2.04	2430	41				
	719	1.6	1.92*	2380	43				
	835	1.4	1.65	2260	49				
0.18	0.09	15000	14075	60900	0.85	TR	147 / TRF77	YDA 63M4	149
	0.11	13100	12344	62500	1.0				TRF
	0.12	11600	11143	65200	1.1				
	0.14	10300	9743	57300	1.25				
	0.16	8550	8443	59700	1.50				
	0.18	7400	7307	70900	1.75				
	0.20	6530	6447	71800	2.0				
	0.24	5640	5588	72500	2.3				
	0.27	5150	4925	72800	2.5				
	0.31	4420	4325	73300	2.9				
	0.35	3920	3754	73600	3.3				
	0.40	3380	3302	73800	3.9				
	0.15	8900	8784	50100	0.9	TR	137 / TRF77	YDA 63M4	149
	0.18	7390	7479	54600	1.1				TRF
	0.20	6950	6559	55500	1.15				
	0.23	5770	5834	57400	1.4				
	0.26	5420	5115	57900	1.5				
	0.30	4520	4454	59000	1.75				
	0.34	3980	3928	59500	2.0				
	0.28	5060	4709	58300	1.6	TR	137 / TRF77	YDA 63M4	149
	0.33	4320	4018	59200	1.85				TRF
	0.38	3780	3514	59700	2.1				
	0.40	3590	3338	59900	2.2				
	0.45	3150	2929	60200	2.5				
	0.30	4490	4435	28400	0.95	TR	107 / TRF77	YDA 63M4	149
	0.34	3980	3895	31100	1.10				TRF
	0.43	3220	3039	34200	1.35				
	0.34	4210	3918	29900	1.00	TR	107 / TRF77	YDA 63M4	149
	0.39	3590	3343	32800	1.20				TRF
	0.44	3260	3034	34100	1.30				
	0.50	2850	2553	35400	1.50				
	0.58	2450	2280	36200	1.75				
	0.64	2220	2067	36500	1.95				
	0.66	2100	1987	36700	2.10				
	0.72	1870	1827	36900	2.30				
	0.83	1600	1599	37200	2.70				
	0.94	1440	1400	37300	3.00				
	1.10	1230	1225	37400	3.50				

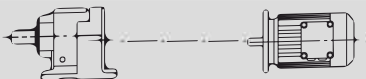
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s		Page
0.18	0.49	3000	2668	20000	1.00	TR 97 / TRF57	YDA 63M4 149
	0.59	2480	2245	24200	1.20	TRF 97 / TRF57	YDA 63M4 149
	0.65	2210	2016	25500	1.35		
	0.76	1970	1733	26500	1.50		
	0.81	1840	1623	27000	1.65		
	0.92	1610	1434	27500	1.85		
	1.1	1330	1207	27900	2.30		
	1.2	1190	1084	28000	2.50		
	1.4	1000	934	28200	3.00		
	1.5	940	878	28300	3.20		
	1.8	790	755	28400	3.80		
	0.49	3090	2722	15900	0.95	TR 97 / TRF57	YDA 63M4 149
	0.57	2620	2311	23400	1.15	TRF 97 / TRF57	YDA 63M4 149
	0.64	2360	2078	24800	1.25		
	0.89	1690	1489	15900	0.90	TR 87 / TRF57	YDA 63M4 149
	0.95	1580	1395	16700	1.00	TRF 87 / TRF57	YDA 63M4 149
	1.1	1380	1232	18000	1.10		
	1.2	1280	1145	18600	1.20		
	1.3	1150	1037	19200	1.35		
	1.4	1020	931	19800	1.50		
	1.7	860	802	20000	1.80		
	1	1680	1524	15900	0.90	TR 87 / TRF57	YDA 63M4 149
	1.0	1390	1303	17900	1.10	TRF 87 / TRF57	YDA 63M4 149
	1.2	1220	1143	18900	1.25		
	1.5	980	885	19900	1.50		
	1.7	860	776	20000	1.80		
	1.5	980	858	5830	0.85	TR 77 / TRF37	YDA 63M4 149
	1.7	850	757	9590	0.95	TRF 77 / TRF37	YDA 63M4 149
	2.0	750	671	10500	1.10		
	2.3	630	571	11400	1.30		
	1.6	890	821	9230	0.90	TR 77 / TRF37	YDA 63M4 149
	1.8	800	731	10100	1.00	TRF 77 / TRF37	YDA 63M4 149
	2.0	745	646	10500	1.10		
	2.4	645	560	11300	1.25		
	2.7	550	488	11800	1.50		
	3.0	490	436	12100	1.70		
	3.5	420	373	12400	1.95		
	4.0	370	327	12600	2.20		
	4.5	330	289	12700	2.50		
	2.3	640	571	7060	0.95	TR 67 / TRF37	YDA 63M4 149
	2.7	535	486	8250	1.10	TRF 67 / TRF37	YDA 63M4 149
	2.3	655	574	5820	0.90	TR 67 / TRF37	YDA 63M4 149
	2.7	565	495	7950	1.05	TRF 67 / TRF37	YDA 63M4 149
	3.0	480	438	8740	1.25		
	3.4	425	388	9150	1.40		
	3.8	395	344	9380	1.55		
	4.5	320	294	9800	1.90		
	5.1	290	261	9920	2.10		
	2.9	500	454	5650	0.9	TR 57 / TRF37	YDA 63M4 149
	3.2	455	410	7090	1.0	TRF 57 / TRF37	YDA 63M4 149
	2.8	540	471	5250	0.85	TR 57 / TRF37	YDA 63M4 149
	3.7	405	357	7300	1.10	TRF 57 / TRF37	YDA 63M4 149
4.1	355	319	7460	1.25			
4.8	300	273	7630	1.50			
5.5	260	241	7730	1.75			
6.1	235	215	7790	1.95			

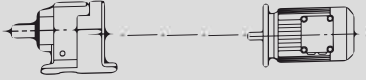
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.18	3.7	420	359	7230	1.05	TR	57 / TRF37	YDA 63M4	149
	4.1	380	324	7380	1.20	TRF	57 / TRF37	YDA 63M4	149
	4.5	335	290	7530	1.35				
	5.0	305	262	7620	1.50				
	5.4	280	246	7680	1.60				
	6.0	250	220	7750	1.80				
	7.0	210	188	7830	2,10				
	8.3	177	159	7890	2.60				
	4.4	350	301	4150	0.85	TR	47 / TRF37	YDA 63M4	149
	5.2	290	255	5460	1.05	TRF	47 / TRF37	YDA 63M4	149
	5.8	260	228	5630	1.15				
	6.8	220	195	5790	1.40				
	4.5	385	195.24*	12500	2.1	TR	77	YDA 63L6	133
	5.2	330	166.59	12700	2.5	TRF	77	YDA 63L6	134
	6.0	290	145.67	12800	2.9				
	5.3	275	138.39	12900	3.0				
	7.2	240	121.42	12900	3.4				
	6.8	255	195.24*	12900	3.2	TR	77	YDA 63M4	133
	7.9	215	166.59	13000	3.8	TRF	77	YDA 63M4	134
	9.1	190	145.67	13000	4.3				
	9.5	180	138.39	13000	4.6				
	4.4	395	199.81	9370	1.5	TR	67	YDA 63L6	130
	4.7	365	184.07	9560	1.65	TRF	67	YDA 63L6	131
	5.5	310	158.14	9830	1.9				
	6.3	270	137.67	10000	2.2				
	6.8	255	128.97	10100	2.4				
	7.6	225	113.94	10200	2.7				
	8.2	210	105.83	10200	2.9				
	9.1	190	95.91	10300	3.2				
	10	170	86.11	10300	3.5				
	12	147	74.17	10400	4.1				
	12	138	69.75	10400	4.4				
	6.6	260	199.81	10100	2.3	TR	67	YDA 63M4	130
	7.2	240	184.07	10100	2.5	TRF	67	YDA 63M4	131
	8.3	205	158.14	10200	2.9				
	9.6	179	137.67	10300	3.4				
	10	188	128.97	10300	3.5				
	12	148	113.94	10400	4.0				
	12	138	105.83	10400	4.4				
	4.7	370	186.89	7420	1.2	TR	57	YDA 63L6	127
	5.0	340	172.17	7510	1.3	TRF	57	YDA 63L6	128
	5.9	290	147.92	7650	1.55				
	6.8	255	128.77	7740	1.75				
	7.2	240	120.63	7780	1.9				
	7.1	245	186.89	7770	1.85	TR	57	YDA 63M4	127
	7.7	225	172.17	7810	2.0	TRF	57	YDA 63M4	128
	8.9	193	147.92	7870	2.3				
	10	168	128.77	7900	2.7				
	11	157	120.63	7920	2.9				
	12	139	106.58	7940	3.2				
13	129	98.99	7950	3.5					
15	117	89.71	7970	3.9					
7.5	230	176.88	5740	1.3	TR	47	YDA 63M4	124	
8.1	210	162.94	5810	1.4	TRF	47	YDA 63M4	125	
9.4	182	139.99	5910	1.65					
11	159	121.87	5980	1.9					
12	149	114.17	6000	2.0					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.18	13	131	100.86	6040	2.3	TR	47	YDA 63M4	124
	14	122	93.68	6060	2.5				TRF
	16	111	84.90	6080	2.7				
	17	99	76.23	6100	3.0				
	7.0	245	123.66	3060	0.8	TR	37	YDA 63L6	121
	8.3	210	105.28	4840	0.95				TRF
	9.6	179	90.77	5190	1.10				
	10	167	84.61	5310	1.20				
	9.8	176	134.82	5230	1.15	TR	37	YDA 63M4	121
	11	161	123.66	5370	1.25				TRF
	13	137	105.28	5580	1.45				
	15	118	90.77	5710	1.7				
	16	110	84.61	5760	1.8				
	18	96	73.96	5840	2.1				
	19	90	69.33	5870	2.2				
	22	80	61.18	5920	2.5				
	24	73	55.76	5940	2.8				
	27	B3	48.08	5960	3.2				
	11	161	123.91	4070	0.8	TR	27	YDA 63M4	118
	13	137	105.49	4200	0.95				TRF
	15	118	90.96	4280	1.10				
	16	110	84.78	4320	1.20				
	18	97	74.11	4370	1.35				
	19	91	69.47	4380	1.45				
	22	80	61.30	4320	1.65				
	24	73	55.87	4210	1.8				
	27	63	48.17	4040	2.1				
	29	59	44.90	3960	2.2				
	34	51	39.25	3810	2.5				
	36	48	36.79	3740	2.7				
	41	42	32.47	3610	3.1				
	46	38	28.78	3480	3.5				
	54	32	24.47	3310	4.1				
	47	37	28.37	3470	3.5	TR	27	YDA 63M4	118
	51	34	26.09	3380	3.8				TRF
	59	29	22.32	3220	4.5				
	68	25	19.35	3090	5.2				
	73	24	18.08	3020	5.5				
	84	20	15.63	2890	6.4				
	99	17	13.28*	2750	7.5				
	143	12	6.07	4940	3.6	TRX	67	YDA 63L6	108
	168	10	5.18	4690	7.4				TRXF
	192	8.9	4.53	4490	9.2				
	202	8.5	4.30'	4410	9.4				
	218	7.9	6.07	4310	5.4	TRX	67	YDA 63M4	108
	255	6.7	5.18	4090	11				TRXF
	292	5.9	4.53	3920	14				
	307	5.6	4.30*	3850	14				
	350	4.9	3.77	3690	18				
	413	4.2	3.20'	3500	24				
457	3.8	2.89	3380	28					
519	3.3	2.54	3240	36					
550	3.1	2.40*	3180	40					
646	2.7	2,04	3020	50					
158	11	5.50*	3880	3.6	TRX	57	YDA 63L6	106	
172	10	5.07	3780	3.6				TRXF	57
200	8.6	4.35	3600	7.9					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.18	230	7.5	3.79	3440	9.2	TRX	57	YDA 63M4	106
	240	7.2	5.50*	3400	5.4				TRXF
	261	6.6	5.07	3310	5.5				
	303	5.7	4.35	3150	12				
	348	4.9	3.79	3010	14				
	372	4.6	3.55*	2950	15				
	421	4.1	3.14	2830	16				
	453	3.8	2.91	2760	18				
	500	3.4	2.64*	2670	20				
	557	3.1	2.37	2580	22				
	547	2.7	2.04	2460	26				
	688	2.5	1.92*	2410	28				
	799	2.2	1.65	2290	31				
0.25	0.13	15200	9743	48200	0.85	TR	147 / TRF77	YDA 63L4	149
	0.15	12800	8443	63100	1.00				TRF
	0.18	11000	7307	66200	1.20				
	0.20	9740	6447	68100	1.35				
	0.23	8410	5568	69800	1.55				
	0.26	7600	4926	70700	1.70				
	0.30	6570	4325	71700	2.00				
	0.35	5790	3754	72400	2.30				
	0.39	5020	3302	72900	2.60				
	0.45	4380	2898	73300	3.00				
	0.22	8670	5834	51100	0.90	TR	137 / TRF77	YDA 63L4	149
	0.25	7970	5116	53500	1.00				TRF
	0.29	6740	4464	55800	1.20				
	0.33	5930	3928	57100	1.35				
	0.28	7430	4709	54600	1.10	TR	137 / TRF77	YDA 63L4	149
	0.32	5340	4018	56500	1.25				TRF
	0.37	5550	3514	57700	1.45				
	0.39	5270	3338	58100	1.50				
	0.44	4520	2929	58900	1.75				
	0.49	4190	2658	59300	1.90	TR	137 / TRF77	YDA 63L4	149
	0.54	3800	2412	59700	2.10				TRF
	0.63	3270	2073	60100	2.50				
	0.71	2810	1839	60500	2.80				
	0.93	2180	1397	60800	3.70				
	1.1	1890	1226	61000	4.20				
	0.43	4730	3039	25600	0.90	TR	107 / TRF77	YDA 63L4	149
	0.43	4790	3034	23600	0.90				TRF
	0.65	3100	1987	34600	1.40	TR	107 / TRF77	YDA 63L4	149
	0.71	2790	1827	35600	1.55				TRF
	0.81	2410	1599	36300	1.80				
	0.93	2140	1400	36600	2.00				
	1.1	1840	1226	36900	2.30				
	1.4	1440	939	37300	3.00				
	1.6	1240	822	37400	3.50				
	0.75	2840	1733	22000	1.05	TR	97 / TRF57	YDA 63L4	149
	0.80	2660	1623	23200	1.15				TRF
	0.71	2960	1823	21100	1.00	TR	97 / TRF57	YDA 63L4	149
	0.82	2570	1583	23700	1.15				TRF
	0.93	2230	1396	25400	1.35				
	1.1	1940	1228	26600	1.55				
	1.2	1750	1069	27300	1.70				
	1.4	1530	938	27600	1.95				
1.6	1300	824	27900	2.30					
1.8	1160	737	28100	2.60					
2.1	1000	632	28200	3.00					

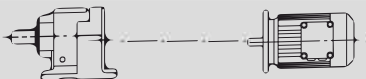
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s				Page
0.25	1.1	1850	1145	10700	0.85	TR	87 / TRF57	YDA 63L4	149
	1.2	1670	1037	16000	0.95	TRF	87 / TRF57	YDA 63L4	149
	1.4	1490	931	17400	1.05				
	1.6	1270	802	18600	1.20				
	1.1	1800	1143	14700	0.85	TR	87 / TRF57	YDA 63L4	149
	1.5	1420	885	17800	1.10	TRF	87 / TRF57	YDA 63L4	149
	1.7	1250	776	18700	1.25				
	1.9	1100	585	19400	1.40				
	2.2	930	599	20000	1.65				
	2.5	820	525	20000	1.90				
	2.9	715	456	20000	2.20				
	4.9	415	268	20000	3.70				
	2.3	920	571	8910	0.90	TR	77 / TRF37	YDA 63L4	149
						TRF	77 / TRF37	YDA 63L4	149
	2.3	930	560	8780	0.90	TR	77 / TRF37	YDA 63L4	149
	2.7	795	488	10100	1.05	TRF	77 / TRF37	YDA 63L4	149
	3.0	705	435	10900	1.15				
	3.5	610	373	11500	1.35				
	4.0	535	327	11900	1.55				
	4.5	475	289	12200	1.75				
	5.0	425	260	12400	1.95				
	5.8	355	224	12600	2.30				
	3.4	620	388	7290	0.95	TR	67 / TRF37	YDA 63L4	149
	3.8	565	344	7950	1.05	TRF	67 / TRF37	YDA 63L4	149
	4.4	465	294	8870	1.30				
	5.0	425	261	9180	1.40				
	5.5	380	234	9460	1.60				
	6.5	320	200	9780	1.85				
	7.4	280	176	9980	2.20				
	8.2	250	158	10100	2.40				
	3.4	645	384	6960	0.95	TR	67 / TRF37	YDA 63L4	149
	3.5	600	359	7550	1.00	TRF	67 / TRF37	YDA 63L4	149
	4.2	515	310	8430	1.15				
	4.9	435	264	9100	1.40				
	5.5	385	235	9420	1.55				
	6.5	325	201	9750	1.85				
	7.2	295	181	9910	2.00				
	4.1	520	319	6050	0.85	TR	57 / TRF37	YDA 63L4	149
	4.8	440	273	7160	1.05	TRF	57 / TRF37	YDA 63L4	149
	5.4	380	241	7380	1.20				
	6.0	340	215	7510	1.30				
	7.0	300	187	7630	1.50				
	7.9	260	164	7730	1.75				
	9.2	225	142	7800	2.00				
	4.0	545	324	4980	0.85	TR	57 / TRF37	YDA 63L4	149
	4.5	485	290	6950	0.95	TRF	57 / TRF37	YDA 63L4	149
	5.0	435	262	7160	1.05				
	5.3	405	246	7280	1.10				
	5.9	360	220	7450	1.25				
	5.7	375	228	2440	0.80	TR	47 / TRF37	YDA 63L4	149
	6.7	315	195	5320	0.95	TRF	47 / TRF37	YDA 63L4	149
	7.1	295	182	5440	1.00				
	8.5	245	154	5680	1.20				
	2.4	1020	289.74	28200	3.0	TR	97	YDA 80N8	139
	2.7	900	255.71	28300	3.3	TRF	97	YDA 80N8	140
	2.8	850	241.25	28400	3.5				
	3.1	760	216.28	28400	4.0				

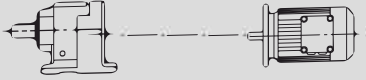
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.25	2.8	870	246.54	20000	1.8	TR	87	YDA 80N8	136
	3.1	760	216.54	20000	2.0				TRF
	3.3	720	205.71	20000	2.2				
	3.7	640	181.77	20000	2.4				
	4.1	585	166.59	11800	1.4	TR	77	YDA 80N8	133
	4.7	510	145.67	12000	1.6				TRF
	4.9	485	138.39	12100	1.7				
	5.6	425	121.42	12400	1.9				
	4.5	530	195.24*	11900	1.55	TR	77	YDA 71D6	133
	5.3	450	166.59	12300	1.8				TRF
	5.0	395	145.67	12500	2.1				
	6.7	360	195.24*	12600	2.3	TR	77	YDA 63L4	133
	7.8	305	166.59	12800	2.7				TRF
	B.9	270	145.67	12900	3.1				
	9.4	255	138.39	12900	3.2				
	11	225	121.42	13000	3.7				
	4.3	555	158.14	8060	1.1	TR	67	YDA 80N8	130
	4.9	485	137.67	8730	1.25				TRF
	5.3	455	128.97	8970	1.35				
	5.0	400	113.94	9340	1.5				
	4.4	540	199.81	8190	1.1	TR	67	YDA 71D6	130
	4.8	500	184.07	8590	1.2				TRF
	5.5	430	158.14	9140	1.4				
	5.4	375	137.67	9500	1.6				
	5.8	350	128.97	9530	1.7				
	7.7	310	113.94	9840	1.95				
	8.3	285	105.83	9940	2.10				
	6.5	365	199.81	9540	1.55	TR	67	YDA 63L4	130
	7.1	340	184.07	9700	1.8				TRF
	8.2	290	158.14	9930	2.1				
	9.4	255	137.67	10100	2.4				
	10	235	128.97	10100	2.5				
	11	210	113.94	10200	2.9				
	12	194	105.83	10300	3.1				
	14	176	95.91	10300	3.4				
	15	158	86.11	10400	3.8				
	4.7	505	186.89	6450	0.9	TR	57	YDA 71D6	127
	5.1	465	172.17	7030	0.95				TRF
	6.0	400	147.92	7300	1.10				
	6.8	350	128.77	7480	1.30				
	7.3	325	120.63	7550	1.35				
	8.3	290	106.58	7660	1.55				
	8.9	270	98.99	7710	1.7				
	7.0	345	186.89	7500	1.3	TR	57	YDA 63L4	127
	7.5	315	172.17	7590	1.4				TRF
	8.8	270	147.92	7700	1.65				
	10	235	128.77	7780	1.9				
	11	220	120.63	7810	2.0				
	12	196	106.58	7860	2.3				
	13	182	98.99	7880	2.5				
14	155	89.71	7910	2.7					
16	148	80.55	7930	3.0					
19	127	69.23	7960	3.5					
7.4	325	176.88	5280	0.90	TR	47	YDA 63L4	124	
8.0	300	162.94	5420	1.00				TRF	47
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11	225	121.87	5770	1.35					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page																																				
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	13	185	100.86	5900	1.60				TRF	47	YDA 63L4	125																																	
	14	172	93.68	5940	1.75							TR	37	YDA 63L4	121																														
	15	156	84.90	5980	1.9										TRF	37	YDA 63L4	122																											
	17	140	76.23	6020	2.1													TR	37	YDA 63L4	121																								
	19	126	68.54	6050	2.4																TRF	37	YDA 63L4	122																					
	20	118	64.21	6070	2.5																			TR	37	YDA 63L4	121																		
	23	104	56.73	6090	2.9																						TRF	37	YDA 63L4	122															
	25	97	52.69	6100	3.1																									TR	37	YDA 63L4	121												
	27	88	47.75	6080	3.4																												TRF	37	YDA 63L4	122									
	9.6	250	134.82	2630	0.8																															TR	37	YDA 63L4	121						
	11	225	123.66	4560	0.9																																		TRF	37	YDA 63L4	122			
	12	193	105.28	5030	1.05																																					TR	37	YDA 63L4	121
	14	167	90.77	5320	1.20																																								TRF
	15	155	84.61	5420	1.30	TR	37	YDA 63L4																																					
	18	136	73.96	5590	1.45				TRF	37	YDA 63L4																																		
	19	127	69.33	5650	1.55							TR	37	YDA 63L4																															
	21	112	61.18	5750	1.80										TRF	37	YDA 63L4																												
	23	102	55.76	5800	1.95													TR	37	YDA 63L4																									
	27	88	48.08	5870	2.3																TRF	37	YDA 63L4																						
	29	82	44.81	5760	2.4																			TR	37	YDA 63L4																			
	33	72	39.17	5540	2.8																						TRF	37	YDA 63L4																
	35	67	36.72	5430	3.0																									TR	37	YDA 63L4													
	40	60	32.40	5230	3.4																												TRF	37	YDA 63L4										
	15	156	84.78	4100	0.85																															TR	27	YDA 63L4							
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	23	103	55.87	4090	1.25	TR	27	YDA 63L4																																					
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	29	83	44.90	3870	1.6							TR	27	YDA 63L4																															
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	72	33	18.08	2990	3.9																																					TR	27	YDA 63L4	
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	110	22	11.86	2630	5.9				TRF	27	YDA 63L4																																		
	128	19	10.13	2510	6.6							TR	27	YDA 63L4																															
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	159	15	8.16	2330	7.7													TR	27	YDA 63L4																									
170	14	7.63*	2290	8.0	TRF																27	YDA 63L4	119																						
197	12	6.59	2180	8.8																			TR	27	YDA 63L4	118																			
232	10	5.60*	2080	9.6																						TRF	27	YDA 63L4	119																
250	9.2	5.00*	2000	10																									TR	27	YDA 63L4	118													
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325	7.3	4.00*	1870	12																															TR	27	YDA 63L4	118							
386	6.2	3.37	1770	13																																		TRF	27	YDA 63L4	119				
145	17	6.07	4890	2.6																																					TRX	67	YDA 71D6	108	
170	14	5.18	4650	5.4																																								TRXF	67
194	12	4.53	4450	6.7		TRX	67	YDA 71D6																																					
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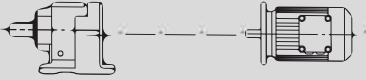
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	251	9.5	5.18	4100	7.9				TRXF 67	YDA 63L4	109
	287	8.3	4.53	3920	9.9						
	302	7.9	4.30*	3860	10						
	345	6.9	3.77	3700	13						
	406	5.9	3.20*	3500	17						
	450	5.3	2.89	3390	20						
	511	4.7	2.54	3250	25						
	542	4.4	2.40 ¹	3190	28						
	636	3.8	2.04	3020	35						
	160	15	5.50*	3840	2.6	TRX 57	YDA 71D6		106		
	174	14	5.07	3740	2.6				TRXF 57	YDA 71D6	107
	202	12	4.35	3560	5.8						
	232	10	3.79	3410	6.7						
	236	10	5.50*	3390	3.9	TRX 57	YDA 63L4		106		
	257	9.3	5.07	3300	3.9				TRXF 57	YDA 63L4	107
	299	8.0	4.35	3150	8.5						
	343	7.0	3.79	3010	9.9						
	366	6.5	3.55*	2950	11						
	414	5.8	3.14	2830	11						
	446	5.3	2.91	2760	13						
	492	4.8	2.64*	2680	14						
	548	4.4	2.37	2580	16						
	537	3.7	2.04	2460	19						
677	3.5	1.92*	2410	20							
787	3.0	1.65	2300	23							
0.37	0.19	15900	7307	37500	0.8	TR 147 / TRF77	YDA 71D4		149		
	0.21	14100	6447	60400	0.9				TRF 147 / TRF77	YDA 71D4	149
	0.25	12100	5568	64300	1.05						
	0.28	10900	4926	66400	1.20						
	0.32	9480	4325	68500	1.35						
	0.37	8310	3754	70000	1.55						
	0.42	7240	3302	71100	1.8						
	0.48	6320	2898	71900	2.1						
	0.31	9740	4464	39400	0.8	TR 137 / TRF77	YDA 71D4		149		
	0.35	8570	3928	51500	0.95				TRF 137 / TRF77	YDA 71D4	149
	0.34	9080	4018	49200	0.9	TR 137 / TRF77	YDA 71D4		149		
	0.39	7940	3514	53500	1.0				TRF 137 / TRF77	YDA 71D4	149
	0.41	7540	3338	54300	1.05						
	0.47	6620	2929	56000	1.20						
	0.56	5600	2484	57600	1.45						
	0.62	5030	2242	58400	1.60						
	0.52	6000	2658	57000	1.35	TR 137 / TRF77	YDA 71D4		149		
	0.57	5440	2412	57800	1.45				TRF 137 / TRF77	YDA 71D4	149
	0.67	4680	2073	58800	1.70						
	0.75	4060	1839	59400	1.95						
	0.99	3130	1397	60200	2.5						
	1.1	2720	1226	60500	2.9						
	1.3	2440	1090	60700	3.3						
	1.4	2130	951	60900	3.8						
	0.67	4660	2067	27300	0.9	TR 107 / TRF77	YDA 71D4		149		
	0.82	3790	1693	31900	1.15				TRF 107 / TRF77	YDA 71D4	149
	0.89	3420	1550	33500	1.25						
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	1.3	2330	1055	36400	1.85						

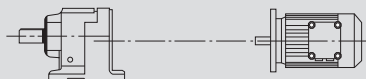
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	0.86	3490	1599	33200	1.25			
	0.99	3090	1400	34500	1.4			
	1.1	2670	1226	35900	1.6			
	1.5	2070	939	36700	2.1			
	1.7	1790	822	37000	2.4			
	1.1	2760	1207	22500	1.1	TR 97 / TRF57	YDA 71D4	149
	1.3	2470	1084	24300	1.2	TRF 97 / TRF57	YDA 71D4	149
	1	3180	1396	10800	0.95	TR 97 / TRF57	YDA 71D4	149
	1.1	2780	1228	22500	1.1	TRF 97 / TRF57	YDA 71D4	149
	1.3	2480	1069	24200	1.2			
	1.5	2160	938	25700	1.4			
	1.7	1860	824	25900	1.6			
	1.9	1670	737	27400	1.8			
	2.2	1430	632	27700	2.1			
	3.2	980	431	28200	3.1			
	3.6	860	379	28300	3.5			
	4.1	765	336	28400	3.9			
	1.7	1810	802	13800	0.85	TR 87 / TRF57	YDA 71D4	149
	1.8	1700	754	15800	0.90	TRF 87 / TRF57	YDA 71D4	149
	2.1	1450	649	17500	1.05			
	1.8	1780	776	15100	0.85	TR 87 / TRF57	YDA 71D4	149
	2.0	1570	685	15800	1.00	TRF 87 / TRF57	YDA 71D4	149
	2.3	1340	599	18300	1.15			
	2.5	1170	525	19100	1.3			
	3.0	1030	456	19700	1.5			
	5.2	595	268	20000	2.6			
	5.9	525	236	20000	2.9			
	2.6	1260	538	18700	1.25	TR 87 / TRF57	YDA 71D4	149
	2.9	1100	472	19400	1.40	TRF 87 / TRF57	YDA 71D4	149
	3.5	930	400	20000	1.65			
	3.8	830	361	20000	1.85			
	3.7	860	373	9520	0.95	TR 77 / TRF37	YDA 71D4	149
	4.2	755	327	10500	1.10	TRF 77 / TRF37	YDA 71D4	149
	4.8	670	289	11100	1.20			
	5.3	600	260	11500	1.35			
	6.2	510	224	12000	1.60			
	7.0	445	197	12300	1.85			
	8.2	390	169	12500	2.10			
	9.3	340	149	12700	2.40			
	4.7	565	294	4570	0.9	TR 67 / TRF37	YDA 71D4	149
	5.3	600	261	7550	1.0	TRF 67 / TRF37	YDA 71D4	149
	5.9	540	234	8220	1.1			
	6.9	460	200	8930	1.3			
2.7	1330	255.71	27900	2.3	TR 97	YDA 90S8	139	
2.8	1250	241.25	28000	2.4	TRF 97	YDA 90S8	140	
3.1	1120	216.28	28100	2.7				
3.6	970	186.30	28300	3.1				
3.1	1140	289.74	28100	2.6	TR 97	YDA 80K6	139	
3.5	1000	255.71	28200	3.0	TRF 97	YDA 80K6	140	
3.7	950	241.25	28300	3.2				
4.2	850	216.28	28400	3.5				
3.1	1130	216.54	19300	1.4	TR 87	YDA 90S8	136	
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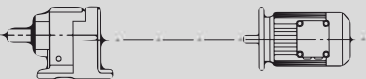
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	5.0	715	181.77	20000	2.2				
	5.8	510	155.34	20000	2.5				
	6.3	550	142.41	20000	2.8				
	4.7	755	145.67	10500	1.1	TR	77	YDA 90S8	133
	4.9	720	138.39	10800	1.15	TRF	77	YDA 90S8	134
	5.5	530	121.42	11400	1.30				
	5.4	555	166.59	11200	1.25	TR	77	YDA 80K6	133
	6.2	570	145.67	11700	1.45	TRF	77	YDA 80K6	134
	6.5	545	138.39	11900	1.50				
	7.1	500	195.24'	12100	1.65	TR	77	YDA 71D4	133
	8.3	425	166.59	12400	1.9	TRF	77	YDA 71D4	134
	9.5	375	145.67	12600	2.2				
	10	355	138.39	12600	2.3				
	11	310	121.42	12800	2.6				
	13	255	102.99	12900	3.1				
	15	240	92.97	12900	3.5				
	5.7	520	158.14	7300	0.95	TR	67	YDA 80K6	130
	6.5	540	137.67	8210	1.10	TRF	67	YDA 80K6	131
	7.0	505	128.97	8530	1.20				
	7.9	445	113.94	9010	1.35				
	6.9	510	199.81	8480	1.15	TR	67	YDA 71D4	130
	7.5	470	184.07	8820	1.25	TRF	67	YDA 71D4	131
	8.7	405	158.14	9310	1.5				
	10	355	137.67	9620	1.7				
	11	330	128.97	9740	1.8				
	12	290	113.94	9920	2.1				
	13	270	105.83	10000	2.2				
	14	245	95.91	10100	2.4				
	16	220	86.11	10200	2.7				
	19	190	74.17	10300	3.2				
	20	179	69.75	10300	3.4				
	23	157	61.26	10400	3.8				
	24	145	56.89	10400	4.1				
	7.0	505	128.77	6510	0.9	TR	57	YDA 80K6	127
	7.5	475	120.63	7000	0.95	TRF	57	YDA 80K6	128
	8.4	420	106.58	7240	1.1				
	9.1	390	98.99	7350	1.15				
	7.4	480	186.89	6980	0.95	TR	57	YDA 71D4	127
	8.0	440	172.17	7140	1.0	TRF	57	YDA 71D4	128
	9.3	380	147.92	7390	1.2				
	11	330	128.77	7550	1,35				
	11	310	120.63	7610	1.45				
13	275	106.58	7700	1.55					
14	255	98.99	7750	1.80					
15	230	89.71	7800	1.95					
17	205	80.55	7840	2.2					
20	177	69.23	7890	2.5					
21	166	64.85	7910	2.7					
24	147	57.29	7760	3.1					
26	135	53.22	7600	3.3					
29	124	48.23	7380	3.6					
10	350	139.99	3490	0.85	TR	47	YDA 71D4	124	
11	310	121.87	5350	0.95	TRF	47	YDA 71D4	125	
12	290	114.17	5460	1.05					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page						
0.37	14	260	100.86	5630	1.15	TR	47	YDA 71D4	124						
	15	240	93.68	5700	1.25				TRF	47	YDA 71D4	125			
	16	215	84.90	5790	1.40										
	18	195	76.23	5870	1.55										
	20	176	58.54	5930	1.7										
	21	154	64.21	5960	1.8										
	24	145	55.73	6010	2.1										
	26	135	52.69	5990	2.2										
	29	122	47.75	5820	2.5										
	32	110	42.87	5650	2.7										
	37	95	35.93	5410	3.2										
	40	89	34.73	5310	3.4										
	41	87	33.79	5270	2.8				TR	47	YDA 71D4	124			
	44	80	31.12	5150	2.8							TRF	47	YDA 71D4	125
	52	59	26.74	4920	4.4										
	59	50	23.28	4720	5.0										
	63	55	21.81	4620	5.4										
	15	230	90.77	4250	0.85							TR	37	YDA 71D4	121
	15	215	84.51	4720	0.9				TRF	37	YDA 71D4				122
	19	189	73.96	5070	1.05										
	20	178	69.33	5210	1.15										
	23	157	61.18	5410	1.3										
	25	143	55.76	5530	1.4										
	29	123	48.08	5590	1.6										
	31	115	44.81	5480	1.75										
	35	100	39.17	5290	2.0										
	38	94	36.72	5190	2.1										
	43	83	32.40	5010	2.4										
	48	74	28.73	4850	2.7										
	57	53	24.42	4620	3.2										
	49	73	28.32	4830	2.8	TR	37	YDA 71D4	121						
	53	57	26.03	4710	2.8				TRF	37	YDA 71D4	122			
	62	57	22.27	4500	3.5										
	71	49	19.31	4320	4.1										
	75	45	18.05	4230	4.3										
	B8	40	15.50	4050	5.0										
	104	34	13.25	3850	5.6										
	117	30	11.83	3720	5.0										
	23	157	61.30	3870	0.85				TR	27	YDA 71D4	118			
	25	143	55.87	3800	0.90							TRF	27	YDA 71D4	119
29	123	48.17	3680	1.05											
31	115	44.90	3620	1.15											
35	101	39.25	3510	1.30											
38	94	35.79	3460	1.40											
43	83	32.47	3350	1.55											
48	74	28.78	3250	1.75											
56	63	24.47	3110	2.10											
49	73	28.37	3240	1.80	TR	27	YDA 71D4	118							
53	67	25.09	3170	1.95				TRF	27	YDA 71D4	119				
62	57	22.32	3040	2.3											
71	50	19.35	2920	2.6											
76	46	18.08	2860	2.8											
88	40	15.63	2750	3.3											
104	34	13.28*	2620	3.8											
174	20	5.18	4570	3.7				TRX	67	YDA 80K6	108				
199	18	4.53	4380	4.6	TRXF	67	YDA 80K6				109				
209	17	4.30*	4310	4.7											
239	15	3.77	4130	5.9											

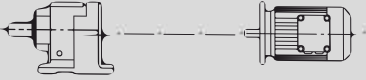
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s		Page	
0.37	227	16	6.07	4200	2.8	TRX 67	YDA 71D4	108
	257	13.0	5.18	3990	5.6	TRXF 67	YDA 71D4	109
	305	12.0	4.53	3820	7.1			
	321	11.0	4.30*	3760	7.3			
	366	9.7	3.77	3610	9.0			
	431	8.2	3.20*	3420	12			
	478	7.4	2.89	3310	14			
	543	6.5	2.54	3170	18			
	575	6.1	2.40*	3110	20			
	675	5.2	2.04	2950	26			
	207	17.0	4.35	3500	4.0	TRX 57	YDA 80K6	106
	238	15.0	3.79	3350	4.6	TRXF 57	YDA 80K6	107
	254	14.0	3.55*	3280	5.0			
	251	14.0	5.50*	3300	2.8	TRX 57	YDA 71D4	106
	272	13.0	5.07	3210	2.8	TRXF 57	YDA 71D4	107
	317	11	4.35	3060	6.1			
	364	9.7	3.79	2930	7.1			
	389	9.1	3.55*	2870	7.6			
	440	8	3.14	2760	8.1			
	474	7.5	2.91	2690	8.9			
	523	6.8	2.64*	2610	10			
	582	6.1	2.37	2520	11			
	676	5.2	2.04	2400	13			
	719	4.9	1.92*	2350	14			
	835	4.2	1.55	2240	16			
	0.55	0.22	19800	6077	120000	0.90	TR 167 / TRF97	YDA 80K4
0.25		17600	5407	120000	1.00	TRF 167 / TRF97	YDA 80K4	149
0.29		15000	4650	120000	1.20			
0.33		13100	4129	120000	1.35			
0.28		16900	4925	22000	0.75	TR 147 / TRF77	YDA 80K4	149
0.31		14700	4325	53900	0.90	TRF 147 / TRF77	YDA 80K4	149
0.36		12900	3754	62900	1.00			
0.41		11200	3302	65900	1.15			
0.47		9830	2898	68000	1.30			
0.53		8890	2555	69300	1.45	TR 147 / TRF77	YDA 80K4	149
0.62		7700	2211	70600	1.7	TRF 147 / TRF77	YDA 80K4	149
0.70		5790	1951	71500	1.9			
0.80		5810	1705	72400	2.2			
0.89		5210	1535	72800	2.5			
1.00		4510	1329	73300	2.9			
1.20		3920	1165	73600	3.3			
0.55		8650	2484	51200	0.9	TR 137 / TRF77	YDA 80K4	149
						TRF 137 / TRF77	YDA 80K4	149
0.51		9250	2658	48400	0.85	TR 137 / TRF77	YDA 80K4	149
0.55		8400	2412	52300	0.95	TRF 137 / TRF77	YDA 80K4	149
0.66		7220	2073	55000	1.10			
0.74		6320	1839	56500	1.25			
0.85		5420	1598	57900	1.50			
0.97		4840	1397	58600	1.65			
1.1		4220	1225	59300	1.9			
1.2		3780	1090	59700	2.1			
1.4	3300	951	60100	2.4				
1.5	2820	831	60500	2.8				
1	4830	1407	21900	0.9	TR 107 / TRF77	YDA 80K4	149	
1.1	4150	1209	30200	1.05	TRF 107 / TRF77	YDA 80K4	149	
1.3	3620	1055	32700	1.20				
1.5	3170	919	34400	1.35				


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.55	1.7	2830	815	35500	1.50	TR	107 / TRF77	YDA 80K4	149
	1.9	2470	717	36200	1.75	TRF	107 / TRF77	YDA 80K4	149
	2.2	2160.0	626	36600	2.0				
	1	4810.0	1400	22800	0.9	TR	107 / TRF77	YDA 80K4	149
	1.1	4180.0	1226	30100	1.05	TRF	107 / TRF77	YDA 80K4	149
	1.2	3740.0	1104	32200	1.15				
	1.4	3220.0	939	34200	1.35				
	1.7	2800.0	822	35600	1.55				
	1.7	2870.0	824	21800	1.05	TR	97 / TRF57	YDA 80K4	149
	1.8	2570.0	737	23700	1.15	TRF	97 / TRF57	YDA 80K4	149
	2.1	2200.0	632	25500	1.35				
	2.4	1920.0	560	26700	1.55				
	2.8	1670.0	484	27400	1.8				
	3.1	1510.0	431	27600	2.0				
	3.6	1320.0	379	27900	2.3				
	4.0	1180.0	335	28000	2.6				
	4.6	1030	296	28200	2.9				
	5.5	860	249	28300	3.5				
	2.6	1820	525	13600	0.85	TR	87 / TRF57	YDA 80K4	149
	3.0	1580	456	16700	1.00	TRF	87 / TRF57	YDA 80K4	149
	3.4	1370	398	18100	1.15				
	3.9	1210	352	18900	1.3				
	4.5	1040	305	19700	1.5				
	2.9	1690	472	15900	0.9	TR	87 / TRF57	YDA 80K4	149
	3.4	1420	400	17800	1.1	TRF	87 / TRF57	YDA 80K4	149
	3.8	1280	361	18600	1.2				
	4.9	990	276	4510	0.85	TR	77 / TRF37	YDA 80K4	149
	5.8	840	236	9730	1.00	TRF	77 / TRF37	YDA 80K4	149
	6.2	785	221	10200	1.05				
	7.3	660	186	11200	1.25				
	2.7	1980	255.71	26500	1.5	TR	97	YDA 90L8	139
	2.8	1860	241.25	26900	1.6	TRF	97	YDA 90L8	140
	3.1	1670	216.28	27400	1.8				
	3.1	1690	289.74	27400	1.75	TR	97	YDA 80N6	139
	3.5	1490	255.71	27700	2.0	TRF	97	YDA 80N6	140
	3.7	1410	241.25	27800	2.1				
	4.2	1260	216.28	28000	2.4				
	4.7	1120	289.74	28100	2.7	TR	97	YDA 80K4	139
	5.3	990	255.71	28200	3.0	TRF	97	YDA 80K4	140
	5.6	930	241.25	28300	3.2				
	6.3	840	216.28	28400	3.6				
	3.6	1440	246.54	17700	1.1	TR	87	YDA 80N6	136
4.2	1260	216.54	18700	1.25	TRF	87	YDA 80N6	137	
4.4	1200	205.71	19000	1.3					
5.0	1060	131.77	19600	1.45					
5.8	910	155.34	20000	1.7					
5.5	950	246.54	20000	1.65	TR	87	YDA 80K4	136	
6.3	840	215.54	20000	1.85	TRF	87	YDA 80K4	137	
6.6	795	205.71	20000	1.95					
7.5	700	181.77	20000	2.2					
8.8	600	155.34	20000	2.6					
9.6	550	142.41	20000	2.8					
11	485	124.97	20000	3.2					
11	455	118.43	20000	3.4					
13	400	103.65	20000	3.9					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.55	8.2	645	166.59	11300	1.25	TR	77	YDA 80K4	133
	9.3	565	145.67	11800	1.45				TRF
	9.8	535	138.39	11900	1.55				
	11	470	121.42	12200	1.75				
	13	400	102.99	12500	2.1				
	15	360	92.97	12600	2.3				
	17	315	81.80	12800	2.6				
	18	300	77.24	12800	2.8				
	21	255	65.77	12900	3.2				
	8.5	610	158.14	7430	1.0	TR	67	YDA 80K4	130
	9.9	530	137.67	8290	1.15				TRF
	11	500	128.97	8600	1.20				
	12	440	113.94	9060	1.35				
	13	410	105.83	9280	1.45				
	14	370	95.91	9520	1.5				
	16	335	86.11	9730	1.8				
	18	285	74.17	9940	2.1				
	20	270	69.75	10000	2.2				
	22	235	61.26	10100	2.5				
	24	220	56.89	10200	2.7				
	11	465	120.63	7030	0.95	TR	57	YDA 80K4	127
	13	410	106.58	7260	1.1				TRF
	14	380	98.99	7370	1.2				
	15	345	89.71	7490	1.3				
	17	310	80.55	7600	1.45				
	20	265	69.23	7710	1.7				
	21	250	64.85	7750	1.8				
	24	220	57.29	7530	2.0				
	26	205	53.22	7390	2.2				
	28	185	48.23	7190	2.4				
	31	167	43.30	6980	2.7				
	36	144	37.30*	6700	3.1				
	39	136	35.07	6580	3.3				
	52	102	26.31	6060	4.4	TR	57	YDA 80K4	127
	54	97	24.99*	5970	4.7				TRF
	62	85	21.93	5740	5.3				
	73	72	18.60*	5460	6.3				
	15	360	93.68	3280	0.85	TR	47	YDA 80K4	124
	16	330	84.90	5230	0.9				TRF
	18	295	76.23	5450	1.0				
	20	265	68.54	5600	1.15				
	21	250	64.21	5670	1.20				
24	220	56.73	5790	1.35					
26	205	52.69	5770	1.45					
28	184	47.75	5630	1.55					
32	166	42.87	5470	1.8					
37	143	36.93	5260	2.1					
39	134	34.73	5180	2.2					
46	115	29.88	4970	2.5					
51	103	26.74	4820	2.9					
58	90	23.28	4630	3.3					
62	84	21.81	4550	3.5					
22	235	61.18	3910	0.85	TR	37	YDA 80K4	121	
24	215	55.76	4740	0.95				TRF	37
28	186	48.08	5120	1.10					
30	173	44.81	5230	1.15					
35	151	39.17	5070	1.3					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.55	37	142	36.72	4990	1.4	TR	37	YDA 80K4	121
	42	125	32.40	4840	1.6				TRF
	47	111	28.73	4700	1.8				
	56	94	24.42	4500	2.1				
	51	86	22.27	4390	2.3				
	70	75	19.31	4220	2.7				
	75	70	18.05	4140	2.9				
	87	60	15.60	3970	3.3				
	103	51	13.25	3790	3.7				
	115	46	11.83	3670	4.0				
	35	152	39.25	3280	0.85	TR	27	YDA 80K4	118
	37	142	36.79	3240	0.90				TRF
	42	125	32.47	3160	1.05				
	47	111	28.78	3080	1.15				
	56	95	24.47	2970	1.40				
	61	B6	22.32	2910	1.50	TR	27	YDA 80K4	118
	70	75	19.35	2810	1.75				TRF
	75	70	18.08	2760	1.85				
	87	B0	15.63	2660	2.2				
	102	51	13.28*	2550	2.5				
	115	46	11.86	2470	2.8				
	134	39	10.13	2370	3.1				
	145	36	9.41	2290	3.4				
	167	32	8.15	2200	3.7				
	178	29	7.63*	2160	3.8				
	206	26	6.59	2070	4.2				
	243	22	5.60*	1980	4.6				
	272	19	5.00*	1910	4.9				
	318	17	4.27	1830	5.3				
	340	15	4.00*	1790	5.5				
	404	13	3.37	1700	6.1				
	174	30	5.18	4510	2.5	TRX	67	YDA 80N6	108
	199	26	4.53	4320	3.1				TRXF
	209	25	4.30*	4260	3.2				
	239	22	3.77	4090	4.0				
	253	20	5.18	3970	3.8	TRX	67	YDA 80K4	108
	300	18	4.53	3800	4.7				TRXF
	316	17	4.30*	3740	4.8				
	360	15	3.77	3590	6.0				
	425	12	3.20*	3410	B.1				
	471	11	2.89	3300	9.5				
	535	9.8	2.54	3170	12				
	567	9.3	2.40*	3110	13				
	666	7.9	2.04	2950	17				
	732	7.2	1.85	2860	18				
	845	6.2	1.61	2730	18				
	207	25	4.35	3440	2.7	TRX	57	YDA 80N6	106
	238	22	3.79	3300	3.1				TRXF
	254	21	3.55*	3230	3.3				
	287	18	3.14	3110	3.6				
309	17	2.91	3040	3.9					
312	17	4.35	3040	4.1	TRX	57	YDA 80K4	106	
359	15	3.79	2910	4.7				TRXF	57
383	14	3.55*	2850	5.0					
434	12	3.14	2740	5.4					
467	11	2.91	2680	6.0					
515	10	2.64*	2600	6.8					

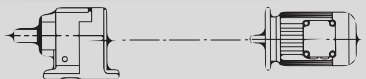
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s		Page	
0.55	574	9.2	2.37	2510	7.5	TRX 57	YDA 80K4	106
	666	7.9	2.04	2390	8.7	TRXF 57	YDA 80K4	107
	708	7.4	1.92*	2350	9.3			
	823	6.4	1.65	2230	11			
	921	5.7	1.48	2150	12			
	1045	5.0	1.30	2070	13			
0.75	0.30	20700	4650	120000	0.9	TR 167 / TRF97	YDA 80N4	149
	0.33	18200	4129	120000	1.0	TRF 167 / TRF97	YDA 80N4	149
	0.52	12100	2657	120000	1.5	TR 167 / TRF97	YDA 80N4	149
	0.59	10500	2333	120000	1.7	TRF 167 / TRF97	YDA 80N4	149
	0.66	9300	2085	120000	2.0			
	0.96	6550	1438	120000	2.8			
	0.42	15300	3302	46300	0.9	TR 147 / TRF77	YDA 80N4	149
	0.48	13400	2898	61800	1.0	TRF 147 / TRF77	YDA 80N4	149
	0.54	12100	2555	64400	1.1	TR 147 / TRF77	YDA 80N4	149
	0.62	10500	2211	67100	1.3	TRF 147 / TRF77	YDA 80N4	149
	0.71	9230	1951	68800	1.4			
	0.81	7940	1705	70400	1.65			
	0.90	7130	1536	71200	1.8			
	1.00	6170	1329	72100	2.1			
	1.20	5380	1166	72700	2.4			
	0.74	8730	1863	50900	0.9	TR 137 / TRF77	YDA 80N4	149
	0.87	7390	1586	54600	1.1	TRF 137 / TRF77	YDA 80N4	149
	0.99	6580	1391	56100	1.2			
	1.10	5920	1256	57100	1.35			
	0.67	9810	2073	37900	0.80	TR 137 / TRF77	YDA 80N4	149
	0.75	8610	1839	51400	0.95	TRF 137 / TRF77	YDA 80N4	149
	0.86	7410	1598	54600	1.1			
	0.99	6590	1397	56100	1.2			
	1.1	5750	1226	57400	1.4			
	1.3	5140	1090	58200	1.55			
	1.4	4490	951	59000	1.8			
	1.7	3860	831	59600	2.1			
	1.9	3360	730	60100	2.4			
	1.3	4940	1055	16400	0.85	TR 107 / TRF77	YDA 80N4	149
	1.5	4310	919	29400	1.0	TRF 107 / TRF77	YDA 80N4	149
	1.7	3840	815	31700	1.1			
	1.5	4400	939	28900	1.0	TR 107 / TRF77	YDA 80N4	149
	1.7	3830	822	31800	1.1	TRF 107 / TRF77	YDA 80N4	149
	3.7	1710	369	37100	2.5			
	4.3	1490	323	37200	2.9			
	2.2	2990	632	20100	1.0	TR 97 / TRF57	YDA 80N4	149
	2.5	2620	560	23400	1.15	TRF 97 / TRF57	YDA 80N4	149
	2.9	2270	484	25200	1.30			
	3.2	2050	431	26200	1.45			
	3.6	1800	379	27100	1.65			
	4.1	1600	336	27500	1.9			
	4.7	1400	296	27800	2.1			
5.5	1170	249	28100	2.5				
3.5	1870	398	9720	0.85	TR 87 / TRF57	YDA 80N4	149	
3.9	1650	352	16200	0.95	TRF 87 / TRF57	YDA 80N4	149	
4.5	1430	305	17700	1.10				
5.2	1260	268	18700	1.25				
5.9	1110	236	19400	1.40				
3.8	1740	361	15500	0.90	TR 87 / TRF57	YDA 80N4	149	
4.6	1440	300	17700	1.10	TRF 87 / TRF57	YDA 80N4	149	
5.4	1220	256	18900	1.25				



P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.75	2.8	2610	251.15	36000	1.65	TR	107	YDA 100M8	141
	3.0	2390	229.95	36300	1.80	TRF	107	YDA 100M8	142
	3.4	2110	203.16	36700	2.00				
	3.2	2240	216.28	25300	1.35	TR	97	YDA 100M8	139
	3.7	1930	186.30	26600	1.55	TRF	97	YDA 100M8	140
	4.1	1760	170.02	27200	1.70				
	3.5	2030	255.71	26200	1.45	TR	97	YDA 90S6	139
	3.7	1920	241.25	26700	1.55	TRF	97	YDA 90S6	140
	4.2	1720	216.28	27300	1.75				
	4.8	1500	289.74	27600	2.0	TR	97	YDA 80N4	139
	5.4	1330	255.71	27900	2.3	TRF	97	YDA 80N4	140
	5.7	1250	241.25	28000	2.4				
	6.4	1120	216.28	28100	2.7				
	7.4	970	186.30	28300	3.1				
	8.1	880	170.02	28300	3.4				
	4.2	1720	216.54	15600	0.90	TR	87	YDA 90S6	136
	4.4	1640	205.71	16300	0.95	TRF	87	YDA 90S6	137
	5.0	1450	181.77	17600	1.05				
	5.8	1240	155.34	18800	1.25	TR	87	YDA 90S6	136
	5.3	1130	142.41	19300	1.35	TRF	87	YDA 90S6	137
	5.6	1280	246.54	18600	1.2	TR	87	YDA 80N4	136
	6.4	1120	216.54	19300	1.4	TRF	87	YDA 80N4	137
	6.7	1070	205.71	19600	1.45				
	7.6	940	181.77	20000	1.65				
	8.9	810	155.34	20000	1.9				
	9.7	740	142.41	20000	2.1				
	11	650	124.97	20000	2.4				
	12	515	118.43*	20000	2.5				
	13	540	103.65	20000	2.9				
	15	485	93.38	20000	3.2				
	8.3	860	165.59	9490	0.95	TR	77	YDA 80N4	133
	9.5	755	145.67	10500	1.10	TRF	77	YDA 80N4	134
	10	720	138.39	10800	1.15				
	11	530	121.42	11400	1.30	TR	77	YDA 80N4	133
	13	535	102.99	11900	1.55	TRF	77	YDA 80N4	134
	15	485	92.97	12200	1.70				
	17	425	81.80	12400	1.95				
	18	400	77.24	12500	2.1				
	21	340	65.77	12700	2.4				
	24	300	57.68	12800	2.7				
27	270	52.07	12900	3.0					
30	240	45.81	12900	3.5					
32	225	43.26	13000	3.7					
11	670	128.97	4040	0.9	TR	67	YDA 80N4	130	
12	590	113.94	7660	1.0	TRF	67	YDA 80N4	131	
13	550	105.83	8120	1.1					
14	500	95.91	BB00	1.2					
16	445	86.11	9010	1.35					
19	385	74.17	9430	1.55					
20	360	69.75	9570	1.65					
23	320	61.26	9800	1.9					
24	295	56.89	9910	2.0					
27	270	51.56	10000	2.2					
30	240	46.29	10100	2.5					

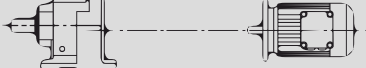
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
0.75	13	555	106.58	4610	0.8	TR	57	YDA 80N4	127
	14	515	98.99	6200	0.9				TRF
	15	465	89.71	7040	0.95				
	17	420	80.55	7240	1.10				
	20	360	69.23	7450	1.25				
	21	335	54.85	7430	1.35				
	24	295	57.29	7220	1.50				
	26	275	53.22	7090	1.55	TR	57	YDA 80N4	127
	29	250	48.23	6930	1.8				TRF
	32	225	43.30	6740	2.0				
	37	194	37.30*	5490	2.3				
	39	182	35.07	6380	2.5				
	46	157	30.18	6130	2.9				
	51	140	26.97	5940	3.2				
	52	137	26.31	5900	3.3	TR	57	YDA 80N4	127
	55	130	24.99*	5820	3.5				TRF
	63	114	21.93	5610	4.0				
	74	97	18.60*	5350	4.7				
	20	355	68.54	3660	0.85	TR	47	YDA 80N4	124
	21	335	64.21	4950	0.9				TRF
	24	295	56.73	5450	1.0				
	26	275	52.69	5480	1.1	TR	47	YDA 80N4	124
	29	250	47.75	5370	1.2				TRF
	32	225	42.87	5240	1.35				
	37	192	36.93	5060	1.55				
	40	180	34.73	4980	1.55				
	46	155	29.88	4800	1.95				
	52	139	26.70	4660	2.2				
	58	122	23.59	4510	2.5				
	52	139	26.74	4660	2.2	TR	47	YDA 80N4	124
	59	121	23.28	4490	2.5				TRF
	63	113	21.81	4420	2.7				
	72	100	19.27	4270	3.0				
	77	93	17.89	4180	3.1				
	85	84	16.22	4070	3.3				
	29	250	48.08	2330	0.80	TR	37	YDA 80N4	121
	31	235	44.81	4230	0.85				TRF
	35	205	39.17	4720	1.00				
	38	191	36.72	4740	1.05	TR	37	YDA 80N4	121
	43	168	32.40	4610	1.20				TRF
	48	149	28.73	4490	1.35				
	57	127	24.42	4320	1.60				
	62	116	22.27	4230	1.75	TR	37	YDA 80N4	121
	71	100	19.31	4080	2.00				TRF
	76	94	18.05	4010	2.10				
	88	81	15.60	3850	2.50				
104	69	13.25	3690	2.80					
117	61	11.83	3570	3.00					
137	53	10.11	3420	3.20					
146	49	9.47	3360	3.40					
48	149	28.78	2880	0.85	TR	27	YDA 80N4	118	
56	127	24.47	2800	1.00				TRF	27
62	116	22.32	2750	1.10					
71	100	19.35	2670	1.30					
76	94	18.08	2630	1.40					
88	81	15.63	2550	1.60					
104	69	13.28*	2450	1.90					

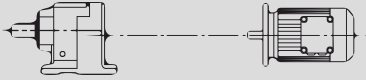
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s				Page
0.75	116	62	11.86	2380	2.10	TR	27	YDA 80N4	118
	136	53	1013	2290	2.30				TRF
	147	49	9.41	2210	2.50				
	159	42	8.16	2130	2.70				
	181	40	7.63*	2090	2.80				
	209	34	6.59	2010	3.10				
	246	29	5.60*	1930	3.40				
	276	25	5.00*	1870	3.70				
	199	35	4.53	4260	2.3	TRX	67	YDA 90S6	108
	209	34	4.30*	4200	2.3				TRXF
	239	30	3.77	4040	2.9				
	281	25	3.20*	3840	3.9				
	267	27	518	3900	2.80	TRX	67	YDA 80N4	108
	305	24	4.53	3750	3.50				TRXF
	321	22	4.30*	3690	3.50				
	355	20	3.77	3540	4.40				
	431	17	3.20*	3360	6.00				
	478	15	2.89	3260	7.10				
	543	13	2.54	3130	8.90				
	575	13	2.40*	3070	9.80				
	675	11	2.04	2920	13				
	743	9.6	1.86	2830	13				
	858	8.3	1.61	2700	14				
	238	30	3.79	3240	2.3	TRX	57	YDA 90S6	106
	254	28	3.55*	3180	2.4				TRXF
	287	25	3.14	3060	2.6				
	309	23	2.91	3000	2.9				
	341	21	2.54*	2910	3.3				
	317	23	4.35	2980	3.0	TRX	57	YDA 80N4	106
	364	20	3.79	2860	3.5				TRXF
	389	18	3.55*	2800	3.8				
	440	15	3.14	2700	4.0				
474	15	2.91	2530	4.4					
523	14	2.64*	2560	5.0					
582	12	2.37	2470	5.6					
675	11	2.04	2350	6.5					
719	10	1.92*	2310	6.9					
835	8.6	1.55	2210	8.0					
935	7.7	1.48	2130	8.8					
1060	6.8	1.30	2050	9.3					
1.1	0.53	17900	2657	120000	1.0	TR	167 / TRF97	YDA 90S4	149
	0.60	15500	2333	120000	1.15				TRF
	0.67	13800	2085	120000	1.30				
	0.75	12300	1877	120000	1.45				
	0.84	11000	1670	120000	1.65				
	0.97	9680	1438	120000	1.85				
	1.1	8620	1279	120000	2.10				
	1.2	7510	1123	120000	2.40				
	0.63	15300	2211	46800	0.85	TR	147 / TRF77	YDA 90S4	149
	0.72	13500	1951	61700	0.95				TRF
	0.82	11700	1705	65200	1.10				
	0.91	10500	1536	67100	1.25				
	1.1	9050	1329	69000	1.45				
	1.2	7920	1165	70400	1.65				
	1.4	6950	1029	71400	1.85				
	1.5	6030	889	72200	2.20				
	1.8	5300	784	72700	2.50				
	2.0	4580	695	73200	2.80				


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.1	1.0	9610	1391	41900	0.85	TR	137 / TRF77	YDA 90S4	149
	1.1	8660	1256	51200	0.90	TRF	137 / TRF77	YDA 90S4	149
	1.3	7590	1105	54200	1.05				
	1.3	7160	1043	55100	1.10				
	1.6	6070	888	56900	1.30				
	1.0	9630	1397	41500	0.85	TR	137 / TRF77	YDA 90S4	149
	1.1	8420	1226	52200	0.95	TRF	137 / TRF77	YDA 90S4	149
	1.3	7510	1090	54400	1.05				
	1.5	6560	951	55100	1.2				
	1.7	5670	831	57500	1.4				
	1.9	4950	730	58500	1.5				
	2.2	4230	629	59300	1.9				
	2.5	3830	560	59700	2.1				
	2.9	3300	490	50100	2.4				
	1.9	4930	717	17300	0.85	TR	107 / TRF77	YDA 90S4	149
	2.3	4150	614	30200	1.05	TRF	107 / TRF77	YDA 90S4	149
	2.6	3670	544	32500	1.15				
	2.8	3310	492	33900	1.30				
	3.4	2810	417	35500	1.55				
	3.8	2510	369	36200	1.70				
	4.3	2200	323	36600	1.95				
	4.9	1930	285	35800	2.20				
	5.5	1700	253	37100	2.50				
	3.2	2990	431	20300	1.00	TR	97 / TRF57	YDA 90S4	149
	3.7	2620	379	23400	1.15	TRF	97 / TRF57	YDA 90S4	149
	4.2	2330	336	24900	1.30				
	4.7	2050	296	25200	1.45				
	5.6	1710	249	27300	1.75				
	6.0	1590	234	27500	1.90				
	6.7	1430	209	27700	2.10				
	5.2	1840	268	11700	0.85	TR	87 / TRF57	YDA 90S4	149
	5.9	1630	236	15400	0.95	TRF	87 / TRF57	YDA 90S4	149
	6.7	1430	209	17700	1.10				
	5.5	1780	256	15100	0.85	TR	87 / TRF57	YDA 90S4	149
	6.0	1610	232	16500	0.95	TRF	87 / TRF57	YDA 90S4	149
	7.2	1370	195	18100	1.15				
	2.7	3940	251.15	31300	1.10	TR	107	YDA 100L8	141
	2.9	3610	229.95	32700	1.20	TRF	107	YDA 100L8	142
	3.3	3190	203.16	34300	1.35				
	3.9	2700	172.34	35800	1.60				
	3.6	2920	255.71	21500	1.05	TR	97	YDA 90L8	139
	3.8	2750	241.25	22500	1.10	TRF	97	YDA 90L8	140
	4.2	2470	216.28	24200	1.20				
	4.9	2130	186.30	25900	1.40				
	5.5	1920	255.71	25700	1.55	TR	97	YDA 90S4	139
	5.8	1810	241.25	27100	1.55	TRF	97	YDA 90S4	140
6.5	1620	216.28	27500	1.85					
7.5	1400	186.30	27800	2.20					
8.2	1280	170.02	27900	2.40					
9.3	1130	150.78	28100	2.70					
11	950	126.75	28300	3.20					
12	870	116.48	28300	3.40					
6.5	1620	216.54	16400	0.95	TR	87	YDA 90S4	136	
6.8	1540	205.71	17000	1.00	TRF	87	YDA 90S4	137	
7.7	1350	181.77	18100	1.15					
9.0	1170	155.34	19100	1.35					
9.8	1070	142.41	19600	1.45					

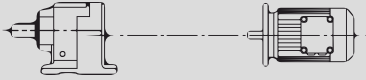
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.1	11	940	124.97	20000	1.65	TR	87	YDA 90S4	136
	12	890	118.43*	20000	1.75	TRF	87	YDA 90S4	137
	14	780	103.65	20000	2.00				
	15	700	93.38	20000	2.20				
	17	615	81.92	20000	2.50				
	19	545	72.57	20000	2.90				
	22	480	63.68*	20000	3.20				
	23	455	60.35*	20000	3.40				
	27	395	52.82	20000	3.90				
	12	910	121.42	8990	0.90	TR	77	YDA 90S4	133
14	775	102.99	10300	1.05	TRF	77	YDA 90S4	134	
15	700	92.97	10900	1.20					
17	615	81.80	11500	1.35	TR	77	YDA 90S4	133	
18	580	77.24	11700	1.40	TRF	77	YDA 90S4	134	
21	495	65.77	12100	1.55					
24	435	57.68	12400	1.90					
27	390	52.07	12500	2.10					
31	345	45.81	12700	2.40					
32	325	43.26	12700	2.50					
38	275	36.83	12900	3.00					
42	250	33.47	12900	3.30					
16	645	86.11	6820	0.95	TR	67	YDA 90S4	130	
19	555	74.17	8040	1.10	TRF	67	YDA 90S4	131	
20	525	69.75	8370	1.15					
23	460	61.26	8920	1.30					
25	425	56.89	9160	1.40					
27	385	51.56	9420	1.55					
30	345	46.29	9550	1.75					
35	300	39.88*	9890	1.95					
37	280	37.50	9970	2.00					
43	240	32.27	10100	2.20					
49	215	28.83	10200	2.40					
50	210	26.13	10200	2.50	TR	67	YDA 90S4	130	
52	200	26.72	10100	2.70	TRF	67	YDA 90S4	131	
60	176	23.44	9730	3.20					
70	149	19.89	9270	4.00					
20	520	69.23	5990	0.85	TR	57	YDA 90S4	127	
22	485	64.85	6850	0.90	TRF	57	YDA 90S4	128	
24	430	57.29	6700	1.05					
25	400	53.22	6610	1.15	TR	57	YDA 90S4	127	
29	360	48.23	6490	1.25	TRF	57	YDA 90S4	128	
32	325	43.30	6350	1.40					
38	280	37.30*	6140	1.60					
40	265	35.07	6060	1.70					
46	225	30.16	5850	2.00					
52	200	26.97	5690	2.20					
53	197	26.31	5650	2.30	TR	57	YDA 90S4	127	
56	188	24.99*	5580	2.40	TRF	57	YDA 90S4	128	
64	165	21.93	5400	2.70					
75	140	18.60*	5170	3.20					
83	126	16.79	5030	3.60					
29	360	47.75	3500	0.85	TR	47	YDA 90S4	124	
33	320	42.87	4850	0.95	TRF	47	YDA 90S4	125	
38	275	36.93	4720	1.10					
40	250	34.73	4560	1.15					
47	225	29.88	4520	1.35					
52	200	26.70	4410	1.50					
59	177	23.59	4290	1.70					

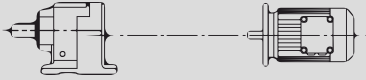
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.1	60	175	23.28	4270	1.70		TR 47	YDA 90S4	124
	64	164	21.81	4210	1.85		TRF 47	YDA 90S4	125
	73	145	19.27	4080	2.00				
	78	134	17.89	4010	2.20				
	86	122	15.22	3910	2.30				
	96	109	14.55	3800	2.40				
	112	94	12.54	3650	2.70				
	119	89	11.79	3590	2.80				
	138	76	10.15	3450	3.00				
	154	68	9.07	3340	3.20				
	43	245	32.40	2900	0.80	TR 37	YDA 90S4	121	
	49	215	28.73	3300	0.95	TRF 37	YDA 90S4	122	
	57	183	24.42	3720	1.10				
	73	145	19.31	3840	1.40				
	78	135	18.05	3790	1.50				
	90	117	15.60	3660	1.70				
	105	99	13.25	3520	1.90	TR 37	YDA 90S4	121	
	118	89	11.83	3430	2.10	TRF 37	YDA 90S4	122	
	139	76	10.11	3290	2.20				
	148	71	9.47	3230	2.40				
	176	50	7.97	3090	2.60				
	210	50	6.57	2920	2.90				
	247	43	5.57	2790	3.30				
	277	36	5.05	2700	3.60				
	72	145	19.35	2430	0.90	TR 27	YDA 90S4	118	
	77	136	18.08	2410	0.95	TRF 27	YDA 90S4	119	
	90	117	15.53	2360	1.10				
	105	100	13.28*	2290	1.30				
	118	89	11.56	2240	1.45				
	138	76	10.13	2160	1.60				
	172	61	8.16	2010	1.90				
	184	57	7.63*	1980	1.95				
	212	50	6.59	1920	2.1				
	250	42	5.60*	1840	2.4				
	280	38	5.00*	1790	2.5				
	328	32	4.27	1720	2.7				
	350	30	4.00*	1690	2.8				
	415	25	3.37	1610	3.1				
	203	52	13.28*	1980	2.5	TR 27	YDA80N2	118	
	228	46	11.85	1920	2.8	TRF 27	YDA80N2	119	
	267	39	10.13	1840	3.1				
	287	37	9.41	1780	3.3				
	331	32	8.15	1720	3.7				
	354	30	7.53*	1690	3.8				
	410	25	6.59	1620	4.1				
	482	22	5.60*	1550	4.5				
	540	20	5.00*	1500	4.9				
	632	17	4.27	1430	5.2				
	675	16	4.00*	1410	5.5				
	801	13	3.37	1340	6.0				
	249	42	5.63	5680	2.6	TRX 77	YDA90S4	110	
	262	40	5.35*	5590	2.6	TRXF 77	YDA90S4	111	
	296	36	4.73	5380	3.5				
	203	52	4.53	4130	1.6	TRX 67	YDA90L6	108	
	214	49	4.30*	4070	1.65	TRXF 67	YDA90L6	109	
	244	43	3.77	3920	2.0				

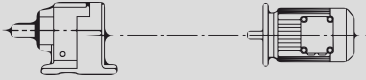
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page
1.1	309	34	4.53	3660	2.4	TRX 67	YDA 90S4	108
	325	32	4.30*	3610	2.5			TRXF 67
	371	28	3.77	3470	3.1			
	438	24	3.20*	3300	4.2			
	485	22	2.89	3200	4.9			
	551	19	2.54	3070	6.2			
	583	18	2.40*	3020	6.8			
	585	15	2.04	2870	8.8			
	754	14	1.86	2780	9.1			
	870	12	1.61	2660	9.4			
	1000	11	1.40*	2550	9.9			
	243	43	3.79	3120	1.6	TRX 57	YDA 90L6	106
	259	41	3.55*	3060	1.7			TRXF 57
	293	36	3.14	2960	1.8			
	315	33	2.91	2900	2.0			
	348	30	2.64*	2820	2.3			
	359	28	3.79	2780	2.4	TRX 57	YDA 90S4	106
	394	27	3.55*	2730	2.5			TRXF 57
	446	24	3.14	2630	2.8			
	481	22	2.91	2570	3.1			
	530	20	2.64*	2500	3.5			
	591	18	2.37	2420	3.9			
	686	15	2.04	2310	4.5			
	729	14	1.92*	2270	4.8			
	847	12	1.65	2160	5.6			
	948	11	1.48	2090	6.1			
	1075	98	1.30	2010	6.4			
	1.5	0.60	21400	2333.00	120000	0.85	TR 167 / TRF97	YDA 90L4
0.58		19000	2085.00	120000	0.95	TRF 167 / TRF97		
0.75		17000	1877.00	120000	1.05			
0.84		15100	1670.00	120000	1.20			
0.98		13300	1438.00	120000	1.35			
1.1		11800	1279.00	120000	1.50			
1.3		10300	1123.00	120000	1.75			
1.4		9180	999.00	120000	1.95			
3.3		3920	426.00	73600	3.30	TR 147 / TRF87	YDA 90L4	149
3.8		3380	368.00	73800	3.80			TRF 147 / TRF87
0.83		15900	1705.00	37900	0.80	TR 147 / TRF77	YDA 90L4	149
0.92		14300	1536.00	58600	0.90			TRF 147 / TRF77
1.1		12400	1329.00	63900	1.05			
1.2		10800	1166.00	66500	1.20			
1.4		9530	1029.00	68400	1.35			
1.5		8250	889.00	70000	1.60			
1.8		7260	784.00	71100	1.80			
2.0		6420	695.00	71900	2.00			
2.3		5780	619.00	72400	2.30			
2.5		5200	558.00	72800	2.50			
1.4		9770	1043.00	38800	0.80	TR 137 / TRF77	YDA 90L4	149
1.6		8290	888.00	52700	0.95			TRF 137 / TRF77
2.0		6500	699.00	56200	1.25			
2.3		5640	609.00	57600	1.40			
1.3		10200	1090.00	26100	0.80	TR 137 / TRF77	YDA 90L4	149
1.5		8940	951.00	49900	0.90			TRF 137 / TRF77
1.7		7750	831.00	53900	1.05			
1.9		6770	730.00	55800	1.20			
2.2		5800	629.00	57300	1.40			
2.5		5230	560.00	58100	1.55			

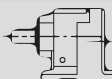
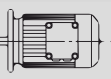
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.5	2.9	4530	490.00	59000	1.75	TR	137 / TRF77	YDA90L4	149
	3.3	3950	428.00	59600	2.00	TRF	137 / TRF77	YDA90L4	149
	3.7	3560	381.00	59900	2.30				
	4.4	3020	323.00	60300	2.70				
	2.7	4900	528.00	18500	0.90	TR	107 / TRF77	YDA90L4	149
						TRF	107 / TRF77	YDA90L4	149
	2.6	5030	544.00	10400	0.85	TR	107 / TRF77	YDA90L4	149
	2.9	4550	492.00	28100	0.95	TRF	107 / TRF77	YDA90L4	149
	3.4	3850	417.00	31700	1.10				
	3.8	3440	369.00	33400	1.25				
	4.4	3000	323.00	34900	1.45				
	3.0	4470	459.00	28500	0.95				
	4.2	3170	336.00	11300	0.95	TR	97 / TRF57	YDA90L4	149
	4.8	2790	296.00	22400	1.10	TRF	97 / TRF57	YDA90L4	149
	5.7	2330	249.00	24900	1.30				
	6.0	2180	234.00	25600	1.40				
	6.8	1950	209.00	26600	1.55				
	3.0	4710	229.95	26500	0.90	TR	107	YDA112M8	141
	3.5	4160	203.15	30200	1.05	TRF	107	YDA112M8	142
	4.1	3530	172.34	33100	1.20				
	4.4	3250	158.68	34100	1.30				
	3.7	3910	251.15	31400	1.10	TR	107	YDA100M6	141
	4.0	3580	229.95	32900	1.20	TRF	107	YDA100M6	142
	4.5	3150	203.16	34400	1.35				
	5.3	2580	172.34	35900	1.60				
	5.8	2470	158.58	36200	1.75				
	6.5	2210	141.83	36500	1.95				
	5.5	2500	255.71	23500	1.15	TR	97	YDA90L4	139
	5.8	2450	241.25	24300	1.20	TRF	97	YDA90L4	140
	6.5	2200	216.28	25600	1.35				
	7.6	1890	186.30	26800	1.60				
	8.3	1730	170.02	27300	1.75				
	9.3	1530	150.78	27600	1.95				
	11	1290	125.75	27900	2.30				
	12	1180	115.48	28000	2.50				
	14	1050	103.44	28200	2.90				
	15	940	92.48	28300	3.20				
	7.8	1850	181.77	11400	0.85	TR	87	YDA90L4	136
	9.1	1580	155.34	16700	1.00	TRF	87	YDA90L4	137
	9.9	1450	142.41	17600	1.05				
	11	1270	124.97	18600	1.20				
	12	1200	118.43*	19000	1.30				
	14	1050	103.65	19600	1.45				
	15	950	93.38	20000	1.55				
	17	830	81.92	20000	1.85				
	19	735	72.57	20000	2.10				
	22	645	63.68*	20000	2.40				
	23	615	60.35*	20000	2.50				
	27	535	52.82	20000	2.90				
	30	485	47.58	20000	3.20				
34	425	41.74	20000	3.70					
38	375	36.84*	19600	4.10					
15	940	92.97	8500	0.85	TR	77	YDA90L4	133	
17	830	81.80	9820	1.00	TRF	77	YDA90L4	134	
18	785	77.24	10200	1.05					
21	670	65.77	11100	1.25					
24	585	57.58	11600	1.40					

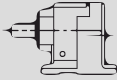
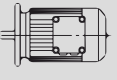
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.5	27	530	52.07	11900	1.55	TR	77	YDA 90L4	133
	31	465	45.81	12200	1.75	TRF	77	YDA 90L4	134
	33	440	43.26	12300	1.85				
	38	375	36.83	12600	2.20				
	42	340	33.47	12700	2.40				
	49	295	29.00	12500	2.80				
	56	255	25.23	12000	3.00				
	60	240	23.37	11800	3.50	TR	77	YDA 90L4	133
	66	220	21.43	11500	3.80	TRF	77	YDA 90L4	134
	75	191	18.80	11000	4.10				
	23	620	61.26	7280	0.95	TR	67	YDA 90L4	130
	25	580	56.89	7810	1.05	TRF	67	YDA 90L4	131
	27	525	51.56	8370	1.15				
	30	470	46.29	8830	1.30				
	35	405	39.88*	9300	1.45				
	38	380	37.50	9460	1.50				
	44	330	32.27	9750	1.65				
	49	295	28.83	9920	1.80				
	50	285	28.13	9950	1.90				
	53	270	26.72	9850	2.00				
	50	240	23.44	9500	2.40				
	71	200	19.89	9070	3.00				
	79	182	17.95	8810	3.20				
	27	540	53.22	5140	0.85	TR	57	YDA 90L4	127
	29	490	48.23	6010	0.90	TRF	57	YDA 90L4	128
	33	440	43.30	5920	1.00				
	38.0	380	37.30*	5770	1.20	TR	57	YDA 90L4	127
	40	355	35.07	5710	1.25	TRF	57	YDA 90L4	128
	47	305	30.18	5540	1.45				
	52	275	26.97	5420	1.65				
	54	265	26.31	5390	1.70	TR	57	YDA 90L4	127
	56	255	24.99*	5330	1.75	TRF	57	YDA 90L4	128
	64	225	21.93	5170	2.00				
	75	189	18.60*	4980	2.40				
	84	171	16.79	4850	2.60				
	95	150	14.77*	4700	2.90				
	101	142	13.95*	4630	3.00				
	119	121	11.88	4440	3.40				
	38	375	36.93	2380	0.80	TR	47	YDA 90L4	124
	41	355	34.73	3840	0.85	TRF	47	YDA 90L4	125
	47	305	29.88	4220	1.00				
	53	270	26.70	4140	1.10				
60	240	23.59	4050	1.25					
61	235	23.28	4040	1.25					
65	220	21.81	3990	1.35					
73	196	19.27	3890	1.50					
79	182	17.89	3830	1.60	TR	47	YDA 90L4	124	
87	185	15.22	3740	1.65	TRF	47	YDA 90L4	125	
97	148	14.56	3650	1.80					
112	127	12.54	3520	1.95					
120	120	11.79	3470	2.10					
139	103	10.15	3340	2.20					
155	92	9.07	3240	2.40					
175	81	8.01	3140	2.50					
182	79	7.76*	3060	2.10					
203	71	6.96	2980	2.30					
235	61	6.00	2860	2.60					

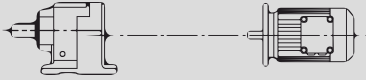
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.5	250	57	5.64*	2810	2.70	TR	47	YDA 90L4	124
	291	49	4.85	2700	3.00				TRF
	325	44	4.34	2610	3.30				
	368	39	3.83	2520	3.70				
	73	196	19.31	2660	1.00	TR	37	YDA 90L4	121
	78	183	18.05	2840	1.10				TRF
	90	159	15.60	3160	1.25				
	106	135	13.25	3350	1.40				
	119	120	11.83	3270	1.50				
	140	103	10.11	3160	1.65				
	149	96	9.47	3110	1.75				
	177	81	7.97	2980	1.95				
	211	68	6.67	2820	2.10				
	249	58	5.67	2710	2.50				
	279	51	5.06	2630	2.50				
	326	44	4.32	2520	2.90				
	348	41	4.05	2470	3.00				
	414	35	3.41	2360	3.20				
	211	68	13.25	2850	2.80	TR	37	YDA 90S2	121
	237	61	11.83	2770	3.00				TRF
	277	52	10.11	2650	3.30				
	296	48	9.47	2610	3.50				
	351	41	7.97	2480	3.80				
	90	159	15.63	1700	0.80	TR	27	YDA 90L4	118
	106	135	13.28*	2020	0.95				TRF
	119	121	11.86	2080	1.05				
	139	103	10.13	2030	1.20				
	173	83	8.16	1880	1.40				
	185	78	7.63*	1860	1.45				
	214	67	6.59	1810	1.60				
	252	57	5.60*	1750	1.75				
	282	51	5.00*	1710	1.85				
	330	43	4.27	1650	2.00				
	353	41	4.00*	1630	2.10				
	418	34	3.37	1560	2.30				
	236	61	11.86	1820	2.10	TR	27	YDA 90S2	118
	276	52	10.13	1760	2.40				TRF
	343	42	8.16	1640	2.80				
	367	39	7.63*	1610	2.90				
	425	34	6.59	1550	3.20				
	500	29	5.60*	1490	3.50				
	560	26	5.00*	1450	3.70				
	656	22	4.27	1390	4.00				
	700	21	4.00*	1360	4.20				
	831	17	3.37	1300	4.60				
	250	57	5.63	5580	1.90	TRX	77	YDA 90L4	110
	264	54	5.35*	5490	1.90				TRXF
	298	48	4.73	5300	2.60				
349	41	4.04*	5050	3.50					
381	38	3.70	4920	4.10					
434	33	3.25*	4720	5.50					
458	31	3.08*	4650	6.20					
523	27	2.70	4460	7.90					
581	25	2.43	4310	8.70					
312	45	4.53	3570	1.80	TRX	67	YDA 90L4	108	
328	44	4.30*	3520	1.85				TRXF	67
374	38	3.77	3390	2.30					

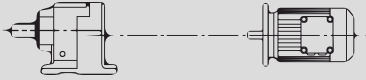
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
1.5	441	33	3.20*	3230	3.10	TRX	67	YDA90L4	108
	488	29	2.89	3140	3.60				TRXF
	555	26	2.54	3020	4.60				
	588	24	2.40*	2970	5.00				
	690	21	2.04	2820	6.40				
	759	19	1.86	2740	6.70				
	876	16	1.61	2620	7.00				
	1005	14	1.40*	2510	7.30				
	372	39	3.79	2700	1.80	TRX	57	YDA90L4	106
	397	36	3.55*	2650	1.90				TRXF
	450	32	3.14	2560	2.00				
	484	30	2.91	2510	2.30				
	534	27	2.64*	2440	2.60				
	595	24	2.37	2360	2.90				
	691	21	2.04	2260	3.30				
	734	20	1.92*	2220	3.50				
	853	17	1.65	2120	4.10				
	955	15	1.48	2050	4.50				
	1080	13	1.30	1980	4.70				
2.2	0.84	22600	1670	120000	0.80	TR	167 / TRF97	YDA100M4	149
	0.98	19700	1438	120000	0.90				TRF
	1.1	17500	1279	120000	1.05				
	1.3	15300	1123	120000	1.15				
	1.4	13600	999	120000	1.30				
	1.6	11800	861	120000	1.55				
	1.9	10400	760	120000	1.75				
	2.1	8730	656	120000	2.10				
	2.6	7200	533	71100	1.80	TR	147 / TRF87	YDA100M4	149
	3.1	6190	462	72100	2.10				TRF
	3.3	5820	426	72400	2.20				
	3.8	5030	368	72900	2.60				
	4.3	4450	326	73300	2.90				
	1.2	16000	1166	35000	0.80	TR	147 / TRF77	YDA100M4	149
	1.4	14100	1029	60300	0.90				TRF
	1.6	12200	889	54200	1.05				
	1.8	10800	784	66600	1.20				
	2.0	9520	695	68500	1.35				
	2.3	8550	519	69700	1.50				
	2.5	7690	558	70600	1.70				
	2.9	6730	489	71600	1.95				
	2.0	9620	699	41800	0.85	TR	137 / TRF77	YDA100M4	149
	2.3	8350	609	52500	0.95				TRF
	1.9	10000	730	33300	0.80	TR	137 / TRF77	YDA100M4	149
	2.2	8610	629	51400	0.95				TRF
	2.5	7730	560	54000	1.05				
	2.9	6720	490	55900	1.20				
	3.3	5850	428	57200	1.35				
	3.7	5260	361	58100	1.50				
	4.4	4460	323	59000	1.80				
	4.8	4020	291	59500	2.00				
	5.5	3510	255	59900	2.30				
	6.3	3070	223	60300	2.60				
4.4	4450	323	28600	0.95	TR	107 / TRF77	YDA100M4	149	
4.9	3920	285	31400	1.10				TRF	107 / TRF77
5.6	3470	253	33300	1.25					
6.6	2940	214	35100	1.45					
4.4	4540	325	28100	0.95					


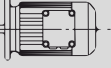
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
2.2	6.8	2880	209	21800	1.05	TR	97 / TRF57	YDA 100M4	149
						TRF	97 / TRF57	YDA 100M4	149
	3.1	6680	222.60*	55900	1.20	TR	137	YDA 132S8	143
	3.7	5660	188.45	57500	1.40	TRF	137	YDA 132S8	144
	4.0	5230	174.40*	58100	1.55				
	4.5	4690	156.31	58800	1.70				
	5.0	4240	141.12*	59300	1.90				
	5.5	3850	128.18	59500	2.10	TR	137	YDA 132S8	143
	6.2	3410	113.72	60000	2.30	TRF	137	YDA 132S8	144
	6.8	3100	103.20*	60300	2.60				
	4.6	4540	203.16	28100	0.95	TR	107	YDA 112M6	141
	5.5	3850	172.34	31700	1.10	TRF	107	YDA 112M6	142
	5.9	3550	158.68	33000	1.20				
	6.6	3170	141.83	34400	1.35				
	5.6	3740	251.15	32200	1.15	TR	107	YDA 112M6	141
	6.1	3430	229.95	33500	1.25	TRF	107	YDA 112M6	142
	6.9	3030	203.15	34900	1.40				
	8.2	2570	172.34	35100	1.65	TR	107	YDA 112M6	141
	8.9	2360	158.58	36300	1.80	TRF	107	YDA 112M6	142
	9.9	2110	141.83	36600	2.00				
	11	1900	127.58	36900	2.30				
	12	1720	115.63	37000	2.50				
	14	1530	102.53	37200	2.80				
	15	1380	92.70	37300	3.10				
	6.5	3220	216.28	7030	0.95	TR	97	YDA 100M4	139
	7.6	2780	186.30	22500	1.10	TRF	97	YDA 100M4	140
	8.3	2530	170.02	23900	1.20				
	9.3	2250	150.78	25300	1.35	TR	97	YDA 100M4	139
	11	1890	125.75	25800	1.60	TRF	97	YDA 100M4	140
	12	1740	116.48	27300	1.75				
	14	1540	103.44	27500	1.95				
	15	1380	92.48	27800	2.20				
	17	1240	83.15	28000	2.40				
	20	1080	72.17	28200	2.80				
	22	970	65.21	27700	3.10				
	24	890	59.92	27000	3.40				
	27	795	53.21	26100	3.80				
	30	710	47.58	25300	4.20				
	11	1860	124.97	10100	0.85	TR	87	YDA 100M4	136
	12	1760	118.43*	15200	0.90	TRF	87	YDA 100M4	137
	14	1540	103.55	17000	1.00				
	15	1390	93.38	17900	1.10				
	17	1220	81.92	18900	1.25				
	19	1080	72.57	19500	1.45				
	22	950	63.58*	20000	1.55				
	23	900	60.35*	20000	1.70				
	27	785	52.82	20000	1.95				
30	710	47.58	20000	2.20					
34	620	41.74	19900	2.50					
38	550	36.84*	19200	2.80					
43	485	32.66*	18500	3.20					
41	515	34.40*	18800	2.9	TR	87	YDA 100M4	136	
45	470	31.40	18300	3.3	TRF	87	YDA 100M4	137	
51	415	27.84*	17700	3.7					
60	350	23.40	16800	4.5					
66	320	21.51	16400	4.7					


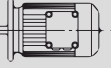
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page				
2.2	21	980	65.77	5470	0.85	TR	77	YDA 100M4	133			
	24	860	57.68	9540	0.95				TRF	77	YDA 100M4	134
	27	775	52.07	10300	1.05							
	31	685	45.81	11000	1.20							
	33	645	43.26	11300	1.25							
	38	550	36.83	11800	1.50							
	42	500	33.47	12100	1.65							
	49	430	29.00	12100	1.9							
	56	375	25.23	11700	2.1							
	60	350	23.37	11400	2.4							
	66	320	21.43	11200	2.6							
	75	280	18.80	10800	2.8							
	79	265	17.82*	10600	2.9							
	90	230	15.60	10200	3.2							
	100	210	14.05	9910	3.4							
	as	595	39.88'	7630	1.0				TR	67	YDA 100M4	130
	38	560	37.50	8020	1.0				TRF	67	YDA 100M4	131
	44	480	32.27	8750	1.1							
	49	430	28.83	9140	1.2							
	60	350	23.44	9140	1.6				TR	67	YDA 100M4	130
	71	295	19.89	8760	2.0				TRF	67	YDA 100M4	131
	79	270	17.95	8530	2.2							
	89	235	15.79	8240	2.4							
	95	220	14.91	8110	2.5							
	111	189	12.70	7760	2.8							
	122	172	11.54	7560	2.9							
	141	149	10.00	7250	3.2							
	162	130	8.70*	6960	3.4							
	181	116	7.79	6760	3.3							
	38	555	37.30*	4490	0.80				TR	57	YDA 100M4	127
	40	525	35.07	5110	0.85				TRF	57	YDA 100M4	128
	47	450	30.18	5030	1.00							
	52	400	26.97	4960	1.10							
	64	325	21.93	4800	1.4				TR	57	YDA 100M4	127
	76	275	18.80*	4660	1.5				TRF	57	YDA 100M4	128
	84	250	16.79	4570	1.8							
	95	220	14.77*	4450	2.0							
	101	210	13.95*	4390	2.1							
	119	177	11.88	4230	2.3							
	131	161	10.79	4140	2.4							
	151	139	9.35	4000	2.7							
	156	135	9.06	3980	2.8							
	177	119	7.97	3850	3.0							
	107	197	26.31	4340	2.3				TR	57	YDA 90L2	127
	112	187	24.99*	4290	2.4				TRF	57	YDA 90L2	128
	128	164	21.93	4160	2.8							
	151	139	18.60*	3990	3.2							
	167	125	16.79	3890	3.6							
	190	111	14.77*	3750	3.9							
	201	104	13.95*	3710	4.1							
	73	285	19.27	3550	1.05				TR	47	YDA 100M4	124
	87	240	16.22	3460	1.15				TRF	47	YDA 100M4	125
	97	215	14.56	3400	1.20							
	112	187	12.54	3310	1.35							
	120	176	11.79	3270	1.40							
	139	151	10.15	3160	1.50							
	155	135	9.07	3090	1.65							

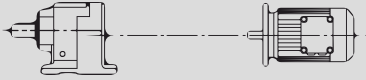
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2.2	176	119	8.01	3000	1.70	TR	47	YDA100M4	124
	182	116	7.75*	2910	1.40			TRF	47
	203	104	5.95	2840	1.55				
	235	89	6.00	2740	1.75				
	250	84	5.64*	2700	1.85				
	291	72	4.85	2600	2.10				
	325	65	4.34	2530	2.30				
	368	57	3.83	2440	2.50				
	121	174	23.28	3260	1.70	TR	47	YDA 90L2	124
	129	163	21.81	3220	1.85			TRF	47
	146	144	19.27	3130	2.10				
	157	134	17.89	3080	2.20				
	173	121	16.22	3010	2.30				
	193	109	14.55	2930	2.40				
	224	94	12.54	2830	2.70				
	238	88	11.79	2780	2.80				
	277	76	10.15	2680	3.00				
	310	68	9.07	2600	3.20				
	351	60	8.01	2510	3.40				
	90	230	15.60	1070	0.85	TR	37	YDA 100M4	121
	106	198	13.25	1660	0.95			TRF	37
	119	176	11.83	1990	1.05				
	140	151	10.11	2360	1.15				
	149	141	9.47	2480	1.20				
	177	119	7.97	2750	1.30				
	211	99	6.67	2470	1.45				
	249	84	5.67	2570	1.70				
	279	75	5.06	2500	1.80				
	326	64	4.32	2410	1.95				
	348	60	4.05	2370	2.00				
	414	51	3.41	2270	2.20				
	146	144	19.31	2440	1.40	TR	37	YDA 90L2	121
	156	135	18.05	2560	1.50			TRF	37
	180	117	15.50	2780	1.70				
	212	99	13.25	2700	1.90				
	237	89	11.83	2630	2.10				
	278	76	10.11	2540	2.30				
	297	71	9.47	2500	2.40				
	352	60	7.97	2390	2.60				
	421	50	6.57	2260	2.90				
	496	42	5.67	2170	3.40				
	555	38	5.06	2100	3.60				
	550	32	4.32	2010	3.90				
	694	30	4.05	1980	4.00	TR	37	YDA 90L2	121
	824	25	3.41	1880	4.40			TRF	37
	139	151	10.13	1120	0.80	TR	27	YDA 100M4	118
214	98	6.59	1130	1.10	TRF			27	YDA 100M4
252	83	5.60*	1390	1.20					
282	75	5.00*	1540	1.30					
330	64	4.27	1540	1.35					
353	60	4.00*	1520	1.45					
418	50	3.37	1470	1.55					
212	99	13.28*	1710	1.30	TR	27	YDA 90L2	118	
237	89	11.85	1680	1.45			TRF	27	YDA 90L2
277	76	10.13	1640	1.60					
344	61	8.16	1520	1.90					
369	57	7.63*	1500	1.95					

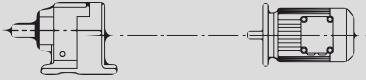
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2.2	426	49	6.59	1460	2.20	TR	27	YDA 90L2	118															
	502	42	5.60*	1410	2.40				TRF	27	YDA 90L2	119												
	562	37	5.00*	1380	2.50							TRX	77	YDA 100M4	110									
	658	32	4.27	1330	2.70										TRXF	77	YDA 100M4	111						
	703	30	4.00*	1310	2.80													TRX	67	YDA 100M4	108			
	834	25	3.37	1250	3.10																TRXF	67	YDA 100M4	109
	298	70	4.73	5180	1.75	TRX	57	YDA 100M4																106
	349	60	4.04*	4950	2.40				TRXF	57	YDA 100M4													107
	381	55	3.7	4820	2.80							TRX	57	YDA 100M4										106
	434	48	3.25*	4540	3.80										TRXF	57	YDA 100M4							107
	458	46	3.08*	4560	4.20													TRX	57	YDA 100M4				106
	523	40	2.7	4380	5.40																TRXF	57	YDA 100M4	107
	581	36	2.43	4250	5.90	TRX	57	YDA 100M4																106
	662	32	2.13	4080	6.30				TRXF	57	YDA 100M4													107
	750	28	1.88*	3920	6.70							TRX	57	YDA 100M4										106
	846	25	1.67	3780	7.00										TRXF	57	YDA 100M4							107
	991	21	1.42	3590	7.30													TRX	57	YDA 100M4				106
	374	56	3.77	3280	1.55																TRXF	67	YDA 100M4	109
	441	48	3.20*	3130	2.10	TRX	67	YDA 100M4																108
	458	43	2.89	3050	2.50				TRXF	67	YDA 100M4													109
	555	38	2.54	2940	3.10							TRX	67	YDA 100M4										108
	585	36	2.40*	2890	3.40										TRXF	67	YDA 100M4							109
	690	30	2.04	2760	4.40													TRX	67	YDA 100M4				108
	759	28	1.86	2580	4.60																TRXF	67	YDA 100M4	109
	876	24	1.61	2570	4.80	TRX	67	YDA 100M4																108
	1005	21	1.40*	2460	5.00				TRXF	67	YDA 100M4													109
	450	47	3.14	2450	1.40							TRX	57	YDA 100M4										106
	534	39	2.64*	2340	1.75										TRXF	57	YDA 100M4							107
595	35	2.37	2280	1.95	TRX													57	YDA 100M4	106				
691	30	2.04	2190	2.30																TRXF	57	YDA 100M4	107	
734	29	1.92*	2150	2.40		TRX	57	YDA 100M4															106	
853	25	1.65	2060	2.80					TRXF	57	YDA 100M4												107	
955	22	1.48	1990	3.10								TRX	57	YDA 100M4									106	
1080	19	1.3	1930	3.30											TRXF	57	YDA 100M4						107	
3.0	1.2	21200	1123	120000	0.85													TR	167 / TRF97				YDA 100L4	149
	1.4	18900	999	120000	0.95															TRF	167 / TRF97	YDA 100L4		149
	1.6	16300	861	120000	1.10	TR	147 / TRF87	YDA 100L4																149
	1.8	14400	760	120000	1.25				TRF	147 / TRF87	YDA 100L4													149
	2.1	12200	656	120000	1.50							TR	147 / TRF77	YDA 100L4										149
	2.8	9330	503	120000	1.95										TRF	147 / TRF77	YDA 100L4							149
	2.6	9990	533	57800	1.30																			TR
	3.0	8610	462	59600	1.50													TRF	137 / TRF77				YDA 100L4	
	3.3	8060	426	70200	1.60															TR	137 / TRF77	YDA 100L4		
	3.8	6960	368	71400	1.85	TRF	137 / TRF77	YDA 100L4																
	4.3	6150	326	72100	2.10				TR	137 / TRF77	YDA 100L4													
	5.0	5230	280	72800	2.50							TRF	137 / TRF77	YDA 100L4										
	1.6	16900	889	21900	0.75										TR	147 / TRF77	YDA 100L4							
	1.8	14900	784	52000	0.85																			TRF
	2.0	13200	695	62300	1.00													TR	137 / TRF77				YDA 100L4	
	2.3	11800	619	64900	1.10															TRF	137 / TRF77	YDA 100L4		
	2.5	10600	558	66900	1.20	TR	137 / TRF77	YDA 100L4																
	2.9	9280	490	48100	0.85				TRF	137 / TRF77	YDA 100L4													
	3.3	8100	428	53200	1.00							TR	137 / TRF77	YDA 100L4										
	3.7	7260	381	54900	1.10										TRF	137 / TRF77	YDA 100L4							
4.3	6160	323	56800	1.30	TR																			137 / TRF77
4.8	5540	291	57700	1.45														TRF	137 / TRF77				YDA 100L4	
5.5	4840	255	58500	1.65																TR	137 / TRF77	YDA 100L4		
6.3	4240	223	59300	1.90		TRF	137 / TRF77	YDA 100L4																

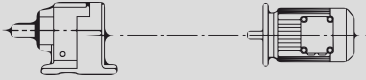
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3.0	2.7	9990	517	34100	0.80	TR	137 / TRF77	YDA 100L4	149
	3.1	8760	453	50700	0.90	TRF	137 / TRF77	YDA 100L4	149
	5.5	4790	253	23500	0.90	TR	107 / TRF77	YDA 100L4	149
	6.5	4060	214	30700	1.05	TRF	107 / TRF77	YDA 100L4	149
	7.5	3550	187	33000	1.20				
	5.5	4930	256	17400	0.85	TR	107 / TRF77	YDA 100L4	149
						TRF	107 / TRF77	YDA 100L4	149
	3.2	8850	222.60*	50300	0.90	TR	137	YDA 132M8	143
	3.8	7500	188.45	54400	1.05	TRF	137	YDA 132M8	144
	4.1	6940	174.40*	55500	1.15				
	4.6	5220	156.31	56700	1.30				
	5.1	5620	141.12*	57600	1.40				
	5.6	5100	128.18	58300	1.55	TR	137	YDA 132M8	143
	6.3	4520	113.72	59000	1.75	TRF	137	YDA 132M8	144
	7.0	4110	103.20*	59400	1.95				
	8.1	3530	88.70*	59900	2.30				
	4.2	6780	222.60*	55800	1.20	TR	137	YDA 132S6	143
	5.0	5740	188.45	57400	1.40	TRF	137	YDA 132S6	144
	5.4	5320	174.40*	58000	1.50				
	6.0	4760	156.31	58700	1.70				
	6.7	4300	141.12*	59200	1.85				
	7.3	3910	128.18	59600	2.10				
	8.3	3470	113.72	50000	2.30				
	9.1	3150	103.20*	60200	2.50				
	5.9	4840	158.68	21500	0.90	TR	107	YDA 132S6	141
	6.6	4320	141.83	29300	1.00	TRF	107	YDA 132S6	142
	7.4	3890	127.68	31500	1.10				
	6.1	4710	229.95	25500	0.90	TR	107	YDA 100L4	141
	6.9	4150	203.16	30200	1.05	TRF	107	YDA 100L4	142
	8.1	3530	172.34	33100	1.20				
	8.8	3250	158.68	34100	1.30				
	9.9	2900	141.83	35300	1.50				
	11	2610	127.68	35000	1.65				
	12	2370	115.63	38300	1.50				
	14	2100	102.53	36700	2.10				
	15	1900	92.70	36900	2.30				
	18	1610	78.57	35900	2.70				
	19	1490	72.88	35200	2.90				
	9.3	3090	150.78	15200	0.95	TR	97	YDA 100L4	139
	11	2590	126.75	23500	1.15	TRF	97	YDA 100L4	140
	12	2380	116.48	24700	1.25				
	14	2120	103.44	25900	1.40				
	15	1890	92.48	25800	1.60				
	17	1700	83.15	27300	1.75				
	19	1480	72.17	27700	2.00				
	21	1330	65.21	27000	2.30				
23	1230	59.92	25400	2.50					
26	1090	53.21	25500	2.80					
29	970	47.58	24800	3.10					
33	880	42.78	24000	3.40					
38	760	37.13	23100	4.00					
42	580	33.25	22400	4.30					
15	1910	93.38	3530	0.80	TR	87	YDA 100L4	136	
17	1680	81.92	16000	0.90	TRF	87	YDA 100L4	137	
19	1490	72.57	17400	1.05					
22	1300	63.68*	18400	1.20					


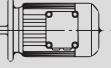
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	27	1080	52.82	19500	1.45	TRF	87	YDA 100L4	137
	29	970	47.58	19900	1.60				
	34	850	41.74	19400	1.80				
	38	755	36.84*	18700	2.10				
	43	670	32.66*	18100	2.30				
	50	570	27.88	17400	2.60				
	41	705	34.40*	18400	2.10	TR	87	YDA 100L4	136
	45	640	31.40	17900	2.40	TRF	87	YDA 100L4	137
	50	570	27.84*	17400	2.70				
	60	480	23.40	16500	3.20				
	55	440	21.51	16100	3.40				
	73	390	19.10	15600	3.70				
	82	350	17.08*	15100	4.00				
	91	315	15.35	14600	4.30				
	31	940	45.81	8670	0.85	TR	77	YDA 100L4	133
	32	890	43.26	9270	0.95	TRF	77	YDA 100L4	134
	38	755	36.83	10500	1.10				
	42	685	33.47	11000	1.20				
	48	595	29.00	11600	1.40	TR	77	YDA 100L4	133
	55	515	25.23	11300	1.50	TRF	77	YDA 100L4	134
	60	480	23.37	11100	1.70	TR	77	YDA 100L4	133
	65	440	21.43	10800	1.85	TRF	77	YDA 100L4	134
	74	385	18.80	10500	2.00				
	79	365	17.82*	10300	2.10				
	90	320	15.60	9980	2.30				
	100	290	14.05	9700	2.50				
	114	250	12.33	9350	2.70				
	129	225	10.88	9030	3.00				
	145	197	9.64	8720	3.20				
	163	176	8.59	8500	3.60				
	181	158	7.74	8240	3.90				
	206	139	6.79	7920	4.20				
	60	480	23.44	8730	1.15	TR	67	YDA 100L4	130
	70	405	19.89	8420	1.45	TRF	67	YDA 100L4	131
	78	365	17.95	8230	1.60				
	89	325	15.79	7980	1.75				
	94	305	14.91	7860	1.80				
	110	260	12.70	7550	2.00				
	121	235	11.54	7360	2.10				
	140	205	10.00	7090	2.30				
	52	550	26.97	4330	0.80	TR	57	YDA 100L4	127
64	450	21.93	4380	1.00	TRF	57	YDA 100L4	128	
75	380	18.60*	4300	1.20					
B3	345	16.79	4250	1.30					
95	300	14.77*	4160	1.45					
100	285	13.95*	4130	1.50					
118	245	11.88	4010	1.65					
130	220	10.79	3940	1.75					
150	191	9.35	3820	1.95					
155	185	9.06	3810	2.00					
176	163	7.97	3700	2.20					
186	154	7.53	3650	2.30					
218	131	6.41	3520	2.60					
240	119	5.82	3430	2.70					
277	103	5.05	3310	3.00					
319	90	4.39	3190	3.10					

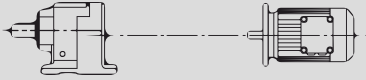
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3.0	128	225	21.93	3950	2.00	TR	57	YDA 100M2	127			
	151	190	18.60*	3820	2.40				TRF	57	YDA 100M2	128
	167	172	16.79	3730	2.60							
	190	151	14.77*	3520	2.90							
	201	143	13.95*	3570	3.00							
	236	122	11.88	3440	3.30							
	259	110	10.79	3360	3.50							
	86	330	16.22	2030	0.85	TR	47	YDA 100L4				124
	96	300	14.56	2500	0.90				TRF	47	YDA 100L4	125
	112	255	12.54	3040	0.95							
	119	240	11.79	3040	1.00							
	13B	210	10.15	2970	1.10							
	154	186	9.07	2910	1.20							
	175	164	8.01	2840	1.25							
	181	159	7.76*	2740	1.05							
	201	143	6.95	2680	1.10							
	233	123	6.00	2610	1.25							
	248	115	5.64*	2580	1.35							
	288	99	4.85	2490	1.50							
	323	89	4.34	2430	1.65							
	365	78	3.83	2360	1.85							
	237	121	11.79	2670	2.00	TR	47	YDA 100M2	124			
	276	104	10.15	2580	2.20				TRF	47	YDA 100M2	125
	309	93	9.07	2510	2.40							
	349	82	8.01	2430	2.50							
	361	79	7.76*	2370	2.10							
	402	71	6.96	2310	2.20							
	467	61	6.00	2220	2.50							
	496	58	5.64*	2190	2.70							
	577	50	4.85	2100	3.00							
	646	44	4.34	2040	3.30							
	731	39	3.83	1970	3.70							
	139	205	10.11	780	0.80	TR	37	YDA 100L4	121			
	148	194	9.47	1010	0.65				TRF	37	YDA 100L4	122
	176	163	7.97	1510	0.95							
	210	137	6.67	1250	1.05							
	247	116	5.67	1530	1.25							
	277	104	5.06	1830	1.30							
	324	88	4.32	2070	1.45							
	346	83	4.05	2140	1.45							
	411	70	3.41	2180	1.60							
	277	103	10.11	2340	1.65	TR	37	YDA 100L4	121			
	296	97	9.47	2380	1.70				TRF	37	YDA 100L4	122
	351	82	7.97	2290	1.90							
	420	68	6.67	2170	2.10							
	494	58	5.67	2090	2.50							
	553	52	5.06	2030	2.60							
648	44	4.32	1950	2.90								
692	41	4.05	1920	3.00								
821	35	3.41	1840	3.20								
250	115	5.60*	360	0.85	TR	27	YDA 100L4	118				
280	102	5.00*	515	0.95				TRF	27	YDA 100L4	119	
328	87	4.27	910	1.00								
350	82	4.00*	1010	1.05								
415	69	3.37	1230	1.15								

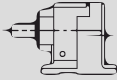
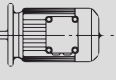
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
3.0	425	67	6.59	1260	1.55	TR	27	YDA100M2	118
	500	57	5.60*	1330	1.75				TRF
	560	51	5.00*	1300	1.85				
	656	44	4.27	1260	2.00				
	700	41	4.00*	1240	2.10				
	831	35	3.37	1200	2.30				
	217	132	6.45	7130	1.45	TRX	87	YDA100L4	112
	252	114	5.56*	6830	2.00				TRXF
	276	104	5.07	6650	2.40				
	311	92	4.50*	6430	3.20				
	370	77	3.78	6100	3.90				
	296	97	4.73	5050	1.25	TRX	77	YDA100L4	110
	347	83	4.04*	4630	1.75				TRXF
	378	76	3.70	4720	2.00				
	431	67	3.25*	4550	2.70				
	455	53	3.08*	4480	3.10				
	371	77	3.77	3150	1.15	TRX	67	YDA100L4	108
	438	55	3.20*	3030	1.55				TRXF
	485	59	2.89	2950	1.80				
	551	52	2.54	2850	2.30				
583	49	2.40*	2810	2.50					
685	42	2.04	2690	3.20					
754	38	1.86	2610	3.30					
870	33	1.61	2510	3.50					
1000	29	1.40*	2410	3.50					
446	64	3.14	2330	1.00	TRX	57	YDA100L4	106	
530	54	2.64*	2240	1.30				TRXF	57
591	49	2.37	2180	1.40					
586	42	2.04	2100	1.65					
729	39	1.92*	2070	1.75					
847	34	1.65	1990	2.00					
948	30	1.48	1930	2.30					
1075	27	1.30	1870	2.40					
4.0	1.7	21500	861	120000	0.85	TR	167 / TRF97	YDA100M4	149
	1.9	19000	760	120000	0.95				TRF
	2.2	16100	656	120000	1.10				
	2.8	12400	503	120000	1.45				
	3.8	9260	376	120000	1.95				
	4.2	8240	335	120000	2.20				
	2.7	13200	533	62200	1.00	TR	147 / TRF87	YDA112M4	149
	3.1	11400	462	65600	1.15				TRF
	3.3	10600	426	66800	1.20				
	3.9	9190	368	68900	1.40				
	4.4	8130	326	70200	1.60				
	5.1	6920	280	71400	1.90				
	5.7	6110	247	72100	2.10				
	6.7	5280	214	72800	2.50				
	7.5	4670	189	73200	2.80				
	9.0	3920	159	73600	3.30				
	2.3	15500	619	43200	0.85	TR	147 / TRF77	YDA112M4	149
	2.5	14000	558	60500	0.95				TRF
	2.9	12300	489	64100	1.05				
	3.4	10400	415	67200	1.25				

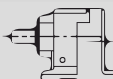
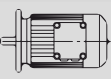
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
4.0	3.7	9570	381	42700	0.85	TR	137 / TRF77	YDA112M4	149
	4.4	8120	323	53100	1.00	TRF	137 / TRF77	YDA112M4	149
	4.9	7310	291	54800	1.10				
	5.6	6390	255	56400	1.25				
	6.4	5600	223	57600	1.45				
	3.8	9560	376	43000	0.85	TR	137 / TRF77	YDA112M4	149
	4.2	8600	339	51400	0.95	TRF	137 / TRF77	YDA112M4	149
	4.8	7540	297	54300	1.05				
	7.6	4680	187	27200	0.90	TR	107 / TRF77	YDA112M4	149
						TRF	107 / TRF77	YDA112M4	149
	7.3	4890	193	19000	0.90	TR	107 / TRF77	YDA112M4	149
	8.2	4380	172	29000	1.00	TRF	107 / TRF77	YDA112M4	149
	4.4	8660	163.31	69500	1.50	TR	147 / TRF77	YDA132ML8	145
	4.9	7790	146.91	70500	1.65	TRF	147 / TRF77	YDA 132ML8	146
	6.0	6360	119.86	71900	2.00				
	6.6	5800	109.31	72400	2.20				
	4.1	9250	174.40*	48400	0.85	TR	137	YDA132ML8	143
	4.6	8290	156.31	52700	0.95	TRF	137	YDA132ML8	144
	5.1	7490	141.12*	54400	1.05				
	5.6	6800	128.18	55700	1.20				
	6.3	6030	113.72	57000	1.35				
	7.0	5470	103.20*	57800	1.45				
	4.3	8860	222.60*	50300	0.90	TR	137	YDA132M6	143
	5.1	7500	188.45	54400	1.05	TRF	137	YDA132M6	144
	5.5	6940	174.40*	55500	1.15				
	6.1	6220	156.31	56700	1.30				
	6.8	5620	141.12*	57600	1.40				
	7.5	5100	128.18	58300	1.55				
	8.4	4520	113.72	59000	1.75	TR	137	YDA132M6	143
	9.3	4110	103.20*	59400	1.95	TRF	137	YDA132M6	144
	11	3530	88.70*	59900	2.30				
	8.2	4640	172.34	27500	0.95	TR	107	YDA112M4	141
	9.0	4270	158.68	29600	1.00	TRF	107	YDA112M4	142
	10	3820	141.83	31900	1.15				
	11	3430	127.68	33400	1.25				
	12	3110	115.63	34600	1.40				
	14	2760	102.53	35700	1.55				
	15	2490	92.70	36200	1.70				
	18	2110	78.57	34900	2.00				
	19	1960	72.88	34200	2.20				
	22	1760	65.60*	33200	2.40				
	24	1600	59.41	32300	2.70				
	27	1420	52.68	31300	3.00				
12	3130	116.48	13800	0.95	TR	97	YDA112M4	139	
14	2780	103.44	22400	1.10	TRF	97	YDA112M4	140	
15	2490	92.48	24100	1.20					
17	2240	83.15	25400	1.35					
20	1940	72.17	26600	1.55					
22	1750	65.21	26000	1.70					
24	1610	59.92	25500	1.85					
27	1430	53.21	24700	2.10					
30	1280	47.58	24000	2.30					
33	1150	42.78	23400	2.60					
38	1000	37.13	22500	3.00					
43	890	33.25	21800	3.20					

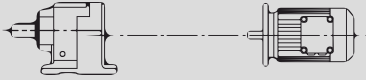
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
4.0	44	860	32.05	21600	3.00	TR	97	YDA 112M4	139
	52	730	27.19	20600	3.50				TRF
	57	675	25.03	20100	4.20				
	63	600	22.37	19500	4.50				
	71	540	20.14	18900	4.80				
	22	1710	63.68*	13300	0.90	TR	87	YDA 112M4	136
	24	1620	60.35*	13900	0.95				TRF
	27	1420	52.82	15200	1.10				
	30	1280	47.58	16000	1.20	TR	87	YDA 112M4	136
	34	1120	41.74	16800	1.40				TRF
	39	990	36.84*	17400	1.55				
	43	880	32.66*	17500	1.75				
	51	750	27.88	16800	2.00				
	41	930	34.40*	17600	1.60	TR	87	YDA 112M4	136
	45	840	31.40	17400	1.85				TRF
	51	750	27.84*	16800	2.10				
	61	630	23.40	16100	2.50				
	66	580	21.51	15700	2.60				
	74	515	19.10	15200	2.80				
	83	460	17.08*	14700	3.00				
	92	415	15.35	14300	3.20				
	107	360	13.33	13700	3.60				
	119	320	11.93	13300	3.80				
	39	990	36.83	4070	0.85	TR	77	YDA 112M4	133
	42	900	33.47	9100	0.90				TRF
	49	780	29.00	10300	1.05				
	56	680	25.23	10800	1.15				
	61	630	23.37	10600	1.30	TR	77	YDA 112M4	133
	66	575	21.43	10400	1.40				TRF
	76	505	18.80	10100	1.55				
	80	480	17.82*	9950	1.65				
	91	420	15.60	9630	1.75				
	101	380	14.05	9380	1.90				
	115	330	12.33	9070	2.10				
	131	295	10.88	8780	2.30				
	147	260	9.64	8500	2.40				
	165	230	8.59	8320	2.70				
	183	210	7.74	8070	2.90				
	209	183	6.79	7770	3.20				
	237	161	5.99*	7490	3.40				
	267	143	5.31*	7230	3.60				
	71	535	19.89	7960	1.10	TR	67	YDA 112M4	130
79	485	17.95	7800	1.20	TRF				67
90	425	15.79	7500	1.30					
95	400	14.91	7510	1.35					
112	340	12.70	7240	1.50	TR	67	YDA 112M4	130	
123	310	11.54	7080	1.60				TRF	67
142	270	10.00	6840	1.75					
163	235	8.70*	6600	1.90					
182	210	7.79	6440	1.80					
193	198	7.36*	6340	1.85					
227	169	6.27	6070	1.95					
249	153	5.70	5920	2.00					
288	133	4.93	5680	2.20					
331	116	4.29	5460	2.30					

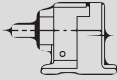
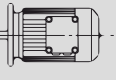
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page
4.0	76	500	18.60*	3520	0.90	TR 57	YDA 112M4	127
	85	450	16.79	3830	1.00			TRF 57
	96	395	14.77*	3800	1.10			
	102	375	13.95*	3780	1.15			
	120	320	11.88	3710	1.25			
	132	290	10.79	3660	1.35			
	152	250	9.35	3580	1.45			
	157	245	9.06	3590	1.55			
	178	215	7.97	3500	1.65			
	189	205	7.53	3470	1.75			
	222	172	6.41	3350	1.95			
	244	157	5.82	3280	2.00			
	281	136	5.05	3180	2.30			
	323	118	4.39	3070	2.40			
	140	275	10.15	1960	0.85	TR 47	YDA 112M4	124
	157	245	9.07	2350	0.90			TRF 47
	177	215	8.01	2640	0.95			
	204	187	6.96	2480	0.85			
	237	161	6.00	2430	0.95			
	252	152	5.64*	2410	1.00			
	293	131	4.85	2350	1.15			
	327	117	4.34	2300	1.25			
	371	103	3.83	2250	1.40			
	176	215	16.22	2640	1.25	TR 47	YDA 112M2	124
	196	195	14.56	2600	1.35			TRF 47
	228	168	12.54	2540	1.50			
	242	158	11.79	2510	1.55			
	282	136	10.15	2440	1.70			
	315	121	9.07	2390	1.80			
	357	107	8.01	2320	1.90			
	369	104	7.76*	2250	1.55			
	411	93	6.96	2200	1.70			
	477	80	6.00	2130	1.95			
	507	75	5.64*	2100	2.10			
	589	65	4.85	2020	2.30			
	660	58	4.34	1970	2.50			
	746	51	3.83	1910	2.80			
	255	150	5.56*	6630	1.50	TRX 87	YDA 112M4	112
	280	137	5.07	6470	1.85			TRXF 87
	316	121	4.50*	6260	2.40			
	375	102	3.78	5960	3.00			
	351	109	4.04*	4670	1.30	TRX 77	YDA 112M4	110
383	100	3.70	4560	1.55	TRXF 77			YDA 112M4
437	B7	3.25*	4410	2.10				
461	83	3.08*	4350	2.30				
527	73	2.70	4190	3.00				
585	65	2.43	4070	3.30				
667	57	2.13	3920	3.50				
755	51	1.88*	3780	3.70				
852	45	1.67	3650	3.90				
998	38	1.42	3480	4.10				
444	86	3.20*	2870	1.15	TRX 67	YDA 112M4	108	
492	78	2.89	2810	1.35			TRXF 67	YDA 112M4
559	68	2.54	2730	1.75				
592	55	2.40*	2690	1.90				
695	55	2.04	2580	2.40				
765	50	1.86	2520	2.50				

P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page	
4.0	883	43	1.61	2420	2.60	TRX	67	YDA112M4	108
	1015	38	1.40*	2330	2.80	TRXF	67	YDA112M4	109
	538	71	2.64*	1670	0.95	TRX	57	YDA112M4	106
	599	64	2.37	1780	1.10	TRXF	57	YDA112M4	107
	696	55	2.04	1910	1.25				
	740	52	1.92*	1940	1.35				
	859	44	1.65	1900	1.55				
	962	40	1.48	1840	1.70				
1090	35	1.30	1790	1.80					
5.5	2.2	22200	656	120000	0.80	TR	167 / TRF97	YDA132S4	149
	2.5	19400	579	120000	0.95	TRF	167 / TRF97	YDA132S4	149
	2.8	17000	503	120000	1.05				
	3.3	14500	432	120000	1.25				
	3.8	12700	376	120000	1.40				
	4.3	11300	335	120000	1.60				
	4.7	10200	303	120000	1.75				
	5.1	9360	279	120000	1.90				
	3.1	15700	462	41200	0.85	TR	147 / TRF87	YDA132S4	149
	3.4	14600	426	55400	0.90	TRF	147 / TRF87	YDA132S4	149
	3.9	12600	368	53500	1.05				
	4.4	11100	326	66000	1.15				
	5.1	9520	280	68500	1.35				
	5.8	8400	247	69900	1.55				
	6.7	7250	214	71100	1.80				
	7.6	6410	189	71900	2.00				
	3.1	17000	229.71	120000	1.05	TR	167	YDA160M8	147
	3.8	13800	186.93*	120000	1.30	TRF	167	YDA160M8	148
	4.6	11300	153.07	120000	1.50				
	5.1	10400	139.98	120000	1.75				
	5.8	9010	121.81*	120000	2.00				
	4.4	12100	163.31	64400	1.10	TR	147	YDA160M8	145
	4.8	10900	146.91	66500	1.20	TRF	147	YDA160M8	146
	5.9	8870	119.86	69300	1.45				
	6.5	8090	109.31	70200	1.60				
	5.9	8930	163.31	69200	1.45	TR	147	YDA132ML6	145
	6.5	8040	146.91	70300	1.60	TRF	147	YDA132ML6	146
	8.0	6560	119.86	71700	2.00				
	8.8	5980	109.31	72200	2.20	TR	147	YDA132ML6	145
	10	5180	94.60*	72800	2.50	TRF	147	YDA132ML6	146
	12	4570	63.47	73200	2.90				
	5.5	9480	126.18	44400	0.85	TR	137	YDA160M8	143
	6.2	8410	113.72	52200	0.95	TRF	137	YDA160M8	144
	6.9	7630	103.20*	54200	1.05				
	8.0	6560	88.70*	56100	1.20				
	5.5	9540	174.40*	43300	0.85	TR	137	YDA132ML6	143
	6.1	8550	156.31	51600	0.95	TRF	137	YDA132ML6	144
	6.8	7720	141.12*	54000	1.05				
	7.5	7010	128.18	55300	1.15				
	8.4	6220	113.72	56700	1.30				
	9.3	5650	103.20*	57600	1.40				
	6.4	8180	222.60*	53000	1.00	TR	137	YDA132S4	143
7.6	6920	188.45	55500	1.15	TRF	137	YDA132S4	144	
8.2	6410	174.40*	56400	1.25					
9.2	5740	156.31	57400	1.40					
10	5180	141.12*	58200	1.55					

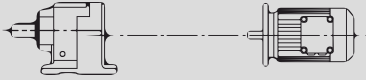
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page	
5.5	11	4710	128.18	58800	1.70	TR	137	YDA 132S4	143
	13	4180	113.72	59300	1.90	TRF	137	YDA 132S4	144
	14	3790	103.20*	59700	2.10				
	16	3260	88.70*	60200	2.50				
	18	2970	80.91*	60400	2.70				
	19	2700	73.49	60500	3.00				
	22	2390	65.20	50700	3.30				
	24	2170	59.17*	60900	3.70				
	28	1870	50.86*	61000	4.30				
	11	4690	127.68	27100	0.90	TR	107	YDA 132S4	141
	12	4250	115.63	29800	1.00	TRF	107	YDA 132S4	142
	14	3770	102.53	32100	1.15				
	15	3400	92.70	33500	1.25				
	1B	2890	78.57	33500	1.50				
	20	2680	72.88	32900	1.60				
	22	2410	65.60*	32100	1.80				
	24	2180	59.41	31300	1.95				
	27	1930	52.68	30300	2.20				
	30	1750	47.63	29500	2.50				
	35	1480	40.37*	28200	2.90				
	17	3050	83.15	17600	1.00	TR	97	YDA 132S4	139
	20	2650	72.17	21800	1.15	TRF	97	YDA 132S4	140
	22	2390	55.21	24600	1.25				
	24	2200	59.92	24200	1.35				
	27	1950	53.21	23600	1.55				
	30	1750	47.58	23000	1.70				
	33	1570	42.78	22500	1.90				
	39	1360	37.13	21700	2.20				
	43	1220	33.25	21100	2.40				
	52	1010	27.58	20100	2.60				
	45	1180	32.05	20900	2.20	TR	97	YDA 132S4	139
	53	1000	27.19	20000	2.60	TRF	97	YDA 132S4	140
	57	920	25.03	19600	3.10				
	64	820	22.37	19000	3.30				
	71	740	20.14	18400	3.50				
	78	670	18.24	17900	3.70				
	88	595	16.17	17300	4.00				
	30	1750	47.58	15400	0.90	TR	87	YDA 132S4	136
	34	1530	41.74	17000	1.00	TRF	87	YDA 132S4	137
	39	1350	36.84'	17200	1.15				
	44	1200	32.66*	16700	1.30				
	51	1020	27.88	16100	1.45				
51	1020	27.84*	16100	1.50	TR	87	YDA 132S4	136	
61	860	23.40	15500	1.80	TRF	87	YDA 132S4	137	
66	790	21.51	15200	1.90					
75	700	19.10	14700	2.10					
84	625	17.08*	14300	2.20					
93	565	15.35	13900	2.40					
107	490	13.33	13400	2.60					
120	440	11.93	13000	2.80					
144	365	9.90*	12300	3.30					
156	335	9.14*	12200	3.60					
174	300	8.22	11800	3.80					
200	260	7.13	11300	4.10					
76	690	18.80	9240	1.15	TR	77	YDA 132S4	133	
80	655	17.82*	9400	1.20	TRF	77	YDA 132S4	134	
92	575	15.60	9150	1.30					

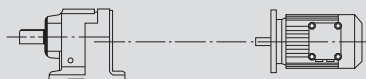
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page	
5.5	102	515	14.05	8950	1.40	TR	77	YDA 132S4	133
	116	455	12.33	8690	1.50				TRF
	131	400	10.88	8440	1.65				
	148	355	9.64	8190	1.80				
	166	315	8.59	8080	2.00				
	185	285	7.74	7860	2.20				
	211	250	6.79	7580	2.30				
	239	220	5.99*	7320	2.50				
	269	195	5.31*	7070	2.60				
	91	580	15.79	6610	0.95	TR	67	YDA 132S4	130
	96	550	14.91	6900	1.00				TRF
	113	465	12.70	6810	1.10				
	124	425	11.54	6690	1.20				
	143	365	10.00	6500	1.30				
	164	320	8.70*	6310	1.40				
	183	285	7.79	6180	1.35				
	194	270	7.36*	6100	1.35				
	228	230	6.27	5860	1.45				
	251	210	5.70	5720	1.50				
	290	181	4.93	5510	1.60				
	333	158	4.29	5310	1.70				
	331	159	8.70*	5300	2.80	TR	67	YDA 132S2	130
	369	142	7.79	5160	2.70				TRF
	391	134	7.36*	5080	2.80				
	460	114	6.27	4860	2.90				
	506	104	5.70	4730	3.00				
	584	90	4.93	4540	3.20				
	671	78	4.29	4350	3.50				
	97	545	14.77*	1730	0.80	TR	57	YDA 132S4	127
	103	510	13.95*	2070	0.85				TRF
	120	435	11.88	2900	0.95				
	132	395	10.79	3270	1.00				
	153	345	9.35	3240	1.10	TR	57	YDA 132S4	127
	179	295	7.97	3220	1.20				TRF
	190	275	7.53	3200	1.25				
	223	235	6.41	3120	1.40				
	246	215	5.82	3080	1.50				
	283	185	5.05	3000	1.65				
	326	161	4.39	2920	1.75				
	308	171	9.35	2930	2.20	TR	57	YDA 132S4	127
	361	145	7.97	2850	2.40				TRF
	383	137	7.53	2820	2.60				
	449	117	6.41	2720	2.90				
	494	106	5.82	2660	3.00				
	571	92	5.05	2560	3.30				
	656	80	4.39	2470	3.50				
	295	178	4.85	1870	0.85	TR	47	YDA 132S4	124
	330	159	4.34	2110	0.90				TRF
373	141	3.83	2080	1.00					
230	230	12.54	1730	1.10	TR	47	YDA 132S2	124	
244	215	11.79	1910	1.15				TRF	47
284	185	10.15	2250	1.25					
318	165	9.07	2220	1.35					
359	145	8.01	2170	1.40					
480	109	6.00	2000	1.45					
511	103	5.64*	1970	1.50					
593	89	4.85	1920	1.70					

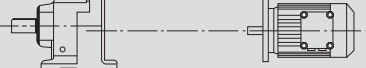
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
7.5	3.1	22900	229.71	120000	0.80	TR	167	YDA 160L8	147
	3.9	18600	186.93*	120000	0.95			TRF	167
	4.7	15200	153.07	120000	1.20				
	5.1	13900	139.98	120000	1.30				
	5.9	12100	121.81*	120000	1.50				
	4.2	17100	229.71	120000	1.05	TR	167	YDA 160M6	147
	5.1	13900	186.93*	120000	1.30			TRF	167
	6.3	11400	153.07	120000	1.60				
	6.9	10400	139.98	120000	1.70				
	7.9	9090	121.81*	120000	2.00				
	8.9	8020	107.49	120000	2.20				
	10	6950	93.19	120000	2.60				
	12	6190	82.91*	120000	2.90				
	13	5500	73.70*	120000	3.30				
	14	5030	67.40	120000	3.60				
	4.4	16200	163.31	32800	0.80	TR	147	YDA 160L8	145
	4.9	14600	146.91	55100	0.90			TRF	147
	6.0	11900	119.85	64700	1.10				
	6.6	10900	109.31	66500	1.20				
	5.9	12200	163.31	64200	1.05	TR	147	YDA 160M6	145
	6.5	11000	145.91	66300	1.20			TRF	147
	8.0	8940	119.86	69200	1.45				
	8.8	8150	109.31	70100	1.50				
	10	7060	94.60*	71300	1.85				
	12	6230	83.47	72000	2.10				
	7.6	9440	188.45	45300	0.85	TR	137	YDA 160M4	143
	8.2	8730	174.40*	50800	0.90			TRF	137
	9.2	7830	156.31	53700	1.00				
	10	7070	141.12*	55200	1.15				
	11	6420	128.18	56400	1.25				
	13	5700	113.72	57500	1.40				
	14	5170	103.20*	58200	1.55				
	16	4440	88.70*	59100	1.80				
	18	4050	80.91*	59500	1.95				
	19	3680	73.49	59800	2.20				
	22	3270	55.20	60100	2.50				
	24	2960	59.17*	50400	2.70				
	28	2550	50.86*	60600	3.10				
	15	4640	92.70	27500	0.95	TR	107	YDA 132M4	141
	18	3940	78.57	31300	1.10			TRF	107
	20	3650	72.89	31300	1.20				
	22	3290	65.60*	30600	1.30				
	24	2980	59.41	30000	1.45				
	27	2640	52.58	29200	1.65				
	30	2390	47.53	28500	1.80				
	35	2020	40.37*	27300	2.10				
	41	1770	35.26	26400	2.40				
48	1480	29.49	25200	2.90					
46	1540	30.77	25500	2.80	TR	107	YDA 132M4	141	
52	1380	27.58	24700	3.10			TRF	107	YDA 132M4
57	1250	24.90*	24100	3.50					
63	1130	22.62	23400	3.80					
24	3000	59.92	19700	1.00	TR	97	YDA 132M4	139	
27	2670	53.21	22200	1.15			TRF	97	YDA 132M4
30	2380	47.58	21800	1.25					
33	2140	42.78	21300	1.40					
39	1860	37.13	20700	1.50					


P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page
7.5	3.1	22900	229.71	120000	0.80	TR 167	YDA 160L8	147
	3.9	18600	186.93*	120000	0.95			TRF 167
	4.7	15200	153.07	120000	1.20			
	5.1	13900	139.98	120000	1.30			
	5.9	12100	121.81*	120000	1.50			
	4.2	17100	229.71	120000	1.05	TR 167	YDA 160M6	147
	5.1	13900	186.93*	120000	1.30			TRF 167
	6.3	11400	153.07	120000	1.60			
	6.9	10400	139.98	120000	1.70			
	7.9	9090	121.81*	120000	2.00			
	8.9	8020	107.49	120000	2.20			
	10	6950	93.19	120000	2.60			
	12	6190	82.91*	120000	2.90			
	13	5500	73.70*	120000	3.30			
	14	5030	67.40	120000	3.60			
	4.4	16200	163.31	32800	0.80	TR 147	YDA 160L8	145
	4.9	14600	146.91	55100	0.90			TRF 147
	6.0	11900	119.85	64700	1.10			
	6.6	10900	109.31	66500	1.20			
	5.9	12200	163.31	64200	1.05	TR 147	YDA 160M6	145
	6.5	11000	145.91	66300	1.20			TRF 147
	8.0	8940	119.86	69200	1.45			
	8.8	8150	109.31	70100	1.50			
	10	7060	94.60*	71300	1.85			
	12	6230	83.47	72000	2.10			
	7.6	9440	188.45	45300	0.85	TR 137	YDA 132M4	143
	8.2	8730	174.40*	50800	0.90			TRF 137
	9.2	7830	156.31	53700	1.00			
	10	7070	141.12*	55200	1.15			
	11	6420	128.18	56400	1.25			
	13	5700	113.72	57500	1.40			
	14	5170	103.20*	58200	1.55			
	16	4440	88.70*	59100	1.80			
	18	4050	80.91*	59500	1.95			
	19	3680	73.49	59800	2.20			
	22	3270	55.20	60100	2.50			
	24	2960	59.17*	50400	2.70			
	28	2550	50.86*	60600	3.10			
	15	4640	92.70	27500	0.95	TR 107	YDA 132M4	141
	18	3940	78.57	31300	1.10			TRF 107
	20	3650	72.89	31300	1.20			
	22	3290	65.60*	30600	1.30			
	24	2980	59.41	30000	1.45			
	27	2640	52.58	29200	1.65			
30	2390	47.53	28500	1.80				
35	2020	40.37*	27300	2.10				
41	1770	35.26	26400	2.40				
48	1480	29.49	25200	2.90				
46	1540	30.77	25500	2.80	TR 107	YDA 132M4	141	
52	1380	27.58	24700	3.10			TRF 107	YDA 132M4
57	1250	24.90*	24100	3.50				
63	1130	22.62	23400	3.80				
24	3000	59.92	19700	1.00	TR 97	YDA 132M4	139	
27	2670	53.21	22200	1.15			TRF 97	YDA 132M4
30	2380	47.58	21800	1.25				
33	2140	42.78	21300	1.40				
39	1860	37.13	20700	1.50				


PERFORMANCE PARAMETER

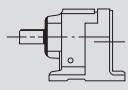
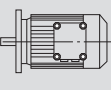
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
7.5	43	1670	33.25	20200	1.75	TR	97	YDA 132M4	139
	52	1380	27.58	19400	1.95	TRF	97	YDA 132M4	140
	45	1610	32.05	20000	1.60	TR	97	YDA 132M4	139
	53	1360	27.19	19300	1.90	TRF	97	YDA 132M4	140
	57	1250	25.03	18900	2.30				
	64	1120	22.37	18400	2.40				
	71	1010	20.14	17900	2.60				
	78	910	18.24	17500	2.70				
	39	1840	36.84*	11500	0.85	TR	87	YDA 132M4	136
	44	1540	32.66*	15700	0.95	TRF	87	YDA 132M4	137
	51	1400	27.88	15200	1.05				
	51	1390	27.84*	15200	1.10	TR	87	YDA 132M4	136
	61	1170	23.40	14700	1.30	TRF	87	YDA 132M4	137
	66	1080	21.51	14500	1.40				
	75	960	19.10	14100	1.50				
	84	860	17.08*	13700	1.65				
	93	770	15.35	12500	1.75				
	107	570	13.33	12900	1.90				
	120	600	11.93	12500	2.10				
	144	495	9.90*	12000	2.40				
	156	460	9.14*	11900	2.60				
	174	410	8.22	11600	2.80				
	200	355	7.13	11100	3.00				
	224	320	6.39	10800	3.20				
	270	265	5.30*	10200	3.40				
	76	940	18.90	5310	0.85	TR	77	YDA 132M4	133
	80	890	17.82*	5720	0.85	TRF	77	YDA 132M4	134
	92	780	15.60	6610	0.95				
	102	705	14.05	7180	1.00				
	116	615	12.33	7750	1.10				
	131	545	10.88	8010	1.20				
	148	485	9.64	7810	1.30				
	166	430	8.59	7620	1.45				
	185	390	7.74	7590	1.55				
	211	340	6.79	7340	1.70				
	239	300	5.99*	7110	1.80				
	269	265	5.31*	6890	1.90				
	113	635	12.70	4240	0.80	TR	67	YDA 132M4	130
	124	580	11.54	4860	0.85	TRF	67	YDA 132M4	131
	143	500	10.00	5620	0.95				
	164	435	8.70*	5930	1.00				
	183	390	7.79	5500	0.95				
	194	370	7.36*	5720	1.00				
	228	315	6.27	5500	1.05				
	251	285	5.70	5480	1.10				
	290	245	4.93	5300	1.15				
	333	215	4.29	5130	1.25				
179	400	7.97	980	0.90	TR	57	YDA 132M4	127	
190	375	7.53	1280	0.95	TRF	57	YDA 132M4	128	
223	320	6.41	2020	1.05					
246	290	5.82	2380	1.10					
283	255	5.05	2760	1.20					
326	220	4.39	2710	1.25					
196	365	14.77*	2580	1.20	TR	57	YDA 132M4	127	
208	345	13.95*	2780	1.25	TRF	57	YDA 132M4	128	
244	295	11.88	2780	1.40					
269	265	10.79	2750	1.45					

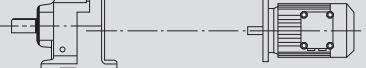
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
7.5	310	230	9.35	2710	1.60	TR	57	YDA 132M2	127
	364	197	7.97	2670	1.80				TRF
	385	186	7.53	2640	1.90				
	452	158	6.41	2570	2.10				
	498	144	5.82	2520	2.20				
	575	125	5.05	2440	2.50				
	660	108	4.39	2370	2.60				
	216	330	6.63*	10100	1.40	TRX	107	YDA 132M4	116
	255	280	5.61	9690	1.60				TRXF
	276	260	5.19	9490	2.70				
	307	235	4.65	9210	3.00				
	340	210	4.20*	8950	3.90				
	247	290	5.79	8080	1.45	TRX	97	YDA 132M4	114
	291	245	4.91	7750	1.60				TRXF
	316	225	4.52	7580	2.60				
	354	205	4.04	7360	2.90				
	393	182	3.64*	7160	3.30				
	434	165	3.30	6960	3.60				
	489	146	2.92	6730	4.10				
	318	225	4.50*	5760	1.30	TRX	87	YDA 132M4	112
	378	189	3.78	5530	1.50				TRXF
	411	174	3.48	5420	2.30				
	463	155	3.09	5260	2.60				
	518	138	2.76*	5110	2.90				
	576	124	2.48	4970	3.30				
	664	108	2.15	4780	3.60				
	741	97	1.93	4640	3.70				
	894	80	1.60*	4400	3.90				
	1030	70	1.39	4230	4.20				
	440	163	3.25*	3820	1.10	TRX	77	YDA 132M4	110
	464	154	3.08*	3890	1.25				TRXF
	530	135	2.70	3820	1.60				
	589	122	2.43	3730	1.75				
	671	107	2.13	3620	1.85				
	761	94	1.88*	3510	2.00				
	858	84	1.67	3400	2.10				
	1005	71	1.42	3260	2.20				
	563	127	2.54	1500	0.95	TRX	67	YDA 132M4	108
	595	120	2.40*	1610	1.00				TRXF
	700	102	2.04	1810	1.30				
	770	93	1.86	1930	1.35				
	889	81	1.61	2060	1.40				
	1020	70	1.40*	2080	1.50				
	3.8	21400	376	120000	0.85	TR	167 / TRF97	YDA 132ML4	149
	4.3	19000	335	120000	0.95				TRF
	4.8	17100	303	120000	1.05				
	5.2	15700	279	120000	1.15				
	5.1	15900	280	37800	0.80	TR	147 / TRF87	YDA 132ML4	149
	5.8	14000	247	60400	0.95				TRF
	6.7	12100	214	64300	1.05				
	7.5	10700	189	66700	1.20				
	9.1	9020	159	69100	1.45				
	8.8	9960	163.31	67800	1.30	TR	147	YDA 132ML4	145
	9.8	8960	146.91	69200	1.45				TRF
	12	7310	119.86	71000	1.80				

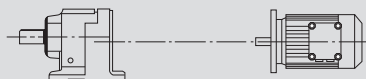
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
9.2	13	6670	109.31	71600	1.95	TR	147	YDA 132ML4	145
	15	5770	94.60*	72400	2.30				TRF
	17	5090	83.47	72900	2.60				
	20	4400	72.09	73300	3.00				
	22	4090	66.99	73500	3.20				
	9.2	9540	156.31	43400	0.85	TR	137	YDA 132ML4	143
	10	8610	141.12*	51400	0.95				TRF
	11	7820	128.18	53800	1.00				
	13	6940	113.72	55500	1.15				
	14	6300	103.20*	56600	1.25	TR	137	YDA 132ML4	143
	16	5410	88.70*	57900	1.50				TRF
	18	4940	80.91*	58500	1.60				
	20	4480	73.49	59000	1.80				
	22	3980	65.20	59500	2.00				
	24	3610	59.17*	59900	2.20				
	28	3100	50.86*	60300	2.60				
	32	2710	44.39	60500	3.00				
	18	4790	78.57	23300	0.90	TR	107	YDA 132ML4	141
	20	4450	72.88	28600	0.95				TRF
	22	4000	65.60*	29400	1.05				
	24	3620	59.41	28800	1.20				
	27	3210	52.68	28100	1.35 *				
	30	2910	47.63	27500	1.50				
	36	2460	40.37*	26500	1.75				
	41	2150	35.26	25700	2.00				
	49	1800	29.49	24600	2.40				
	47	1880	30.77	24900	2.30	TR	107	YDA 132ML4	141
	52	1680	27.58	24200	2.60				TRF
	58	1520	24.90*	23500	2.80				
	64	1380	22.62	23000	3.10				
	72	1220	20.07	22200	3.50				
	27	3250	53.21	3280	0.90	TR	97	YDA 132ML4	139
	30	2900	47.58	20600	1.05				TRF
	34	2610	42.78	20300	1.15				
	39	2270	37.13	19800	1.30				
	43	2030	33.25	19400	1.40				
	52	1680	27.58	18700	1.60				
	58	1530	25.03	18300	1.85				
	64	1370	22.37	17900	2.00				
	71	1230	20.14	17400	2.10				
	79	1110	18.24	17000	2.30				
	89	990	16.17	16500	2.40				
	98	890	14.62	16100	2.60				
	116	755	12.39	15400	2.90				
	67	1310	21.51	13900	1.15	TR	87	YDA 132ML4	136
	75	1170	19.10	13600	1.25				TRF
	84	1040	17.08*	13200	1.35				
94	940	15.35	13000	1.45					
108	810	13.33	12600	1.55					
121	730	11.93	12200	1.70					
145	605	9.90*	11700	1.95					
158	560	9.14*	11700	2.20					
175	500	8.22	11400	2.30					
202	435	7.13	10900	2.50					
225	390	6.39	10600	2.60					

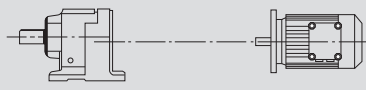
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
9.2	102	860	14.05	4740	0.85	TR	77	YDA 132ML4	133
	117	750	12.33	5610	0.90				TRF
	132	665	10.88	6280	1.00				
	149	590	9.64	6800	1.05				
	186	470	7.74	6300	1.30	TR	77	YDA 132ML4	133
	212	415	6.79	6720	1.40				TRF
	240	365	5.99*	6920	1.50				
	271	325	5.31*	6720	1.55				
	277	315	5.19	9240	2.20	TRX	107	YDA 132ML4	116
	310	285	4.65	8990	2.50				TRXF
343	255	4.20*	8760	3.20					
377	235	3.81	8540	3.60					
425	205	3.38	8270	4.00					
318	275	4.52	7370	2.20	TRX	97	YDA 132ML4	114	
356	245	4.04	7170	2.40				TRXF	97
396	220	3.64*	6980	2.70					
437	200	3.30	6800	3.00					
493	178	2.92	6590	3.30					
545	161	2.54	6410	3.70					
643	137	2.24*	6120	4.40					
736	119	1.96	5890	4.80					
880	100	1.64	5590	5.10					
1015	86	1.42	5360	5.30					
414	210	3.48	5220	1.90	TRX	87	YDA 132ML4	112	
466	188	3.09	5080	2.20				TRXF	87
522	168	2.76*	4950	2.40					
580	151	2.48	4820	2.70					
669	131	2.15	4550	2.90					
747	118	1.93	4520	3.00					
900	98	1.60*	4300	3.20					
1035	85	1.39	4140	3.40					
593	148	2.43	3010	1.45	TRX	77	YDA 132ML4	110	
676	130	2.13	3150	1.55				TRXF	77
766	115	1.88*	3260	1.65					
864	102	1.67	3280	1.70					
1010	87	1.42	3160	1.80					
4.9	19600	295	120000	0.90	TR	167 / TRF107	YDT 160M4	149	
5.3	18200	270	120000	1.00				TRF	167 / TRF107
6.3	15400	229	120000	1.15					
7.2	13400	200	120000	1.35					
8.5	11300	169	120000	1.60					
5	20000	291	120000	0.90					
4.3	22800	335	120000	0.80	TR	167 / TRF97	YDT 160M4	149	
4.8	20500	303	120000	0.90				TRF	167 / TRF97
5.2	18900	279	120000	0.95					
5.8	16800	247	22800	0.75	TR	147 / TRF87	YDT 160M4	149	
6.7	14500	214	55000	0.90				TRF	147 / TRF87
7.6	12900	189	53000	1.00					
9.1	10800	159	55600	1.20					
5.1	20500	186.93*	120000	0.90	TR	167	YDT 160L6	147	
6.3	16700	153.07	120000	1.05				TRF	167
6.9	15300	139.98	120000	1.20					
7.9	13300	121.81*	120000	1.35					
6.3	16800	229.71	120000	1.05	TR	167	YDT 160M4	147	
7.7	13600	186.93*	120000	1.30				TRF	167
9.4	11200	153.07	120000	1.60					
10	10200	139.98	120000	1.75					

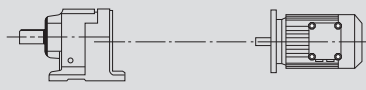
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
11.0	12	8890	121.81*	120000	2.00	TR	167	YDT 160M4	147
	13	7840	107.49	120000	2.30				TRF
	15	6800	93.19	120000	2.70				
	17	6050	82.91*	120000	3.00				
	6.5	16100	146.91	35400	0.80	TR	147	YDT 160L6	145
	8.0	13100	119.86	62400	1.00				TRF
	8.8	12000	109.31	64600	1.10				
	10	10400	94.60*	67300	1.25				
	12	9130	83.47	69000	1.40				
	8.8	11900	163.31	54700	1.10	TR	147	YDT 160M4	145
	9.8	10700	146.91	56700	1.20				TRF
	12	8740	119.86	59400	1.50				
	13	7970	109.31	70300	1.65				
	15	6900	94.50*	71400	1.90				
	17	6090	83.47	72100	2.10				
	20	5260	72.09	72800	2.50				
	22	4890	66.99	73000	2.70				
	24	4460	51.09	73300	2.90				
	27	3860	52.87	73500	3.40				
	10	10300	141.12*	23300	0.80	TR	137	YDT 160M4	143
	11	9350	128.18	45900	0.85				TRF
	13	8300	113.72	52700	0.95				
	14	7530	103.20*	54400	1.05				
	16	6470	88.70*	56300	1.25				
	18	5900	80.91*	57200	1.35				
	20	5360	73.49	57900	1.50				
	22	4760	55.20	58700	1.70				
	24	4320	59.17*	59200	1.85				
	28	3710	50.85*	59800	2.20				
	32	3240	44.39	60200	2.50				
	38	2750	37.55	60500	2.90				
	44	2400	32.91	60700	3.30				
	22	4790	65.50*	23700	0.90	TR	107	YDT 160M4	141
	24	4330	59.41	27600	1.00				TRF
	27	3840	52.68	27100	1.10				
	30	3470	47.63	26600	1.25				
	36	2940	40.37*	25700	1.45				
	41	2570	35.26	25000	1.65				
	49	2150	29.49	24000	2.00				
	47	2240	30.77	24200	1.90	TR	107	YDT 160M4	141
52	2010	27.58	23600	2.10	TRF				107
58	1820	24.90*	23100	2.40					
64	1650	22.62	22500	2.60					
72	1460	20.07	21800	2.90					
79	1330	18.21	21300	3.20					
34	3120	42.78	14500	0.95	TR	97	YDT 160M4	139	
39	2710	37.13	18900	1.10				TRF	97
43	2430	33.25	18600	1.20					
52	2010	27.58	18000	1.35					
58	1830	25.03	17700	1.55	TR	97	YDT 160M4	139	
64	1630	22.37	17300	1.55				TRF	97
71	1470	20.14	16900	1.80					
79	1330	18.24	16600	1.90					
89	1180	15.17	16100	2.00					
98	1070	14.62	15700	2.20					
116	900	12.39	15100	2.40					
133	790	10.83	14600	2.70					

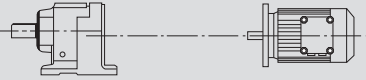
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page	
11.0	155	675	9.29	14300	3.00	TR	97	YDT 160M4	139
	172	610	8.39	13900	3.30	TRF	97	YDT 160M4	140
	202	520	7.12	13200	3.90				
	232	455	6.21	12700	4.20				
	67	1570	21.51	13200	0.95	TR	87	YDT 160M4	136
	75	1390	19.10	13000	1.05	TRF	87	YDT 160M4	137
	84	1250	17.08*	12800	1.10				
	94	1120	15.35	12500	1.20	TR	87	YDT 160M4	136
	108	970	13.33	12200	1.30	TRF	87	YDT 160M4	137
	121	870	11.93	11900	1.40				
	145	720	9.90*	11400	1.65				
	158	665	9.14*	11500	1.80				
	175	600	8.22	11200	1.95				
	202	520	7.13	10800	2.10				
	225	465	6.39	10400	2.20				
	272	385	5.30*	9910	2.40				
	132	795	10.88	4250	0.85	TR	77	YDT 160M4	133
	149	705	9.64	5000	0.90	TRF	77	YDT 160M4	134
	186	565	7.74	4630	1.10				
	212	495	6.79	5250	1.15				
	240	435	5.99*	5720	1.25				
	271	390	5.31*	6090	1.30				
	277	380	5.19	9000	1.85	TRX	107	YDT 160M4	116
	310	340	4.65	8770	2.10	TRXF	107	YDT 160M4	117
	343	305	4.20*	8560	2.70				
	377	280	3.81	8360	3.00				
	425	245	3.38	8100	3.40				
	469	225	3.07	7900	3.70				
	545	193	2.64*	7580	4.30				
	318	330	4.52	7150	1.80	TRX	97	YDT 160M4	114
	356	295	4.04	6970	2.00	TRXF	97	YDT 160M4	115
	396	265	3.64*	6800	2.20				
	437	240	3.30	6640	2.50				
	493	215	2.92	6440	2.80				
	545	193	2.64	6280	3.10				
	643	163	2.24*	6000	3.60				
	736	143	1.96	5790	4.00				
	880	119	1.64	5500	4.20				
	1015	103	1.42	5280	4.40				
	414	255	3.48	5030	1.60	TRX	87	YDT 160M4	112
466	225	3.09	4910	1.80	TRXF	87	YDT 160M4	113	
522	200	2.76*	4790	2.00					
580	181	2.48	4680	2.20					
669	157	2.15	4530	2.50	TRX	87	YDT 160M4	112	
747	141	1.93	4400	2.50	TRXF	87	YDT 160M4	113	
900	117	1.60*	4200	2.70					
1035	102	1.39	4050	2.90					
593	177	2.43	1890	1.20	TRX	77	YDT 160M4	110	
676	155	2.13	2140	1.30	TRXF	77	YDT 160M4	111	
766	137	1.88*	2330	1.35					
864	122	1.67	2460	1.40					
1010	104	1.42	2580	1.50					
15.0	6.4	20800	229.00	120000	0.85	TR	167 / TRF107	YDT 160L4	149
	7.3	18200	200.00	120000	1.00	TRF	167 / TRF107	YDT 160L4	149
	8.6	15300	169.00	120000	1.20				
	6.4	20900	227.00	120000	0.85	TR	167 / TRF107	YDT 160L4	149
	7.4	18200	198.00	120000	1.00	TRF	167 / TRF107	YDT 160L4	149

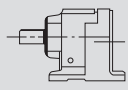
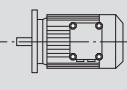
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
15.0	6.3	22600	153.07	120000	0.80	TR	167	YDT 180L6	147
	6.9	20700	139.98	120000	0.85				TRF
	8.0	18000	121.81*	120000	1.00				
	9.0	15900	107.49	120000	1.15				
	6.4	22500	229.71	120000	0.80	TR	167	YDT 160L6	147
	7.8	18300	186.93*	120000	1.00				TRF
	9.5	15000	153.07	120000	1.20	TR	167	YDT 160L6	147
	10	13700	139.98	120000	1.30				TRF
	12	12000	121.81*	120000	1.50				
	14	10500	107.49	120000	1.70				
	16	9140	93.19	120000	1.95				
	18	8130	82.91*	120000	2.20				
	20	7230	73.70*	120000	2.50				
	22	6610	67.40	120000	2.70				
	8.9	16100	109.31	34400	0.80	TR	147	YDT 180L6	145
	10	14000	94.60*	60600	0.95				TRF
	12	12300	83.47	64000	1.05				
	13	10600	72.09	66800	1.20				
	14	9890	66.99	67900	1.30				
	8.9	16000	163.31	36200	0.80	TR	147	YDT 160L4	145
	9.9	14400	146.91	57400	0.90				TRF
	12	11800	119.86	65000	1.10				
	13	10700	109.31	66700	1.20				
	15	9280	94.60*	68800	1.40	TR	147	YDT 160L4	145
	17	8190	83.47	70100	1.60				TRF
	20	7070	72.09	71300	1.85				
	22	6570	66.99	71700	2.00				
	24	5990	61.09	72200	2.20				
	28	5190	52.87	72800	2.50				
	31	4580	46.65	73200	2.80				
	14	10100	103.20*	30700	0.80	TR	137	YDT 160L4	143
	16	8700	88.70*	51000	0.90				TRF
	18	7940	80.91*	53500	1.00				
	20	7210	73.49	55000	1.10				
	22	6400	65.20	56400	1.25	TR	137	YDT 160L4	143
	25	5800	59.17*	57300	1.40				TRF
	29	4990	50.86*	58400	1.60				
	33	4360	44.39	59100	1.85				
	39	3690	37.65	59800	2.20				
	44	3230	32.91	60200	2.50				
	52	2730	27.83	60500	2.80				
	31	4670	47.63	24500	0.90	TR	107	YDT 160L4	141
	36	3960	40.37*	23900	1.10				TRF
	41	3460	35.26	23400	1.25				
	50	2890	29.49	22600	1.50				
	47	3020	30.77	22800	1.40	TR	107	YDT 160L4	141
	53	2710	27.58	22400	1.60				TRF
	59	2440	24.90*	21900	1.75				
65	2220	22.62	21400	1.95					
73	1970	20.07	20900	2.20					
80	1790	18.21	20400	2.40					
93	1540	15.65	19700	2.80					
107	1340	13.66	19000	3.20					
53	2710	27.58	16500	1.00	TR	97	YDT 160L4	141	
58	2460	25.03	16300	1.15				TRF	97
65	2200	22.37	16100	1.25					
72	1980	20.14	15800	1.30					

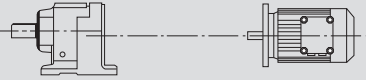
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
15.0	80	1790	18.24	15600	1.40	TR	97	YDT 160L4	139
	90	1590	16.17	15200	1.50	TRF	97	YDT 160L4	140
	100	1430	14.62	14900	1.60				
	118	1220	12.39	14400	1.80				
	135	1060	10.83	14000	1.95				
	157	910	9.29	13800	2.20				
	174	820	8.39	13400	2.50				
	205	700	7.12	12800	2.90				
	235	610	6.21	12400	3.10				
	85	1680	17.08*	11600	0.85	TR	87	YDT 160L4	136
	95	1510	15.35	11500	0.90	TRF	87	YDT 160L4	137
	110	1310	13.33	11300	1.00				
	122	1170	11.93	11100	1.05				
	147	970	9.90*	10700	1.20	TR	87	YDT 160L4	136
	160	900	9.14*	11000	1.35	TRF	87	YDT 160L4	137
	178	810	8.22	10700	1.45				
	205	700	7.13	10300	1.55				
	229	625	6.39	10100	1.65				
	275	520	5.30*	9600	1.75				
	281	510	5.19	8440	1.35	TRX	107	YDT 160L4	116
	314	455	4.65	8260	1.50	TRXF	107	YDT 160L4	117
	348	410	4.20*	8100	2.00				
	383	375	3.81	7930	2.20				
	431	330	3.38	7720	2.50	TRX	107	YDT 160L4	116
	475	300	3.07	7540	2.80	TRXF	107	YDT 160L4	117
	553	260	2.64*	7260	3.20				
	634	225	2.30	7010	3.70				
	747	192	1.95	6710	4.00				
	855	168	1.71	6470	4.20				
	1010	142	1.44	6170	4.60				
	323	445	4.52	6660	1.35	TRX	97	YDT 160L4	114
	361	395	4.04	6530	1.50	TRXF	97	YDT 160L4	115
	401	355	3.64*	6400	1.65				
	443	325	3.30	6270	1.85				
	499	285	2.92	6110	2.10				
	552	260	2.64	5970	2.30				
	652	220	2.24*	5730	2.70				
	746	192	1.96	5550	3.00				
	892	161	1.64	5290	3.20				
	1030	139	1.42	5090	3.30				
420	340	3.48	4260	1.20	TRX	87	YDT 160L4	112	
473	305	3.09	4510	1.35	TRXF	87	YDT 160L4	113	
529	270	2.76*	4430	1.50					
588	245	2.48	4350	1.65					
578	210	2.15	4230	1.80					
757	189	1.93	4130	1.90	TRX	87	YDT 160L4	112	
913	157	1.60*	3960	2.00	TRXF	87	YDT 160L4	113	
1050	137	1.39	3840	2.10					
18.5	7.8	22500	186.93*	120000	0.80	TR	167	YDT 180M4	147
	9.6	18500	153.07	120000	1.00	TRF	167	YDT 180M4	148
	10	16900	139.98	120000	1.05				
	12	14700	121.81*	120000	1.25				
	14	13000	107.49	120000	1.40	TR	167	YDT 180M4	147
	16	11200	93.19	120000	1.60	TRF	167	YDT 180M4	148
	18	10000	82.91*	120000	1.80				
	20	8890	73.70*	120000	2.00				
	22	8130	67.40	120000	2.20				
	25	7070	58.65	120000	2.60				

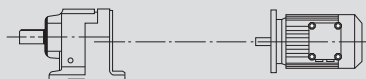
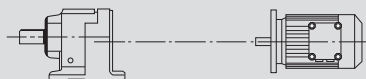
P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page																								
18.5	12	14500	119.86	56900	0.90	TR	147	YDT 180M4	145																								
	13	13200	109.31	52300	1.00				TRF	147	YDT 180M4	146																					
	15	11400	94.60*	65600	1.15	TR	147	YDT 180M4	145																								
	18	10100	83.47	67700	1.30				TRF	147	YDT 180M4	146																					
	20	8690	72.09	69500	1.50				TR	137	YDT 180M4	143																					
	22	8080	66.99	70200	1.60							TRF	137	YDT 180M4	144																		
	24	7370	61.09	71000	1.75							TR	137	YDT 180M4	143																		
	28	6380	52.87	71900	2.00										TRF	137	YDT 180M4	144															
	31	5630	46.65	72500	2.30										TR	137	YDT 180M4	143															
	36	4860	40.29	73000	2.70													TRF	137	YDT 180M4	144												
	18	9750	80.91*	39000	0.80	TR	137	YDT 180M4	143																								
	20	8860	73.49	50200	0.90				TRF	137	YDT 180M4	144																					
	22	7860	65.20	53700	1.00				TR	137	YDT 180M4	143																					
	25	7140	59.17*	55100	1.10	TRF	137	YDT 180M4				144																					
	29	6130	50.86*	56800	1.30	TR	137	YDT 180M4				143																					
	33	5350	44.39	58000	1.50							TRF	137	YDT 180M4	144																		
	39	4540	37.65	58900	1.75							TR	137	YDT 180M4	143																		
	45	3970	32.91	59500	2.00	TRF	137	YDT 180M4	144																								
	53	3360	27.83	60100	2.30	TR	137	YDT 180M4	143																								
	50	3570	29.57*	59900	2.20				TRF	137	YDT 180M4				144																		
	61	2910	24.12	60400	2.80				TR	137	YDT 180M4	143																					
	67	2650	22.00*	50600	3.00							TRF	137	YDT 180M4	144																		
	77	2300	19.04*	60800	3.50							TR	137	YDT 180M4	143																		
	87	2030	16.80*	60900	4.00	TRF	137	YDT 180M4	144																								
	36	4870	40.37*	20200	0.90	TR	107	YDT 180M4	141																								
	42	4250	35.26	22000	1.00				TRF	107	YDT 180M4	142																					
	50	3560	29.49	21500	1.20	TR	107	YDT 180M4	141																								
	59	3000	24.90*	20900	1.45				TRF	107	YDT 180M4	142																					
	65	2730	22.62	20600	1.60				TR	97	YDT 180M4	139																					
	73	2420	20.07	20100	1.80							TRF	97	YDT 180M4	140																		
	80	2200	18.21	19700	1.95							TR	97	YDT 180M4	139																		
	94	1890	15.65	19100	2.30										TRF	97	YDT 180M4	140															
	107	1650	13.66	18500	2.60										TR	97	YDT 180M4	139															
	126	1400	11.59	17800	3.10													TRF	97	YDT 180M4	140												
	145	1220	10.13	17200	3.50													TR	97	YDT 180M4	139												
	186	950	7.86	16300	3.10																TRF	97	YDT 180M4	140									
	220	800	6.66	15600	3.70																TR	97	YDT 180M4	139									
	73	2430	20.14	14900	1.05																			TRF	97	YDT 180M4	140						
	80	2200	18.24	14700	1.15																			TR	97	YDT 180M4	139						
	91	1950	16.17	14500	1.25																						TRF	97	YDT 180M4	140			
	100	1760	14.62	14200	1.30																						TR	97	YDT 180M4	139			
	118	1490	12.39	13800	1.45																									TRF	97	YDT 180M4	140
	135	1310	10.83	13500	1.50																									TR	97	YDT 180M4	139
	158	1120	9.29	13400	1.80	TRF	97	YDT 180M4	140																								
	175	1010	8.39	13100	2.00	TR	87	YDT 180M4	136																								
	206	860	7.12	12600	2.30				TRF	87	YDT 180M4	137																					
	236	750	6.21	12100	2.50				TR	87	YDT 180M4	136																					
	282	625	5.20	11600	2.80							TRF	87	YDT 180M4	137																		
	326	545	4.50*	11100	3.00							TR	87	YDT 180M4	136																		
	110	1610	13.33	10600	0.80										TRF	87	YDT 180M4	137															
123	1440	11.93	10400	0.85	TR										87	YDT 180M4	136																
148	1190	9.90*	10200	1.00													TRF	87	YDT 180M4	137													
160	1100	9.14*	10600	1.10													TR	87	YDT 180M4	136													
178	990	8.22	10300	1.15																TRF	87	YDT 180M4	137										
205	860	7.13	10000	1.25	TR	87	YDT 180M4	136																									
229	770	6.39	9770	1.30				TRF	87	YDT 180M4	137																						
276	640	5.30*	9350	1.40				TR	87	YDT 180M4	136																						
											TRF	87	YDT 180M4	137																			

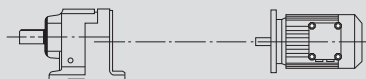
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18.5	349	505	4.20*	7710	1.65	TRX 107	YDT 180M4 116
	384	460	3.81	7580	1.80	TRXF 107	YDT 180M4 117
	433	410	3.36	7400	2.00		
	477	370	3.07	7250	2.20		
	555	320	2.64*	7010	2.60	TRX 107	YDT 180M4 116
	636	280	2.30	6780	3.00	TRXF 107	YDT 180M4 117
	750	235	1.95	6510	3.30		
	858	205	1.71	6290	3.40		
	1015	174	1.44	6020	3.70		
	402	440	3.64*	6060	1.35	TRX 97	YDT 180M4 114
	444	400	3.30	5960	1.50	TRXF 97	YDT 180M4 115
	501	355	2.92	5830	1.70		
	554	320	2.64	5710	1.85		
	654	270	2.24*	5510	2.20		
	749	235	1.96	5350	2.40		
	895	197	1.64	5120	2.60		
	1035	171	1.42	4940	2.70		
	531	335	2.76*	3040	1.20	TRX 87	YDT 180M4 112
	590	300	2.48	3340	1.35	TRXF 87	YDT 180M4 113
	680	260	2.15	3630	1.50		
760	235	1.93	3820	1.55			
916	193	1.60*	3770	1.65			
1055	168	1.39	3670	1.75			
22.0	9.6	22000	153.07	120000	0.80	TR 167	YDT 180L4 147
	10	20100	139.98	120000	0.90	TRF 167	YDT 180L4 148
	12	17500	121.81*	120000	1.05		
	14	15400	107.49	120000	1.15	TR 167	YDT 180L4 147
	15	13400	93.19	120000	1.35	TRF 167	YDT 180L4 148
	18	11900	82.91'	120000	1.50		
	20	10600	73.70*	120000	1.70		
	22	9670	67.40	120000	1.85		
	25	8410	58.65	120000	2.10		
	28	7420	51.76	120000	2.40		
	33	6430	44.87	120000	2.80		
	13	15700	109.31	41300	0.85	TR 147	YDT 180L4 145
	15	13600	94.60*	61500	0.95	TRF 147	YDT 180L4 146
	18	12000	83.47	64600	1.10		
	20	10300	72.09	67300	1.25		
	22	9610	66.99	68300	1.35	TR 147	YDT 180L4 145
	24	8760	61.09	69400	1.50	TRF 147	YDT 180L4 146
	28	7580	52.87	70800	1.70		
	31	6690	46.65	71500	1.95		
	35	5780	40.29	72400	2.30		
	41	5110	35.64	72900	2.50		
	49	4300	29.95	73400	3.00		
	22	9350	65.20	46900	0.85	TR 137	YDT 180L4 143
	25	8480	59.17*	51900	0.95	TRF 137	YDT 180L4 144
	29	7290	50.86*	54800	1.10		
	33	6370	44.39	56500	1.25		
	39	5400	37.65	57900	1.50		
45	4720	32.91	58700	1.70			
53	3990	27.83	59500	1.90			
50	4240	29.57*	59300	1.85	TR 137	YDT 180L4 143	
61	3460	24.12	60000	2.30	TRF 137	YDT 180L4 144	
67	3150	22.00*	60200	2.50			
77	2730	19.04*	60500	2.90			
87	2410	16.80*	60700	3.30			

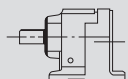
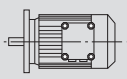
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22.0	101	2080	14.51	60900	3.90	TR	137	YDT 180L4	143	
	114	1840	12.83	61000	4.40				TRF	137
	42	5060	35.26	7280	0.85	TR	107	YDT 180L4	141	
	50	4230	29.49	20400	1.00				TRF	107
	59	3570	24.90*	20000	1.20					
	65	3240	22.62	19700	1.35					
	73	2880	20.07	19300	1.50					
	80	2610	18.21	19000	1.65					
	94	2240	15.65	18500	1.90					
	107	1960	13.66	18000	2.20					
	126	1660	11.59	17300	2.60					
	145	1450	10.13	16800	3.00					
	171	1230	8.56	16100	3.50					
	186	1130	7.86	16100	2.60					
	220	960	6.66	15400	3.10					
	252	840	5.82	14800	3.60					
	73	2890	20.14	14000	0.90	TR	97	YDT 180L4	139	
	80	2620	18.24	13900	0.95				TRF	97
	91	2320	16.17	13700	1.05					
	100	2100	14.62	13600	1.10					
	118	1780	12.39	13200	1.25					
	135	1550	10.83	13000	1.35					
	158	1330	9.29	13100	1.50					
	175	1200	8.39	12800	1.70					
	206	1020	7.12	12300	1.95					
	236	890	6.21	11900	2.10					
	282	745	5.20	11400	2.40					
	326	645	4.50*	10900	2.50					
	148	1420	9.90*	9640	0.85	TR	87	YDT 180L4	136	
	160	1310	9.14*	10100	0.90				TRF	87
	178	1180	8.22	9960	1.00					
	205	1020	7.13	9700	1.05					
	229	920	6.39	9490	1.10					
	276	760	5.30*	9110	1.20					
	349	600	4.20*	7330	1.40	TRX	107	YDT 180L4	116	
	384	545	3.81	7230	1.50				TRXF	107
	433	485	3.38	7090	1.70					
	477	440	3.07	6960	1.90					
	555	380	2.64*	6760	2.20					
	636	330	2.30	6560	2.50					
	750	280	1.95	6320	2.70					
	858	245	1.71	6120	2.90					
	1015	205	1.44	5870	3.10					
	402	520	3.64*	5720	1.15	TRX	97	YDT 180L4	114	
	444	475	3.30	5650	1.25				TRXF	97
	501	420	2.92	5560	1.40					
	554	380	2.64	5460	1.55					
	654	320	2.24*	5300	1.85					
	749	280	1.96	5160	2.00					
	895	235	1.64	4960	2.20					
	1035	205	1.42	4790	2.20					
	531	395	2.76*	1270	1.00	TRX	87	YDT 180L4	112	
	590	355	2.48	1710	1.15				TRXF	87
	680	310	2.15	2160	1.25					
	760	275	1.93	2450	1.30					
	916	230	1.60*	2750	1.35					
	1055	200	1.39	3030	1.45					

P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s			Page		
30	14	20900	107.49	120000	0.85	TR 167	YDT 200L4	147		
	16	18200	93.19	120000	1.00			TRF 167	YDT 200L4	148
	18	16200	82.91*	120000	1.10					
	20	14400	73.70*	120000	1.25					
	22	13100	67.40	120000	1.35					
	25	11400	58.65	120000	1.55					
	28	10100	51.76	120000	1.80					
	33	8740	44.87	120000	2.10					
	37	7780	39.92	120000	2.30					
	43	6710	34.41	120000	2.70					
	53	5450	27.95	120000	3.30					
	62	4620	23.71	120000	3.90					
	18	16300	83.47	32400	0.80			TR 147	YDT 200L4	145
	20	14000	72.09	60400	0.95			TRF 147	YDT 200L4	146
	22	13100	66.99	62500	1.00					
	24	11900	61.09	64700	1.10					
	28	10300	52.87	67300	1.25					
	32	9090	46.65	69000	1.45					
	35	7850	40.29	70500	1.65					
	41	6950	35.64	71400	1.85					
	49	5840	29.95	72300	2.20					
	61	4710	24.19	73100	2.50					
	72	3980	20.44	73600	3.00					
	82	3510	18.04	73800	3.00					
	94	3050	15.64	74000	4.30					
	29	9910	50.86*	35800	0.80			TR 137	YDT 200L4	143
	33	8650	44.39	51200	0.90			TRF 137	YDT 200L4	144
	39	7340	37.65	54700	1.10					
	45	6410	32.91	56400	1.25					
	53	5420	27.83	57900	1.40					
	61	4700	24.12	58800	1.70					
	67	4290	22.00*	59200	1.85					
	77	3710	19.04*	59800	2.20					
	88	3270	16.80*	60100	2.40					
	101	2830	14.51	59500	2.80			TR 137	YDT 200L4	143
	115	2500	12.83	58400	3.20			TRF 137	YDT 200L4	144
	136	2100	10.79	56600	3.80					
	194	1480	7.59	53300	3.50					
	230	1240	6.38	51300	4.10					
	73	3910	20.07	17600	1.10			TR 107	YDT 200L4	141
	81	3550	18.21	17400	1.20			TRF 107	YDT 200L4	142
	94	3050	15.65	17100	1.40					
	108	2660	13.55	16800	1.50					
	127	2260	11.59	16300	1.90					
	145	1970	10.13	15900	2.20					
	172	1670	8.56	15400	2.60					
	187	1530	7.85	15500	1.95					
	221	1300	6.66	14900	2.30					
	252	1140	5.82	14400	2.60					
	299	960	4.92	13700	3.00					
	101	2850	14.62	12000	0.80			TR 97	YDT 200L4	139
	119	2420	12.39	11900	0.90			TRF 97	YDT 200L4	140
	136	2110	10.83	11800	1.00					
	158	1810	9.29	12300	1.10					
	175	1640	8.39	12100	1.25					
	207	1390	7.12	11700	1.45					
	237	1210	6.21	11400	1.55					

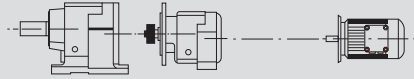
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30	283	1010	5.20	10900	1.75	TR 97	YDT 200L4		139
	327	880	4.50*	10500	1.85				TRF 97
	434	660	3.38	6370	1.25	TRX 107	YDT 200L4		116
	479	600	3.07	6310	1.40				TRXF 107
	557	515	2.64*	6180	1.60				
	638	450	2.30	6050	1.85				
	752	380	1.95	5870	2.00				
	860	335	1.71	5720	2.10				
	1020	280	1.44	5520	2.30				
	503	570	2.92	3120	1.05	TRX 97	YDT 200L4		114
	556	515	2.64	3560	1.15				TRXF 97
	656	435	2.24*	4050	1.35				
	751	380	1.96	4450	1.50				
	898	320	1.64	4580	1.60				
1040	275	1.42	4450	1.65					
37	16	22400	93.19	120000	0.80	TR 167	YDT 225S4		147
	18	19900	82.91*	120000	0.90				TRF 167
	20	17700	73.70*	120000	1.00				
	22	16200	67.40	120000	1.10				
	25	14100	58.65	120000	1.30				
	28	12400	51.76	120000	1.45				
	33	10800	44.87	120000	1.65				
	37	9500	39.92	120000	1.90				
	43	8270	34.41	120000	2.20				
	53	6720	27.96	120000	2.70				
	48	7380	30.71	120000	1.35	TR 167	YDT 225S4		147
	60	5900	24.57	120000	2.40				TRF 167
	67	5250	21.85	120000	2.50				
	77	4580	19.03	120000	3.50				
	87	4080	16.98	120000	3.70				
	22	16100	66.99	35000	0.80	TR 147	YDT 225S4		145
	24	14700	61.09	54200	0.90				TRF 147
	28	12700	52.87	63200	1.00				
	32	11200	46.65	65900	1.15	TR 147	YDT 225S4		145
	36	9680	40.29	68200	1.35				TRF 147
	41	8570	35.64	69700	1.50				
	49	7200	29.95	71100	1.80				
	61	5810	24.19	72400	2.10				
	72	4910	20.44	73000	2.40	TR 147	YDT 225S4		145
	82	4340	18.04	73400	2.40				TRF 147
	94	3750	15.64	73700	3.50				
	106	3340	13.91	73900	3.80				
	39	9050	37.65	49400	0.90	TR 137	YDT 225S4		143
	45	7910	32.91	53600	1.00				TRF 137
	53	6690	27.83	55900	1.15				
	61	5800	24.12	57300	1.40	TR 137	YDT 225S4		143
	67	5290	22.00*	58000	1.50				TRF 137
77	4580	19.04*	57800	1.75					
88	4040	16.80*	57300	2.00					
101	3490	14.51	56600	2.30	TR 137	YDT 225S4		143	
115	3080	12.83	55800	2.60				TRF 137	YDT 225S4
136	2590	10.79	54400	3.10					
169	2090	8.71	52600	3.70					
194	1820	7.59	51900	2.80					
230	1530	6.38	50100	3.30					
285	1240	5.15	47800	3.70					

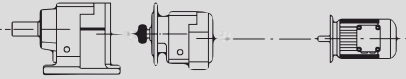
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37	73	4820	20.07	16100	0.90		TR 107	YDT 225S4	141
	81	4380	18.21	16100	1.00		TRF 107	YDT 225S4	142
	94	3760	15.65	15900	1.15				
	108	3280	13.66	15700	1.30				
	127	2790	11.59	15400	1.55				
	145	2430	10.13	15100	1.75				
	172	2060	8.56	14700	2.10				
	187	1890	7.86	15000	1.55				
	221	1600	6.66	14400	1.85				
	252	1400	5.82	14000	2.10				
	299	1180	4.92	13400	2.50				
	434	810	3.38	4470	1.00		TRX 107	YDT 225S4	116
	479	740	3.07	4950	1.10		TRXF 107	YDT 225S4	117
	557	635	2.64*	5530	1.30				
	638	555	2.30	5610	1.50				
	752	470	1.95	5490	1.65				
	860	410	1.71	5370	1.70				
1020	345	1.44	5220	1.85					
45	20	21500	73.70*	120000	0.85	TR 167	YDT 225M4	147	
	22	19700	67.40	120000	0.90	TRF 167	YDT 225M4	148	
	25	17100	58.65	120000	1.05				
	28	15100	51.76	120000	1.20				
	33	13100	44.87	120000	1.35	TR 167	YDT 225M4	147	
	37	11700	39.92	120000	1.55	TRF 167	YDT 225M4	148	
	43	10100	34.41	120000	1.80				
	53	8170	27.96	120000	2.20				
	62	6930	23.71	120000	2.60				
	48	8980	30.71	120000	1.10	TR 167	YDT 225M4	147	
	60	7180	24.57	120000	1.95	TRF 167	YDT 225M4	148	
	67	6390	21.85	120000	2.00				
	77	5560	19.03	120000	2.90				
	87	4960	16.98	120000	3.00				
	28	15500	52.87	44400	0.85	TR 147	YDT 225M4	145	
	32	13600	46.65	61300	0.95	TRF 147	YDT 225M4	146	
	36	11800	40.29	65000	1.10				
	41	10400	35.64	67200	1.25				
	49	B760	29.95	69400	1.50				
	61	7070	24.19	71300	1.70				
	72	5970	20.44	72200	2.00				
	82	5270	18.04	72800	2.00				
	94	4570	15.64	73200	2.80				
	106	4070	13.91	73500	3.10				
	123	3510	11.99	73800	3.70				
	203	2120	7.25	74300	4.10				
	45	9620	32.91	41700	0.85	TR 137	YDT 225M4	143	
	53	8130	27.83	51200	0.95	TRF 137	YDT 225M4	144	
	61	7050	24.12	52400	1.15				
	67	6430	22.00*	52900	1.25				
77	5570	19.04*	53300	1.45					
88	4910	16.80*	53400	1.65					
101	4240	14.51	53200	1.90					
115	3750	12.83	52800	2.10					
136	3150	10.79	51900	2.50					
169	2550	8.71	50500	3.10					
194	2220	7.59	50200	2.30					
230	1860	6.38	48700	2.70					
285	1510	5.15	46700	3.10					

P_{1n} [kW]	n_2 [1/min]	M_{2n} [Nm]	i	Fr_2 [N]	f_s				Page
45	94	4580	15.65	14600	0.95	TR	107	YDT 225M4	141
	108	3990	13.66	14600	1.10				TRF
	127	3390	11.59	14400	1.25				
	145	2960	10.13	14300	1.45				
	172	2500	8.56	14000	1.70				
	187	2300	7.86	14400	1.30				
	221	1950	6.66	14000	1.50				
	252	1700	5.82	13600	1.75				
	299	1440	4.92	13100	2.00				
	434	990	3.38	1360	0.85	TRX	107	YDT 225M4	116
	479	900	3.07	2080	0.90	TRXF	107	YDT 225M4	117
	557	770	2.64*	2970	1.10				
	638	675	2.30	3640	1.25				
	752	570	1.95	4200	1.35				
	860	500	1.71	4540	1.40				
	1020	420	1.44	4880	1.55				
	55	25	20900	58.65	120000	0.85	TR	167	YDT 250M4
29		16400	51.76	120000	1.00	TRF	167	YDT 250M4	148
33		16000	44.87	120000	1.15				
37		14200	39.92	120000	1.25				
43		12300	34.41	120000	1.45				
53		9950	27.96	120000	1.80				
62		8440	23.71	120000	2.10				
60		8750	24.57	120000	1.50	TR	167	YDT 250M4	147
68		7780	21.85	120000	1.65	TRF	167	YDT 250M4	148
77		6780	19.03	120000	2.40				
87		6050	16.98	120000	2.50				
102		5150	14.48	120000	3.50				
123		4270	11.99	120000	4.00				
32		16600	46.65	26600	0.80	TR	147	YDT 250M4	145
37		14300	40.29	58200	0.90	TRF	147	YDT 250M4	146
41		12700	35.64	63300	1.00				
49		10700	29.95	66800	1.20				
61		8610	24.19	69600	1.40				
72		7280	20.44	71100	1.65				
82		6420	18.04	71900	1.65				
94		5570	15.64	72500	2.30				
106		4950	13.91	73000	2.50				
123		4270	11.99	73400	3.00				
151		3470	9.74	73800	3.80				
203		2580	7.25	74200	3.40				
250		2100	5.89	72500	4.10				
77		6780	19.04*	47800	1.20	TR	137	YDT 250M4	143
88		5980	16.80*	48500	1.35	TRF	137	YDT 250M4	144
102		5170	14.51	48900	1.55				
115		4570	12.83	49000	1.75	TR	137	YDT 250M4	143
137		3840	10.79	48800	2.10	TRF	137	YDT 250M4	144
169		3100	8.71	48000	2.50				
194	2700	7.59	48100	1.90					
231	2270	6.38	46900	2.30					
286	1830	5.15	45200	2.50					

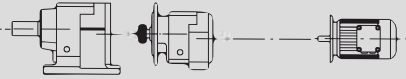
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	37	19300	39.92	120000	0.95			TRF 167	YDT 280S4	148
	43	16700	34.41	120000	1.10					
	53	13500	27.96	120000	1.35					
	62	11500	23.71	120000	1.55					
	60	11900	24.57	120000	1.20			TR 167	YDT 280S4	147
	68	10600	21.85	120000	1.25			TRF 167	YDT 280S4	148
	78	9210	19.03	120000	1.75					
	87	8220	16.98	120000	1.85					
	102	7000	14.48	120000	2.60					
	123	5800	11.99	116600	2.90					
	145	4950	10.24	112800	3.40					
	49	14500	29.95	56500	0.90			TR 147	YDT 280S4	145
	61	11700	24.19	65100	1.00			TRF 147	YDT 280S4	146
	72	9890	20.44	67900	1.20					
	82	8730	18.04	69500	1.20					
	95	7570	15.64	70800	1.70					
	105	5730	13.91	71600	1.85					
	123	5800	11.99	72400	2.20					
	152	4710	9.74	73100	2.80					
179	4000	8.26	73500	3.30						
204	3510	7.25	73100	2.50						
251	2850	5.89	70100	3.00						
296	2420	5.00	67600	3.60						
90	37	23200	39.92	120000	0.80	TR 167	YDT 280M4	147		
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	62	13800	23.71	120000	1.30					
	78	11100	19.03	120000	1.45					
	B7	9860	16.98	120000	1.50					
	102	8410	14.48	117300	2.10					
	123	6960	11.99	113500	2.40					
	145	5940	10.24	110100	2.90					
	95	9080	15.64	69000	1.45	TR 147	YDT 280M4	145		
	106	8080	13.91	70200	1.55	TRF 147	YDT 280M4	146		
	123	6960	11.99	71400	1.85					
	152	5660	9.74	72500	2.30					
	179	4800	8.26	73000	2.70					
	204	4210	7.25	70900	2.10					
	251	3420	5.89	68300	2.50					
	298	2900	5.00	66100	3.00					
110	53	19800	27.96	117100	0.90	TR 167	YDT 315S4	147		
	63	16800	23.71	116900	1.05	TRF 167	YDT 315S4	148		
	78	13500	19.03	115500	1.20					
	87	12000	16.98	114300	1.25					
	103	10200	14.48	112200	1.75					
	124	8480	11.99	109300	2.00					
	145	7240	10.24	106500	2.40					
132	63	20100	23.71	107900	0.90	TR 167	YDT315M4	147		
	78	16200	19.03	108300	1.00	TRF 167	YDT315M4	148		
	87	14400	16.98	107800	1.05					
	103	12300	14.48	106700	1.45					
	124	10200	11.99	104700	1.65					
	145	8690	10.24	102600	1.95					
160	103	14900	14.48	99700	1.20	TR 167	YDT315M4A	147		
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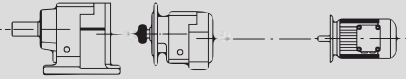
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	0.37	3704	5420		
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	0.48	2898	5420		
	0.56	2453	5420		
	0.53	2598	5420	TR 47 / TRF37	YDA 63S4 149
	0.58	2383	5420	TRF 47 / TRF37	YDA 63S4 149
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	0.85	1630	5420		
	0.97	1425	5420		
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	1.2	1179	5420		
	1.3	1074	5420		
	1.5	927	5420		
	1.6	863	5420		
	1.8	755	5420		
	2.5	546	5420	TR 47 / TRF37	YDA 63S4 149
	2.8	502	5420	TRF 47 / TRF37	YDA 63S4 149
	3.1	429	5420	TR 47 / TRF37	YDA 63M4 149
	3.6	372	5420	TRF 47 / TRF37	YDA 63M4 149
3.8	348	5420			
4.4	301	5420			
5.1	255	5420	TR 47 / TRF37	YDA 63S4 149	
5.7	228	5420	TRF 47 / TRF37	YDA 63S4 149	
450	0.10	14369	7110	TR 57 / TRF37	YDA 63S4 149
	0.11	12095	7110	TRF 57 / TRF37	YDA 63S4 149
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	0.36	3873	7110		
	0.41	3344	7110		
	0.47	2907	7110		
	0.54	2567	7110		
	0.61	2244	7110		
	0.70	1967	7110		
	0.80	1732	7110	TR 57 / TRF37	YDA 63S4 149
	0.89	1555	7110	TRF 57 / TRF37	YDA 63S4 149
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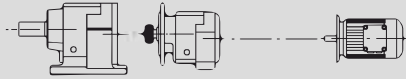
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	2.8	471	7110				
	3.6	357	7110	TR	57 / TRF37	YDA 63L4	149
	4.1	319	7110	TRF	57 / TRF37	YDA 63L4	149
	5.1	273	7110	TR	57 / TRF37	YDA 71D4	149
	5.7	241	7110	TRF	57 / TRF37	YDA 71D4	149
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	0.11	12931	7560	TRF	67 / TRF37	YDA 63S4	149
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	0.29	4680	7560				
	0.33	4136	7560				
	0.39	3566	7560				
	0.44	3125	7560				
	0.50	2745	7560				
	0.57	2403	7560				
	0.51	2682	7560	TR	67 / TRF37	YDA 63S4	149
	0.56	2460	7560	TRF	67 / TRF37	YDA 63S4	149
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	0.94	1471	7560				
	1.0	1379	7560				
	1.8	730	7560	TR	67 / TRF37	YDA 63M4	149
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	2.7	486	7560	TR	67 / TRF37	YDA 63L4	149
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	0.84	1652	7560	TR	67 / TRF37	YDA 63S4	149
	0.96	1432	7560	TRF	67 / TRF37	YDA 63S4	149
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	1.2	1106	7560				
	1.6	836	7560	TR	67 / TRF37	YDA 63M4	149
	1.8	750	7560	TRF	67 / TRF37	YDA 63M4	149
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3.0	438	7560	TRF	67 / TRF37	YDA 63L4	149	
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4	344	7560	TR	67 / TRF37	YDA 71D4	149	
4.7	294	7560	TRF	67 / TRF37	YDA 71D4	149	
820	0.08	16370	9920	TR	77 / TRF37	YDA 63S4	149
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	0.13	11021	9920				
	0.14	9788	9920				
	0.16	8714	9920				
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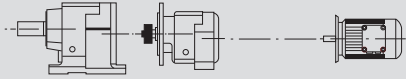
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	1.3	1047	9920	TRF 77 / TRF37	YDA 63M4 149	
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	2.8	488	9920	TR 77 / TRF37	YDA 71D4 149	
	3.2	436	9920	TRF 77 / TRF37	YDA 71D4 149	
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	4.2	327	9920			
	4.7	289	9920	TR 77 / TRF37	YDA 80K4 149	
	5.2	260	9920	TRF 77 / TRF37	YDA 80K4 149	
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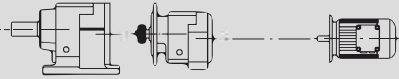
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	0.76	1737	16900	TR	87 / TRF57	YDA 63M4	149
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	1.4	1008	16900	TR	87 / TRF57	YDA 80K4	149
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	1.6	885	16900	TR	87 / TRF57	YDA 71D4	149
				TRF	87 / TRF57	YDA 71D4	149
	2.0	685	16900	TR	87 / TRF57	YDA 80K4	149
	2.3	599	16900	TRF	87 / TRF57	YDA 80K4	149
	3.5	398	16900	TR	87 / TRF57	YDA 80N4	149
	3.9	352	16900	TRF	87 / TRF57	YDA 80N4	149
	4.5	305	16900	TR	87 / TRF57	YDA 90S4	149
	5.2	268	16900	TRF	87 / TRF57	YDA 90S4	149
	2.5	538	16900	TR	87 / TRF57	YDA 80K4	149
	2.9	472	16900	TRF	87 / TRF57	YDA 80K4	149
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	0.21	6708	19800				
	0.23	5931	19800				
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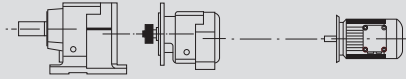
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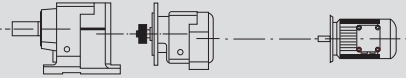
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	1.1	1228	19800	TR 97 / TRF57	YDA80K4	149
	1.3	1069	19800	TRF 97 / TRF57	YDA80K4	149
	1.4	938	19800			
	1.7	824	19800	TR 97 / TRF57	YDA80N4	149
	1.9	737	19800	TRF 97 / TRF57	YDA80N4	149
	2.2	632	19800	TR 97 / TRF57	YDA90S4	149
	2.5	560	19800	TRF 97 / TRF57	YDA90S4	149
	2.9	484	19800			
	3.3	431	19800	TR 97 / TRF57	YDA90L4	149
	3.7	379	19800	TRF 97 / TRF57	YDA90L4	149
	4.2	336	19800			
	4.8	296	19800	TR 97 / TRF57	YDA100M4	149
	5.7	249	19800	TRF 97 / TRF57	YDA100M4	149
	6.0	234	19800			
	2.2	625	19800	TR 97 / TRF57	YDA90S4	149
	2.6	549	19800	TRF 97 / TRF57	YDA90S4	149
	5.2	270	19800	TR 97 / TRF57	YDA100M4	149
6.2	227	19800	TRF 97 / TRF57	YDA100M4	149	
4300	0.07	20018	29500	TR 107 / TRF77	YDA63S4	149
	0.08	17080	29500	TRF 107 / TRF77	YDA63S4	149
	0.09	14936	29500			
	0.11	12829	29500			
	0.12	11256	29500			
	0.14	9547	29500			
	0.16	8618	29500			
	0.18	7583	29500			
	0.20	6743	29500	TR 107 / TRF77	YDA63M4	149
	0.22	5914	29500	TRF 107 / TRF77	YDA63M4	149
	0.26	5168	29500			
	0.30	4435	29500			
	0.33	3896	29500	TR 107 / TRF77	YDA63L4	149
	0.43	3039	29500	TRF 107 / TRF77	YDA63L4	149
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	0.43	3034	29500	TRF 107 / TRF77	YDA63L4	149
	0.5	2653	29500	TR 107 / TRF77	YDA71D4	149
	0.6	2280	29500	TRF 107 / TRF77	YDA71D4	149
	0.7	2067	29500			
	0.8	1693	29500	TR 107 / TRF77	YDA80K4	149
	0.9	1550	29500	TRF 107 / TRF77	YDA80K4	149
	1.0	1407	29500			
	1.1	1209	29500	TR 107 / TRF77	YDA80N4	149
	1.3	1055	29500	TRF 107 / TRF77	YDA80N4	149
	1.5	919	29500	TR 107 / TRF77	YDA90S4	149
	1.7	815	29500	TRF 107 / TRF77	YDA90S4	149
	1.9	717	29500			
	2.2	626	29500	TR 107 / TRF77	YDA90L4	149
2.7	528	29500	TRF 107 / TRF77	YDA90L4	149	
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			TRF 107 / TRF77	YDA71D4	149	

PERFORMANCE PARAMETER TR../TRF.. YDA

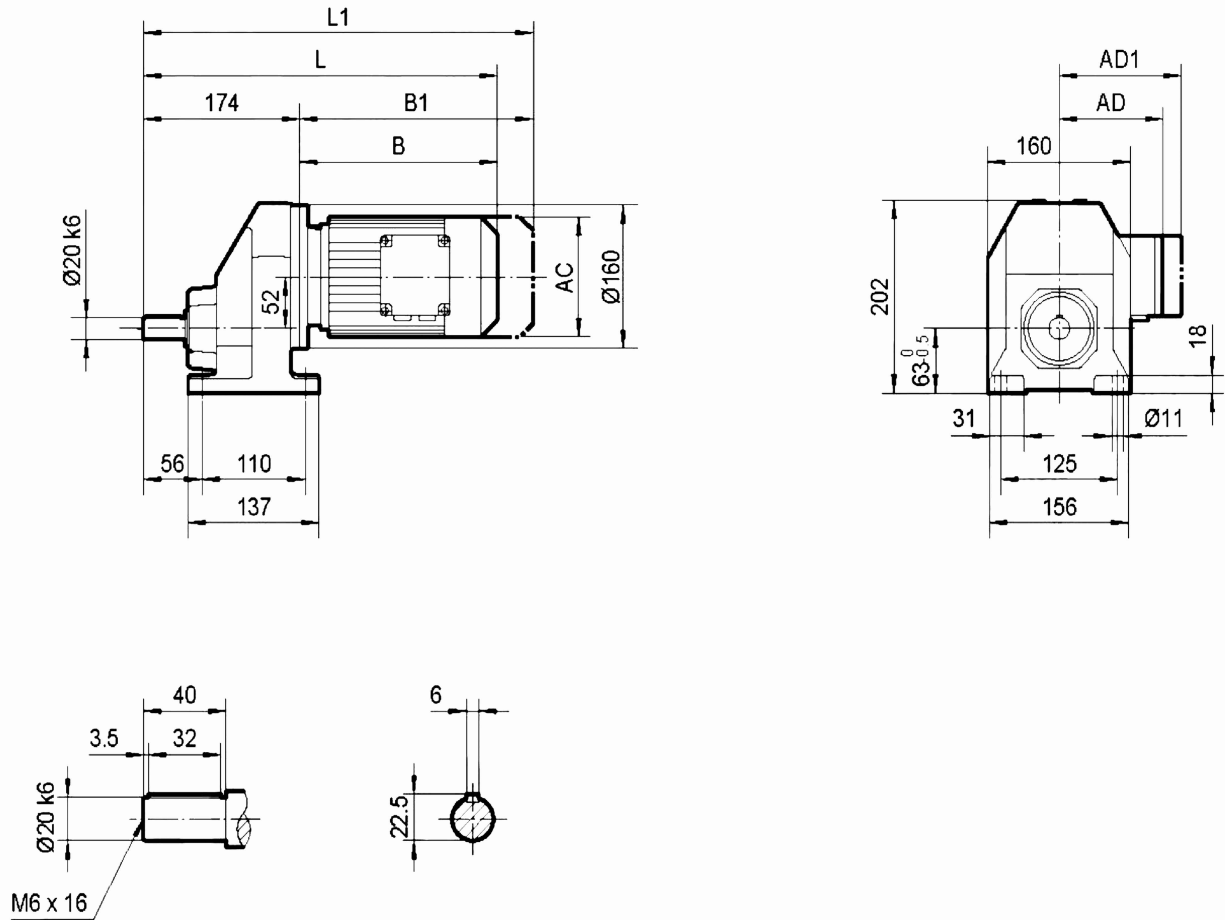
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	0.9	1599	29500	TRF 107 / TRF77	YDA 80K4	149
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	1.1	1226	29500	TR 107 / TRF77	YDA 80N4	149
	1.2	1104	29500	TRF 107 / TRF77	YDA 80N4	149
	1.5	939	29500			
	1.7	822	29500	TR 107 / TRF77	YDA 90S4	149
				TRF 107 / TRF77	YDA 90S4	149
	2.3	614	29500	TR 107 / TRF77	YDA 90L4	149
	2.6	544	29500	TRF 107 / TRF77	YDA 90L4	149
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	3.4	417	29500	TR 107 / TRF77	YDA 100M4	149
	3.8	369	29500	TRF 107 / TRF77	YDA 100M4	149
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	4.9	285	29500	TR 107 / TRF77	YDA 100L4	149
	5.5	253	29500	TRF 107 / TRF77	YDA 100L4	149
	6.6	214	29500	TR 107 / TRF77	YDA 112M4	149
	7.6	187	29500	TRF 107 / TRF77	YDA 112M4	149
	3.0	469	29500	TR 107 / TRF77	YDA 90L4	149
				TRF 107 / TRF77	YDA 90L4	149
	3.3	426	29500	TR 107 / TRF77	YDA 100M4	149
	3.7	377	29500	TRF 107 / TRF77	YDA 100M4	149
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	4.9	284	29500	TR 107 / TRF77	YDA 100L4	149
	5.5	256	29500	TRF 107 / TRF77	YDA 100L4	149
	6.5	220	29500	TR 107 / TRF77	YDA 112M4	149
	7.3	193	29500	TRF 107 / TRF77	YDA 112M4	149
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8000	0.06	22203	53400	TR 137 / TRF77	YDA 63S4	149
	0.07	18945	53400	TRF 137 / TRF77	YDA 63S4	149
	0.08	16566	53400			
	0.09	14777	53400			
	0.11	12921	53400			
	0.1	11712	53400	TR 137 / TRF77	YDA 63M4	149
	0.1	10573	53400	TRF 137 / TRF77	YDA 63M4	149
	0.2	8784	53400			
	0.2	7479	53400	TR 137 / TRF77	YDA 63L4	149
	0.2	6559	53400	TRF 137 / TRF77	YDA 63L4	149
	0.2	5834	53400			
	0.3	5116	53400	TR 137 / TRF77	YDA 71D4	149
	0.3	4464	53400	TRF 137 / TRF77	YDA 71D4	149
	0.4	3928	53400			
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	0.39	3514	53400	TR 137 / TRF77	YDA 80K4	149
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	0.55	2484	53400			
	0.62	2242	53400	TR 137 / TRF77	YDA 80N4	149
	0.74	1863	53400	TRF 137 / TRF77	YDA 80N4	149
	0.9	1586	53400	TR 137 / TRF77	YDA 90S4	149
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	2.3	609	53400	TRF 137 / TRF77	YDA100M4	149
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	0.56	2412	53400	TRF 137 / TRF77	YDA80K4	149
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	1.9	730	53400	TRF 137 / TRF77	YDA100M4	149
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	2.5	560	53400	TR 137 / TRF77	YDA100L4	149
	2.9	490	53400	TRF 137 / TRF77	YDA100L4	149
	3.3	428	53400	TR 137 / TRF77	YDA112M4	149
	3.7	381	53400	TRF 137 / TRF77	YDA112M4	149
	4.4	323	53400	TR 137 / TRF77	YDA132S4	149
	4.9	291	53400	TRF 137 / TRF77	YDA132S4	149
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	2.5	564	53400	TR 137 / TRF77	YDA100L4	149
	2.7	517	53400	TRF 137 / TRF77	YDA100L4	149
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	4.8	297	53400	TR 137 / TRF77	YDA132S4	149
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	0.1	15923	62700	TRF 147 / TRF77	YDA 63M4	149
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	0.1	11143	62700	TRF 147 / TRF77	YDA 63L4	149
	0.1	9743	62700			
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	0.2	7307	62700	TRF 147 / TRF77	YDA 71D4	149
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	0.3	4926	62700	TRF 147 / TRF77	YDA80K4	149
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	0.4	3302	62700	TRF 147 / TRF77	YDA 80N4	149
	0.5	2898	62700			
	0.6	2555	62700	TR 147 / TRF77	YDA 90S4	149
	0.6	2211	62700	TRF 147 / TRF77	YDA 90S4	149
	0.7	1951	62700			
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$M_{2\max}$ [Nm]	n_2 [1/min]	i	F_{r_2} [N]		Page
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	1.6	889	62700	TR 147 / TRF77	YDA 100L4 149
	1.8	784	62700	TRF 147 / TRF77	YDA 100L4 149
	2.0	695	62700	TR 147 / TRF77	YDA 112M4 149
	2.3	619	62700	TRF 147 / TRF77	YDA 112M4 149
	2.5	558	62700		
	2.9	489	62700	TR 147 / TRF77	YDA 132S4 149
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	2.7	533	62700	TR 147 / TRF87	YDA 112M4 149
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	3.1	462	62700	TR 147 / TRF87	YDA 132S4 149
	3.4	426	62700	TRF 147 / TRF87	YDA 132S4 149
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	4.4	326	62700	TRF 147 / TRF87	YDA 132M4 149
	5.1	280	62700	TR 147 / TRF87	YDA 132ML4 149
	5.8	247	62700	TRF 147 / TRF87	YDA 132ML4 149
6.7	214	62700	TR 147 / TRF87	YDA 160M4 149	
			TRF 147 / TRF87	YDA 160M4 149	
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	0.08	17361	120000		
	0.09	15446	120000		
	0.10	14051	120000		
	0.12	11812	120000		
	0.13	10509	120000		
	0.14	9631	120000		
	0.18	7749	120000	TR 167 / TRF97	YDA 90S4 149
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	0.22	6077	120000	TR 167 / TRF97	YDA 80K4 149
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	0.38	3692	120000	TR 167 / TRF97	YDA 90S4 149
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	0.5	2657	120000	TR 167 / TRF97	YDA 90L4 149
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	0.8	1670	120000	TRF 167 / TRF97	YDA 100M4 149
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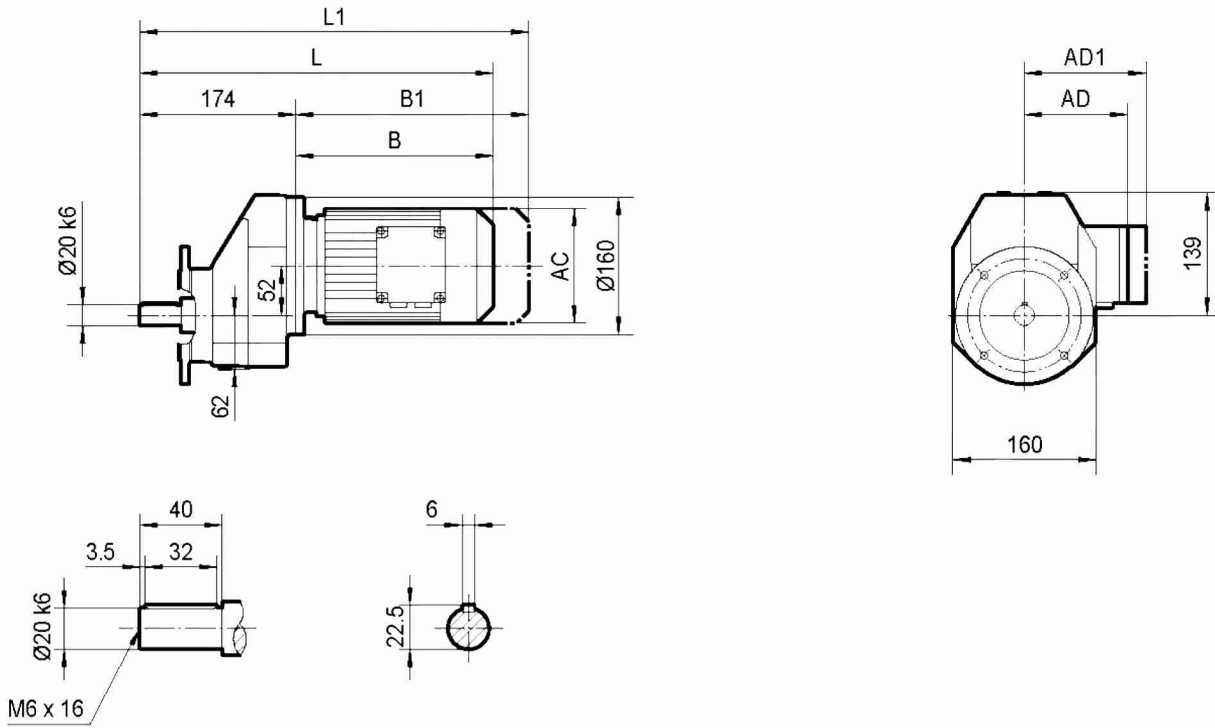
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	4.9	295	120000	TR 167 / TRF107	YDT 160M4	149
	5.3	270	120000	TRF 167 / TRF107	YDT 160M4	149
	6.4	229	120000	TR 167 / TRF107	YDT 160L4	149
	7.3	200	120000	TRF 167 / TRF107	YDT 160L4	149
	5.0	291	120000	TR 167 / TRF107	YDT 160M4	149
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	6.4	227	120000	TRF 167 / TRF107	YDT 160L4	149
	7.4	198	120000			

TRX57..



YDT	63..	71D	80..	90..	100M	100L	112M	132S			
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	359	373	423	443	493	523	528	576			
L1	414	437	487	528	578	608	608	656			

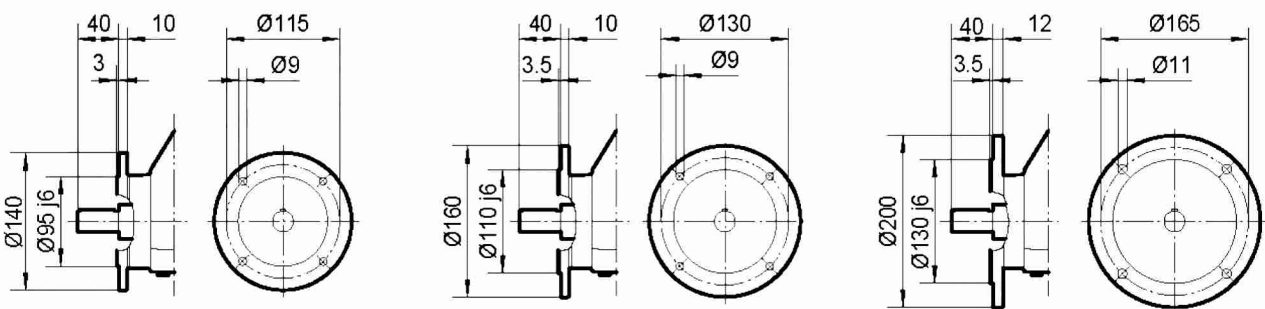
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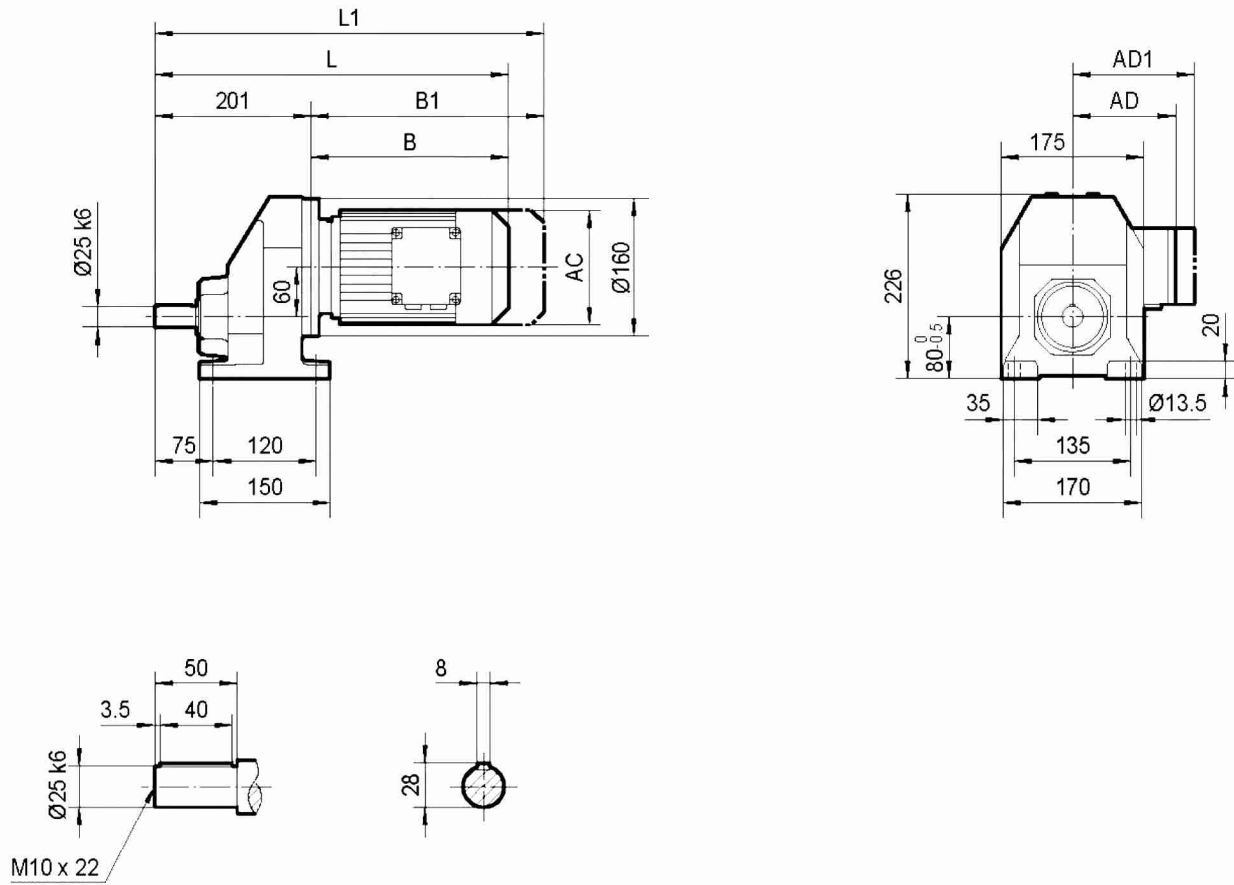
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III
Ø200



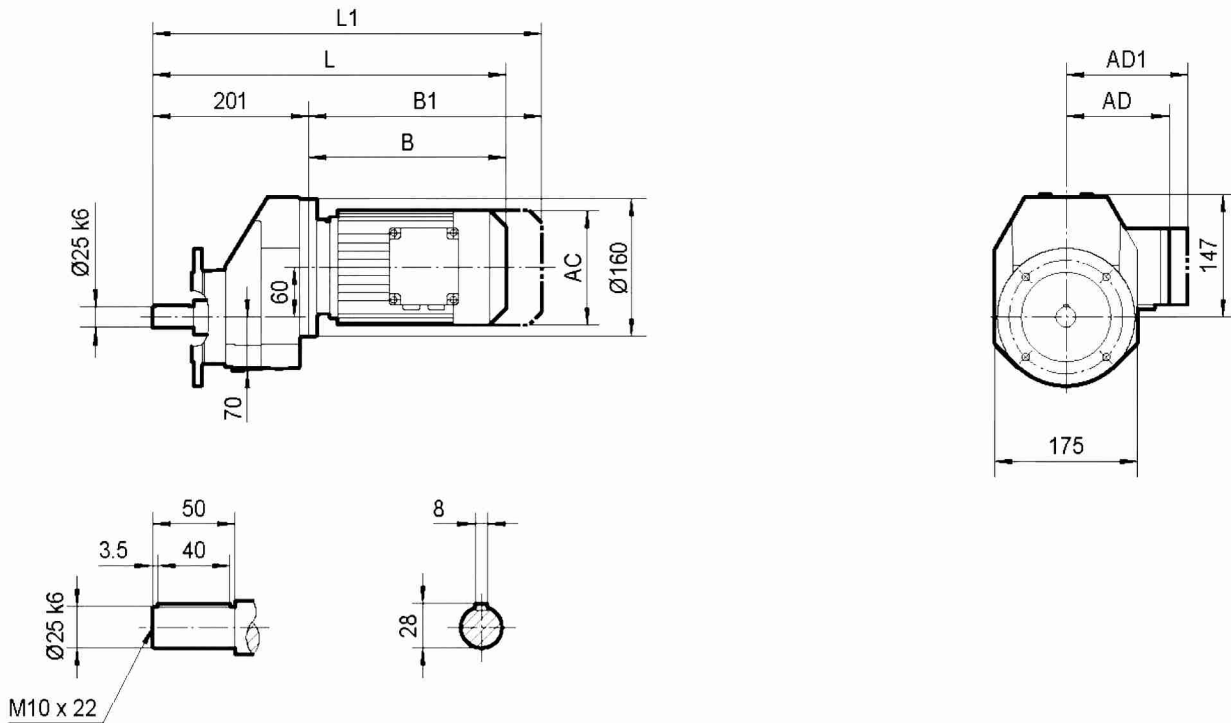
YDT	63..	71D	80..	90..	100M	100L	112M	132S			
AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	359	373	423	443	493	523	528	576			
L1	414	437	487	528	578	608	608	656			

TRX67..



YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	386	400	450	470	520	550	555	603	625		
L1	441	464	514	555	605	635	635	683	737		

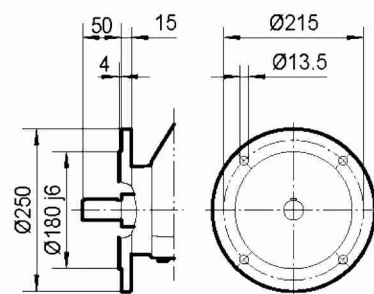
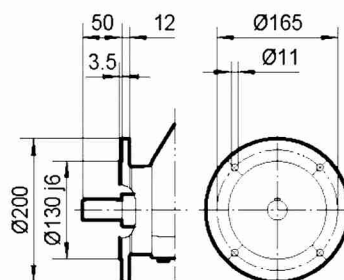
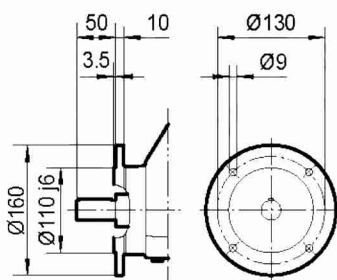
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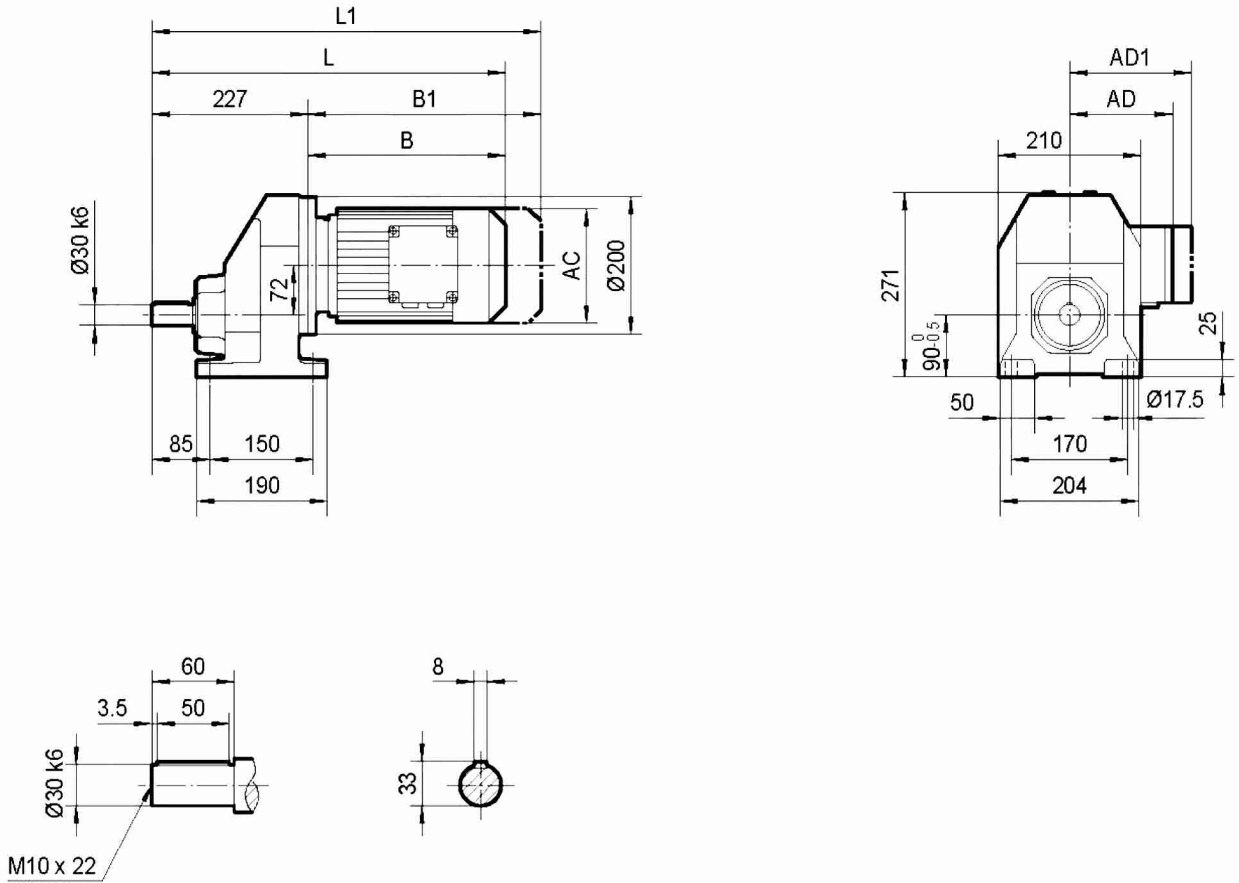
II
Ø200

III
Ø250



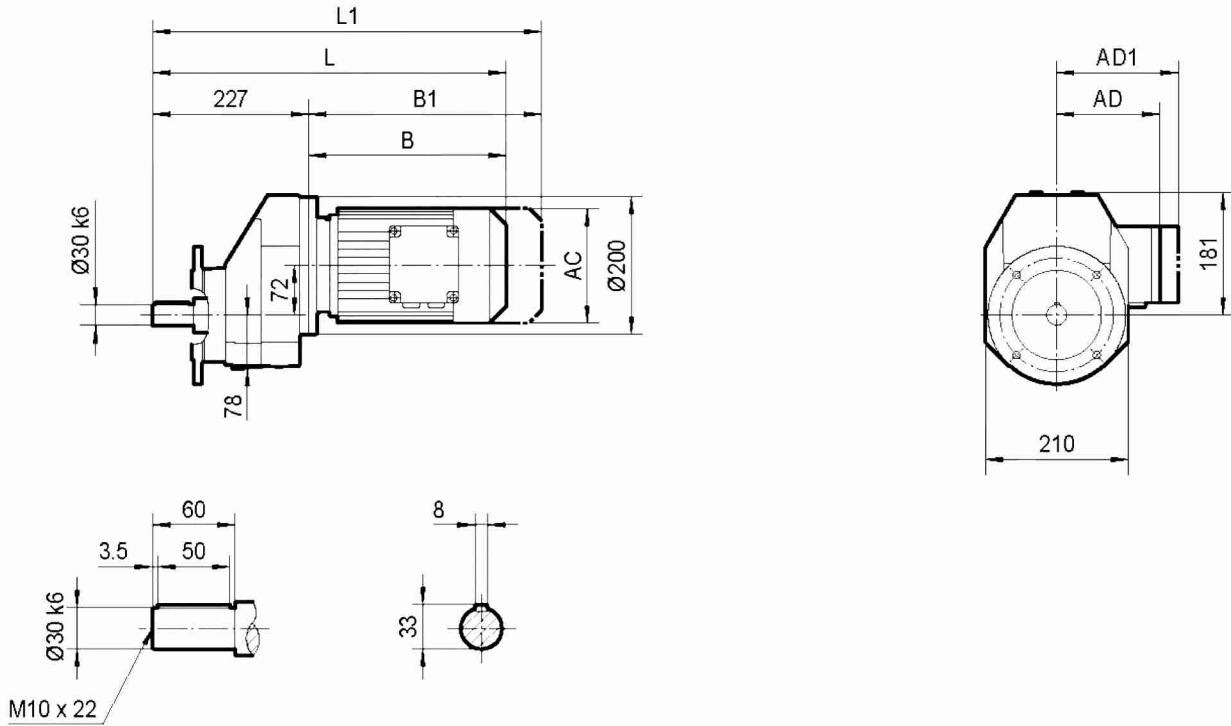
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AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	386	400	450	470	520	550	555	603	625		
L1	441	464	514	555	605	635	635	683	737		

TRX77..



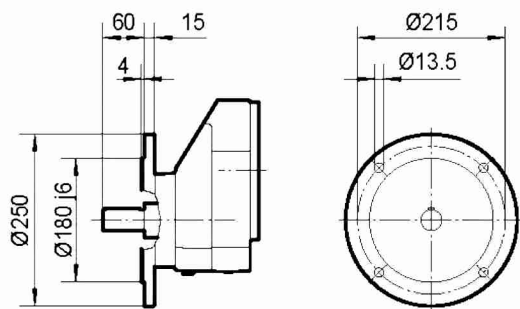
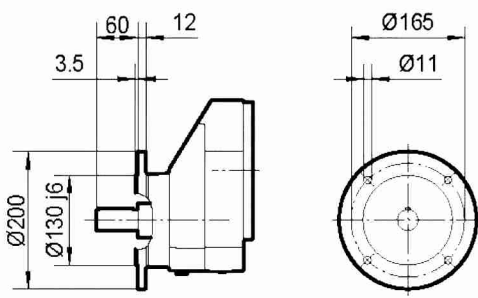
YDT	90..	100M	100L	112M	132S	132M	132ML	160M			
AC	197	197	197	221	221	275	275	275			
AD	154	166	166	179	179	230	230	230			
AD1	161	166	166	182	182	230	230	230			
B	261	311	341	345	390	412	472	472			
B1	346	396	426	425	470	524	584	584			
L	488	538	568	572	617	639	699	699			
L1	573	623	653	652	697	751	811	811			

TRXF77..



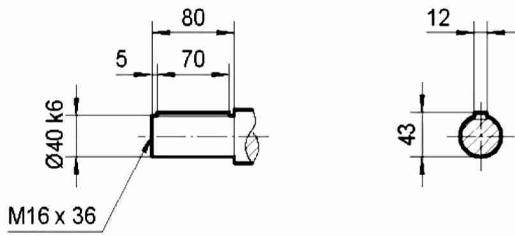
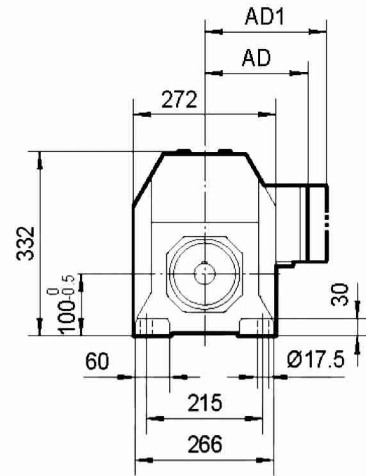
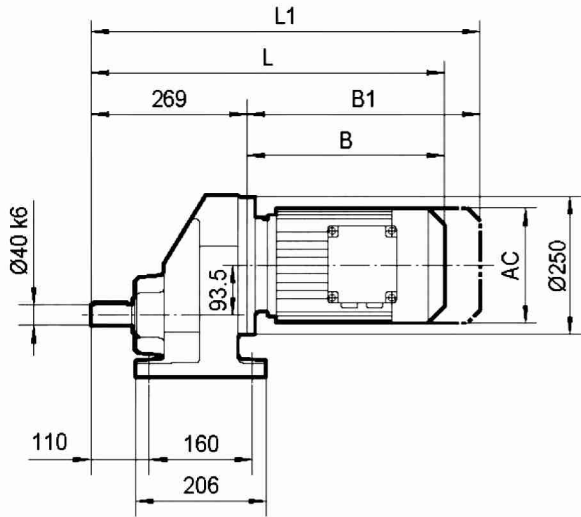
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I
Ø250



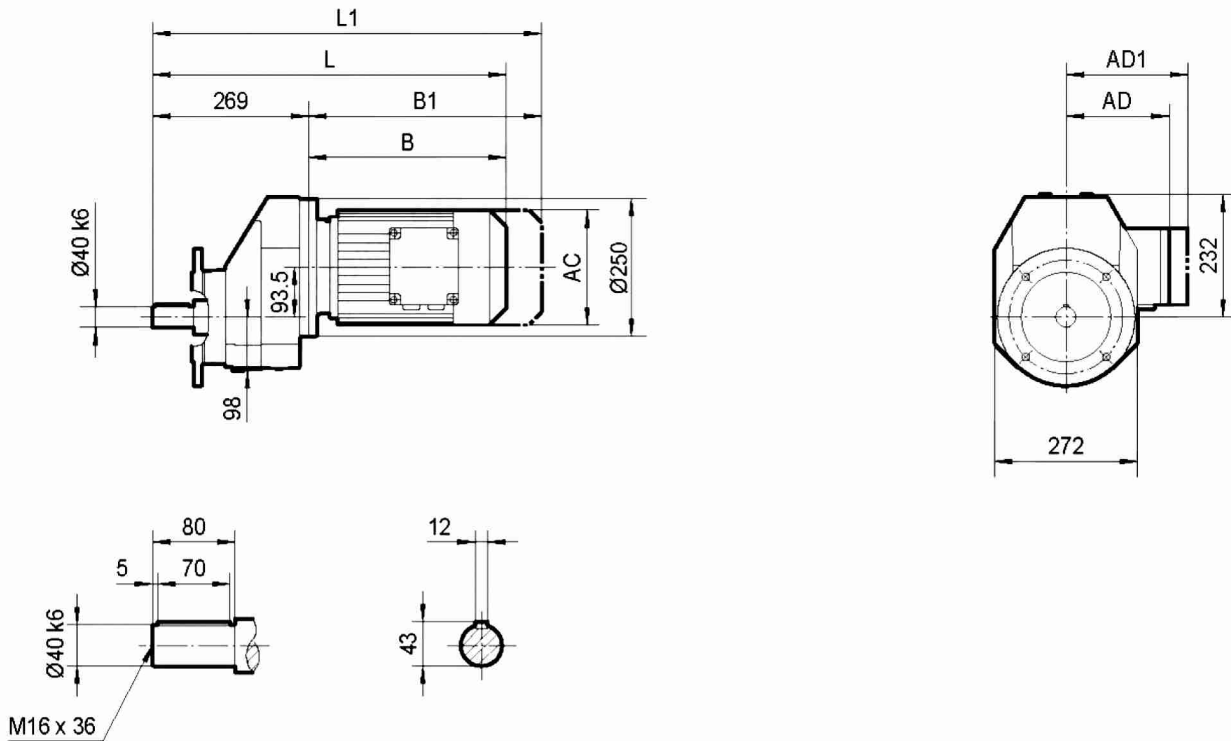
YDT	90..	100M	100L	112M	132S	132M	132ML	160M			
AC	197	197	197	221	221	275	275	275			
AD	154	166	166	179	179	230	230	230			
AD1	161	166	166	182	182	230	230	230			
B	261	311	341	345	390	412	472	472			
B1	346	396	426	425	470	524	584	584			
L	488	538	568	572	617	639	699	699			
L1	573	623	653	652	697	751	811	811			

TRX87..



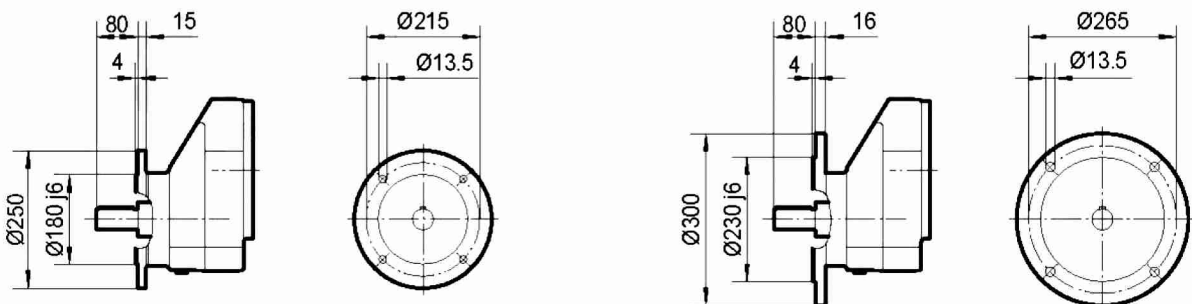
YDT	100L	112M	132S	132M	132ML	160M	160L	180..			
AC	197	221	221	275	275	275	331	331			
AD	166	179	179	230	230	230	258	258			
AD1	166	182	182	230	230	230	258	258			
B	337	340	385	407	467	467	514	586			
B1	422	420	465	519	579	579	670	742			
L	606	609	654	676	736	736	783	855			
L1	691	689	734	788	848	848	939	1011			

TRXF87..



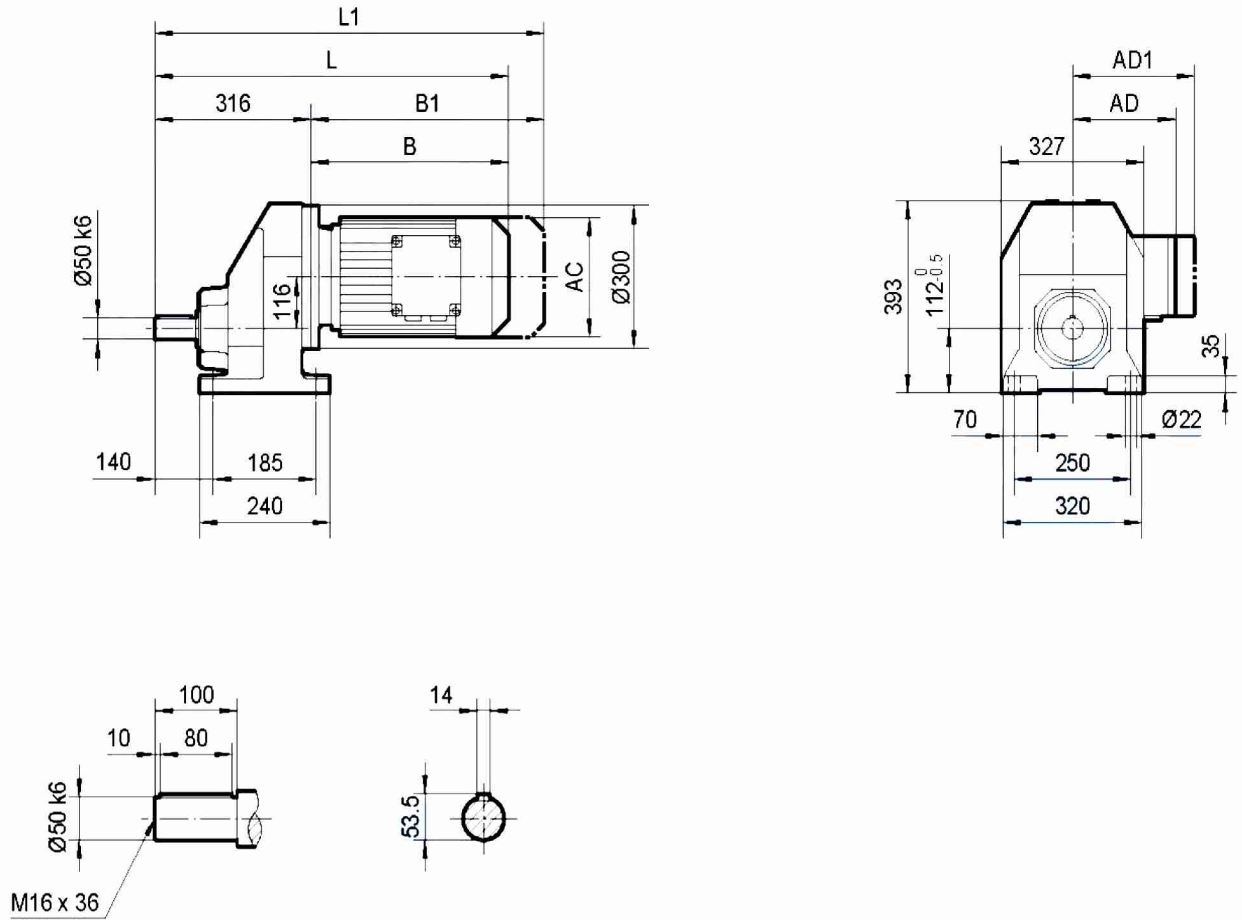
I
Ø250

II
Ø300



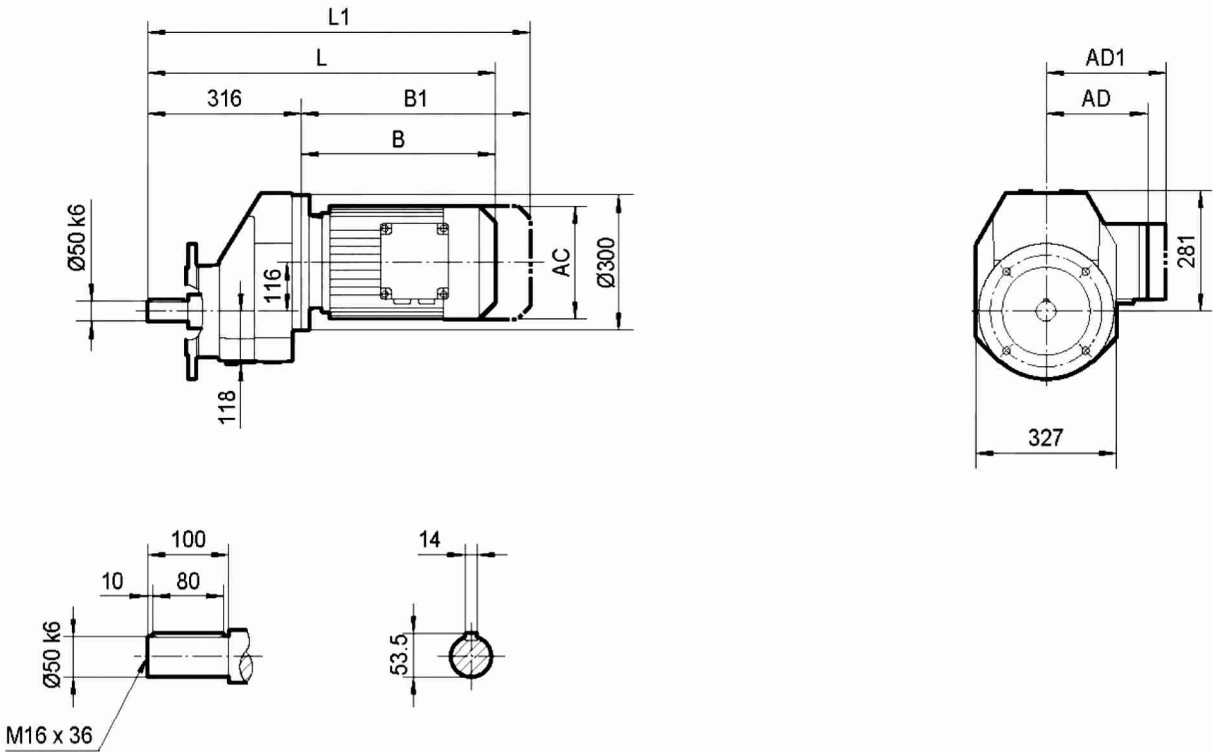
YDT	100L	112M	132S	132M	132ML	160M	160L	180..			
AC	197	221	221	275	275	275	331	331			
AD	166	179	179	230	230	230	258	258			
AD1	166	182	182	230	230	230	258	258			
B	337	340	385	407	467	467	514	586			
B1	422	420	465	519	579	579	670	742			
L	606	609	654	676	736	736	783	855			
L1	691	689	734	788	848	848	939	1011			

TRX97..



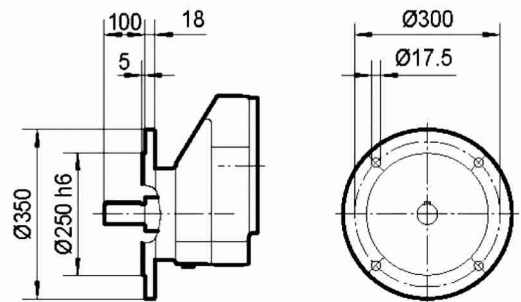
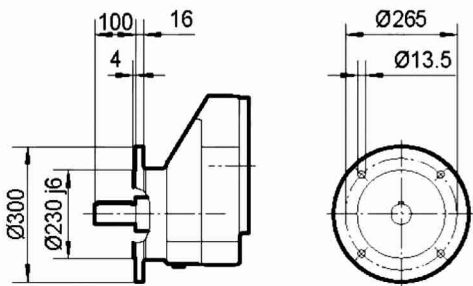
YDT	132S	132M	132ML	160M	160L	180..	200..				
AC	221	275	275	275	331	331	394				
AD	179	230	230	230	258	258	285				
AD1	182	230	230	230	258	258	285				
B	380	402	462	462	509	581	629				
B1	460	514	574	574	665	737	785				
L	696	718	778	778	825	897	945				
L1	776	830	890	890	981	1053	1101				

TRXF97..



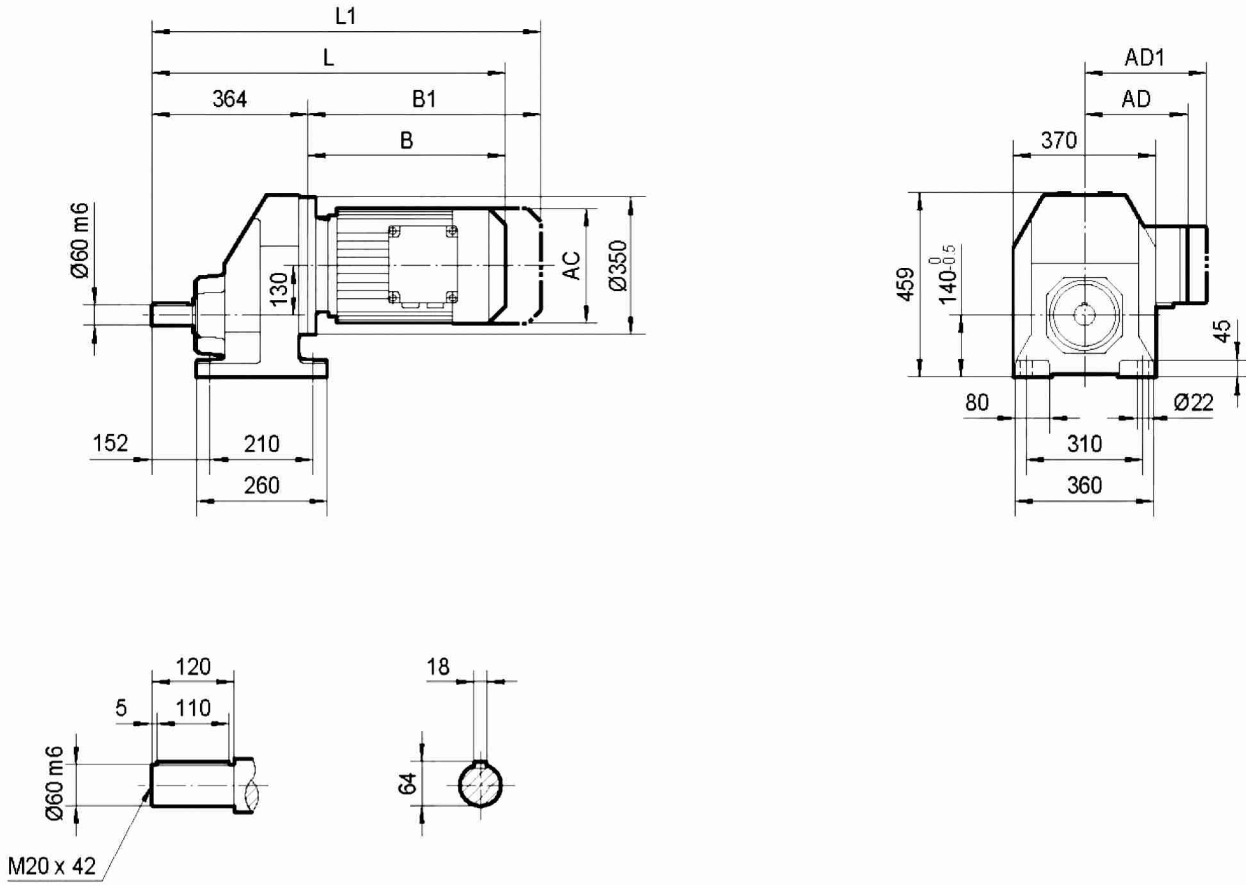
I
Ø300

II
Ø350



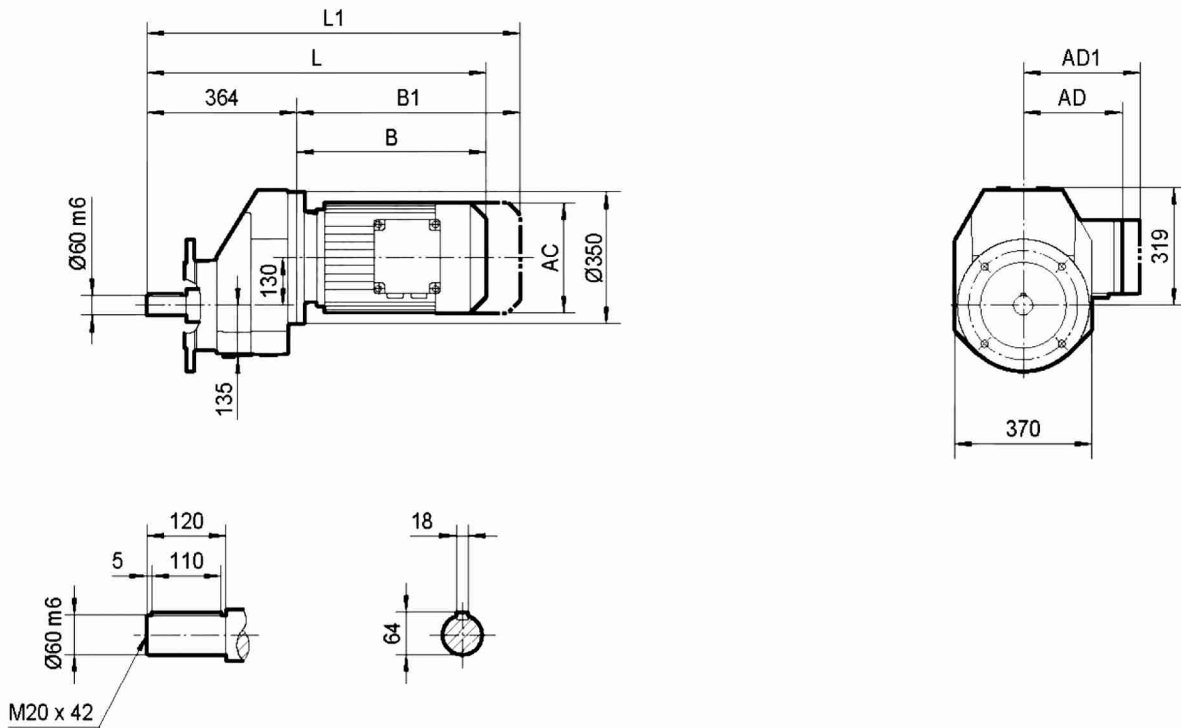
YDT	132S	132M	132ML	YD 160M	YDT160L	YDT180..	YDT200..				
AC	221	275	275	275	331	331	394				
AD	179	230	230	230	258	258	285				
AD1	182	230	230	230	258	258	285				
B	380	402	462	462	509	581	629				
B1	460	514	574	574	665	737	785				
L	696	718	778	778	825	897	945				
L1	776	830	890	890	981	1053	1101				

TRX107..



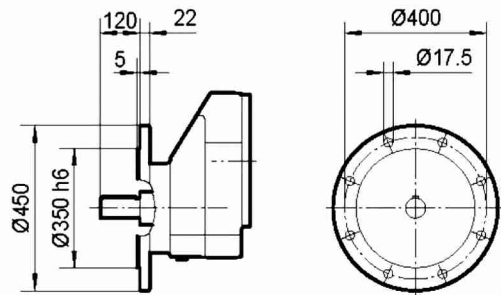
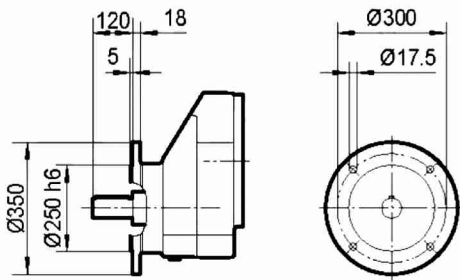
YDT	132S	132M	132ML	160M	160L	180..	200..	225..			
AC	221	275	275	275	331	331	394	394			
AD	179	230	230	230	258	258	285	289			
AD1	182	230	230	230	258	258	285	289			
B	374	396	456	456	503	575	623	705			
B1	454	508	568	568	669	731	779	861			
L	738	760	820	820	867	939	987	1069			
L1	818	872	932	932	1023	1095	1143	1225			

TRXF107..



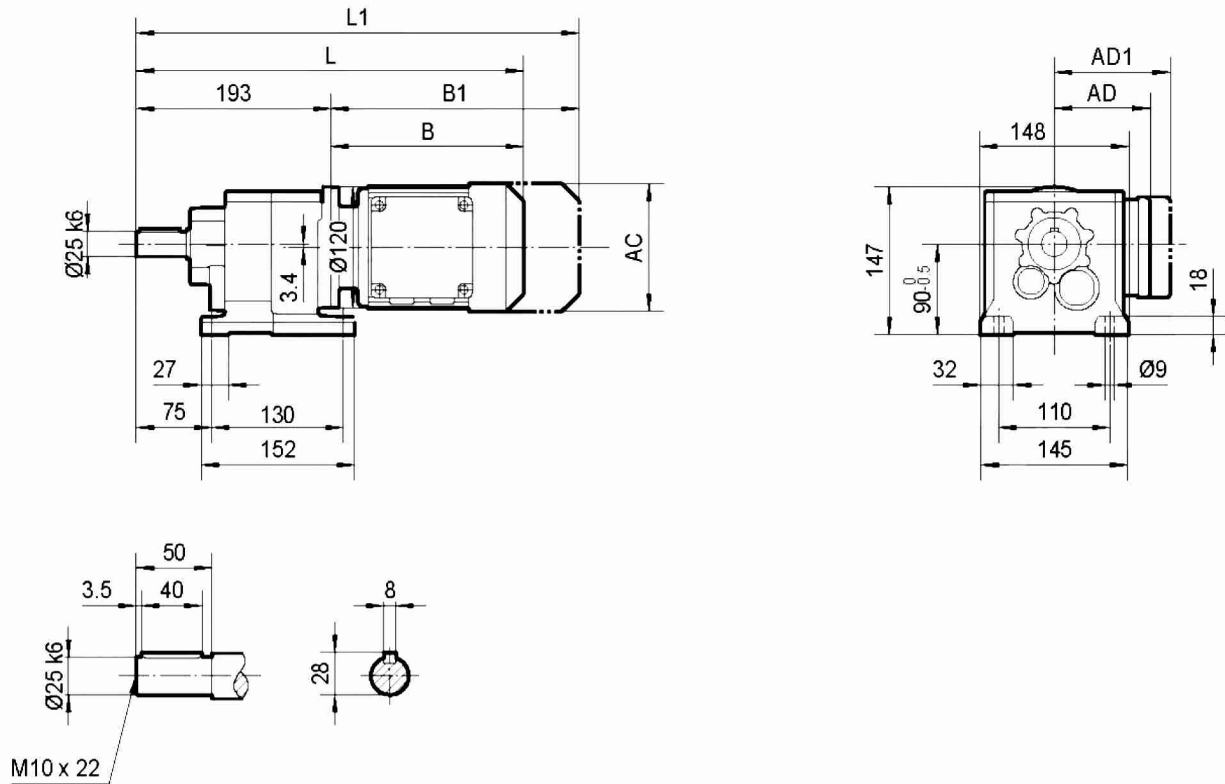
I
Ø350

II
Ø450



YDT	132S	132M	132ML	160M	160L	180..	200..	225..			
AC	221	275	275	275	331	331	394	394			
AD	179	230	230	230	258	258	285	289			
AD1	182	230	230	230	258	258	285	289			
B	374	396	456	456	503	575	623	705			
B1	454	508	568	568	669	731	779	861			
L	738	760	820	820	867	939	987	1069			
L1	818	872	932	932	1023	1095	1143	1225			

TR27..

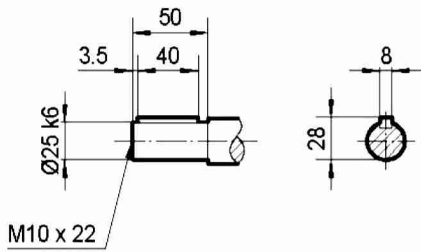
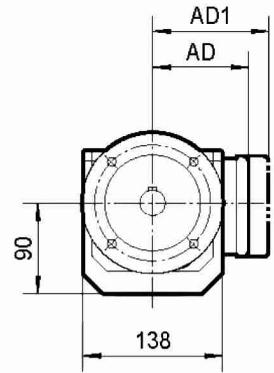
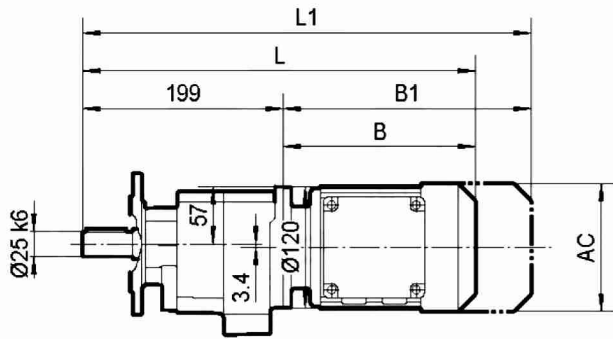


TR27F..



YDT	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	192	206	256	276	328	358					
B1	246	269	319	361	413	443					
L	385	399	449	469	521	551					
L1	439	462	512	554	606	636					

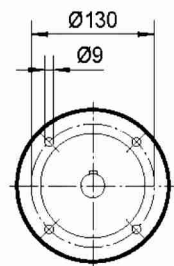
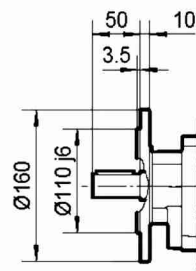
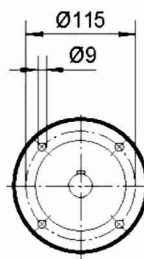
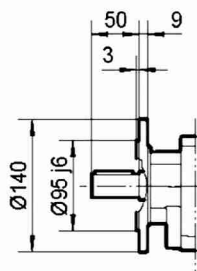
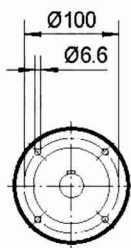
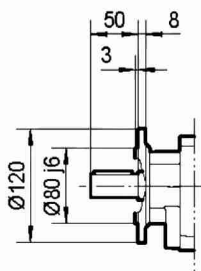
TRF27..



I
Ø120

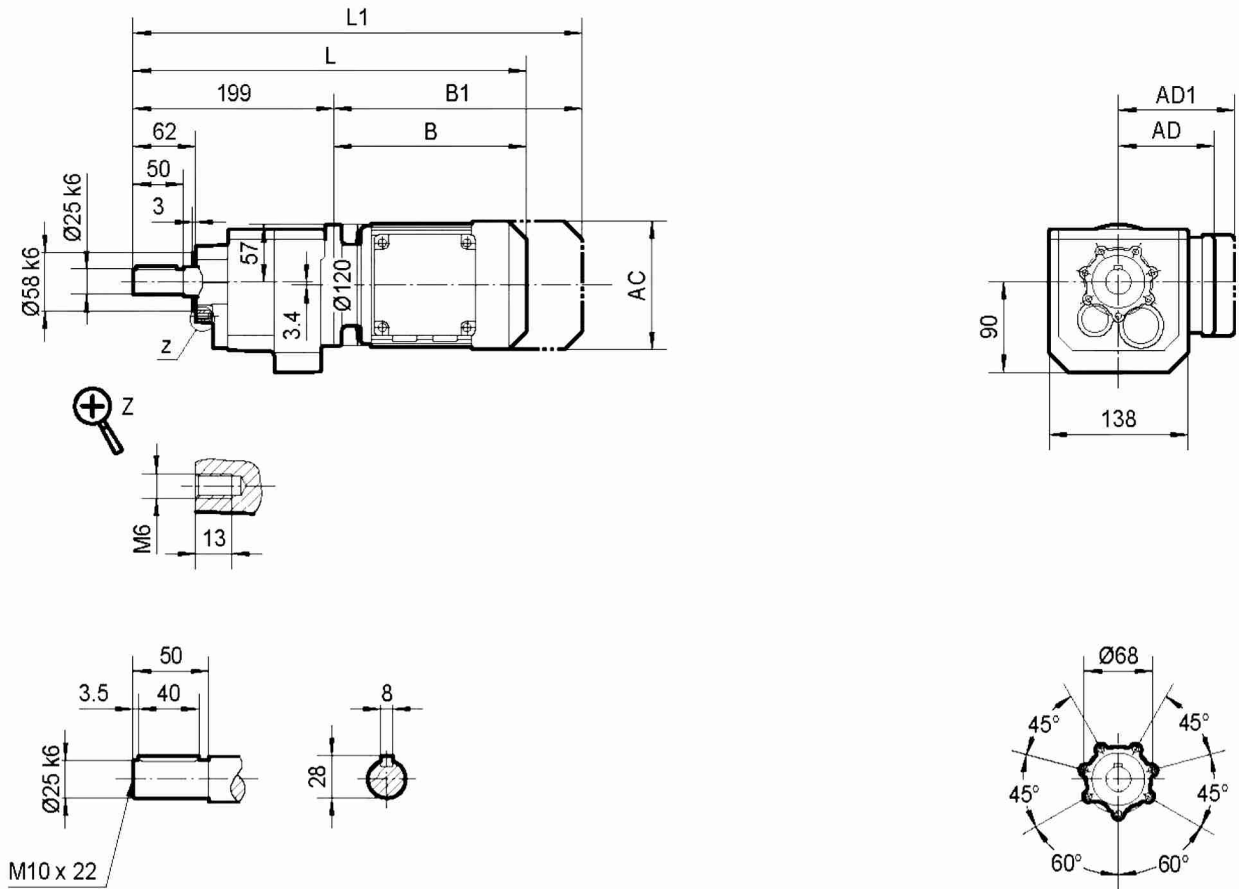
II
Ø140

III
Ø160



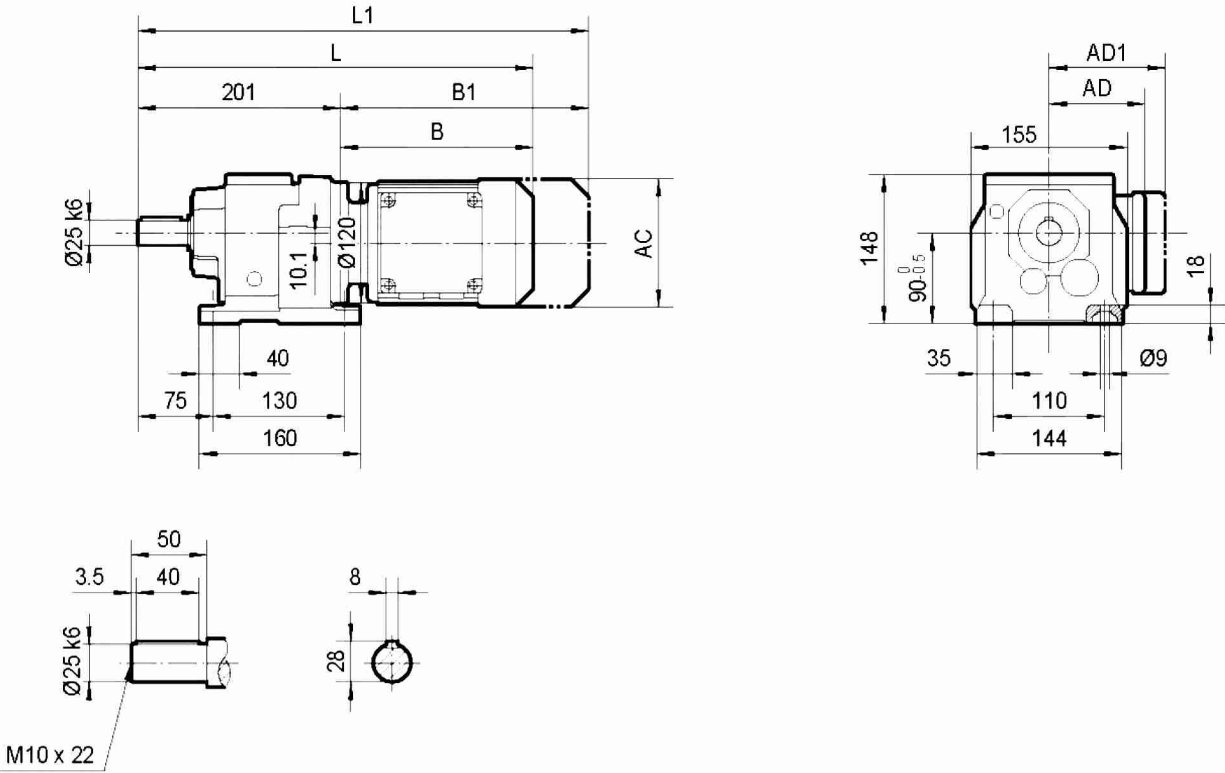
YDT	63..	71D	80..	90..	100M	100L				
AC	132	145	145	197	197	197				
AD	105	122	122	154	166	166				
AD1	105	127	127	161	166	166				
B	192	206	256	276	328	358				
B1	246	269	319	361	413	443				
L	391	405	455	475	527	557				
L1	445	468	518	560	612	642				

TRZ27..



YDT	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	192	206	256	276	328	358					
B1	246	269	319	361	413	443					
L	391	405	455	475	527	557					
L1	445	468	518	560	612	642					

TR37..

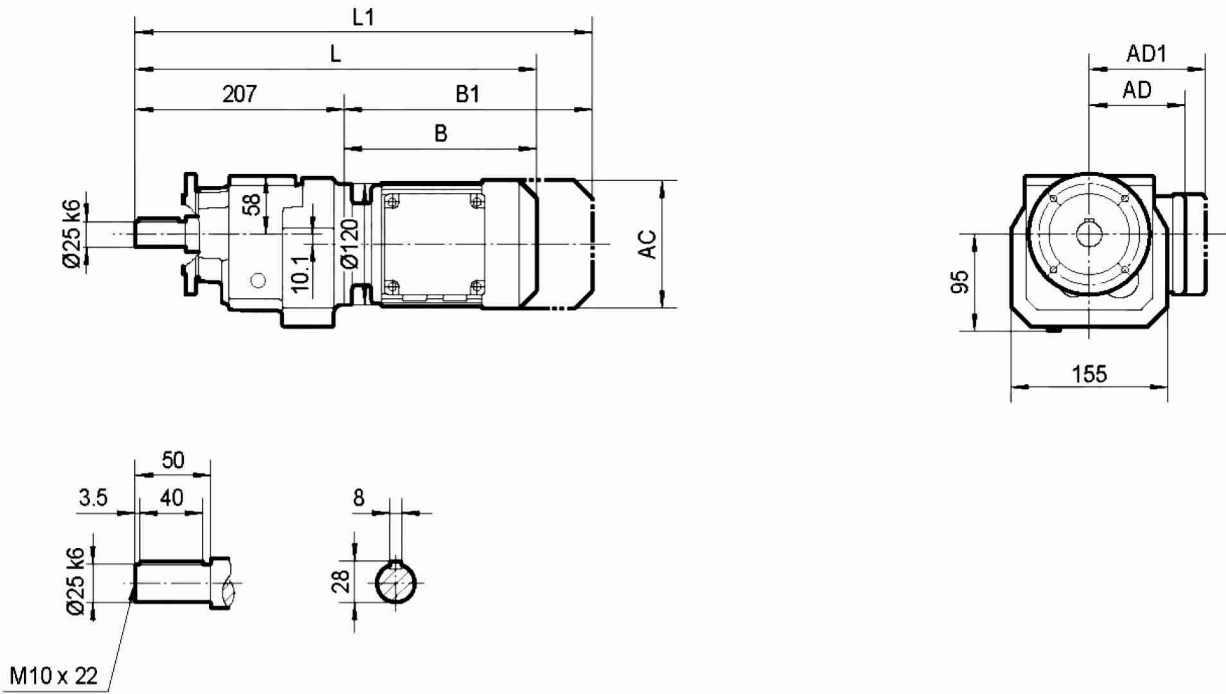


TR37F..

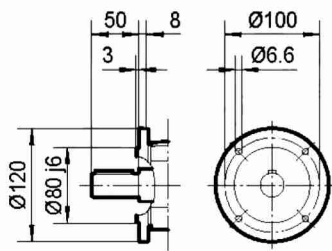


YDT	63..	71D	80..	90..	100M	100L					
AC	132	145	145	197	197	197					
AD	105	122	122	154	166	166					
AD1	105	127	127	161	166	166					
B	192	206	256	276	328	358					
B1	246	269	319	361	413	443					
L	393	407	457	477	529	559					
L1	447	470	520	562	614	644					

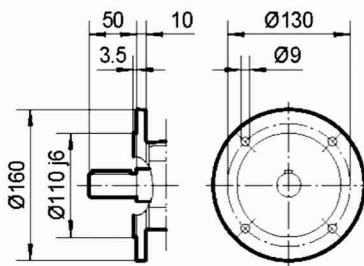
TRF37..



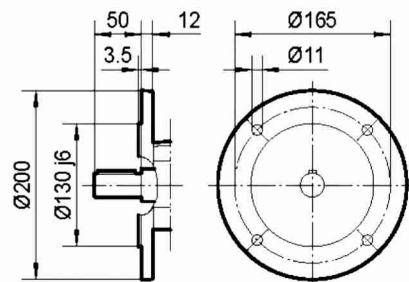
I
Ø120



II
Ø160

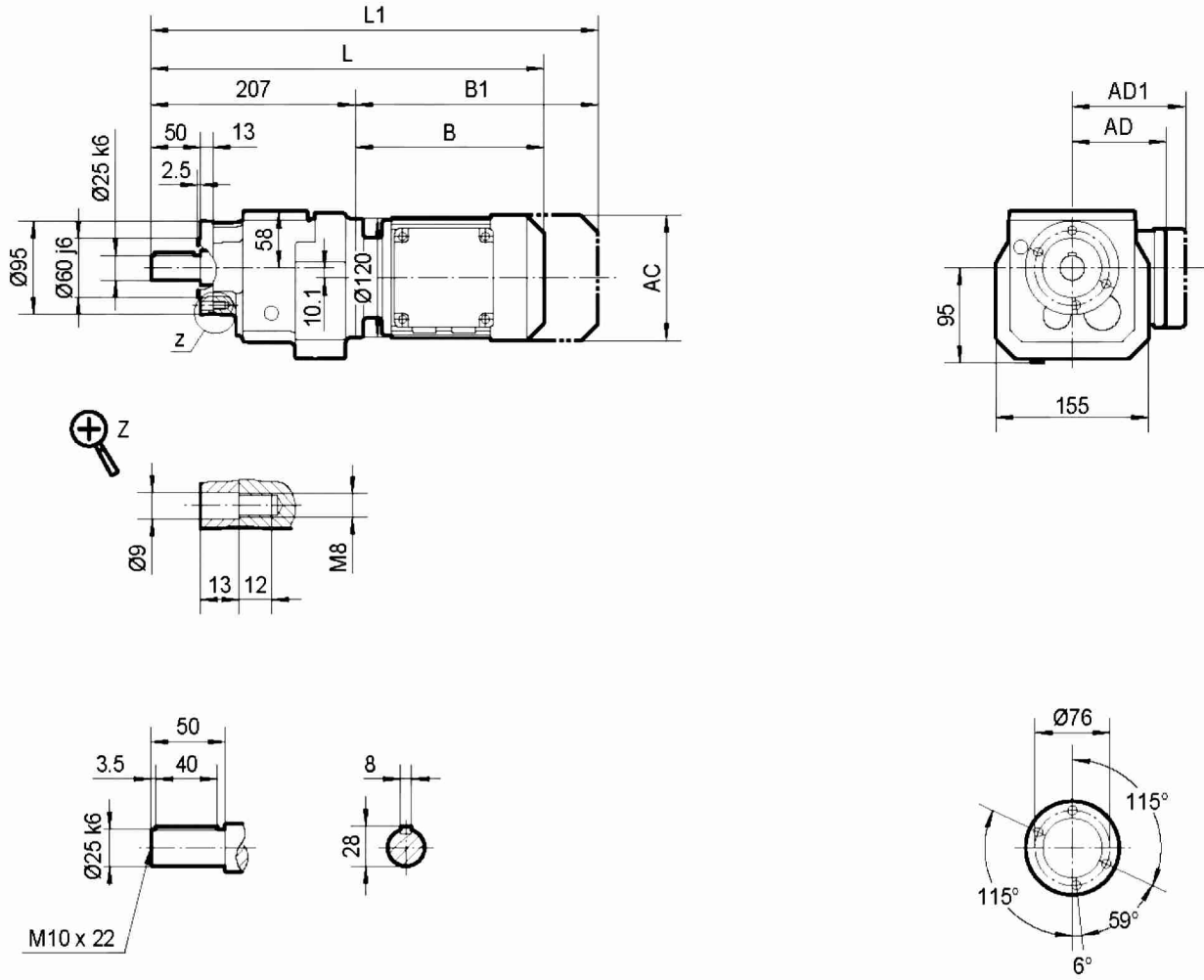


III
Ø200



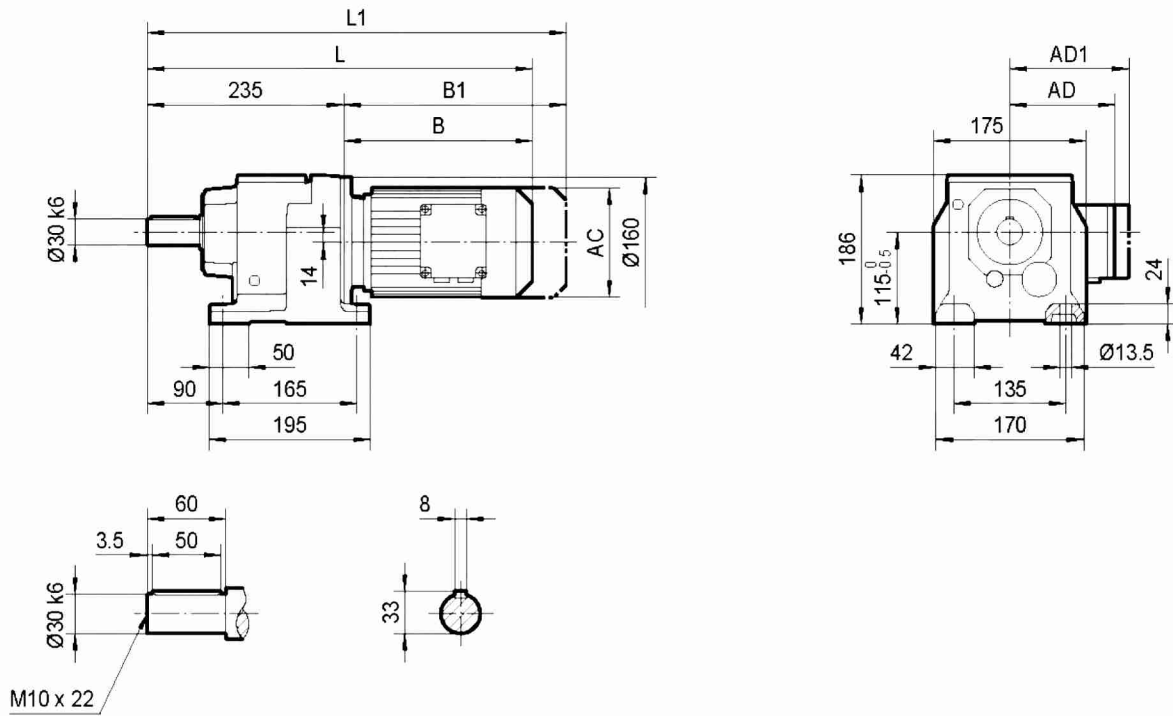
YDT	63..	71D	80..	90..	100M	100L					
AC	132	145	145	197	197	197					
AD	105	122	122	154	166	166					
AD1	105	127	127	161	166	166					
B	192	206	256	276	328	358					
B1	246	269	319	361	413	443					
L	399	413	463	483	535	565					
L1	453	476	526	568	620	650					

TRZ37..

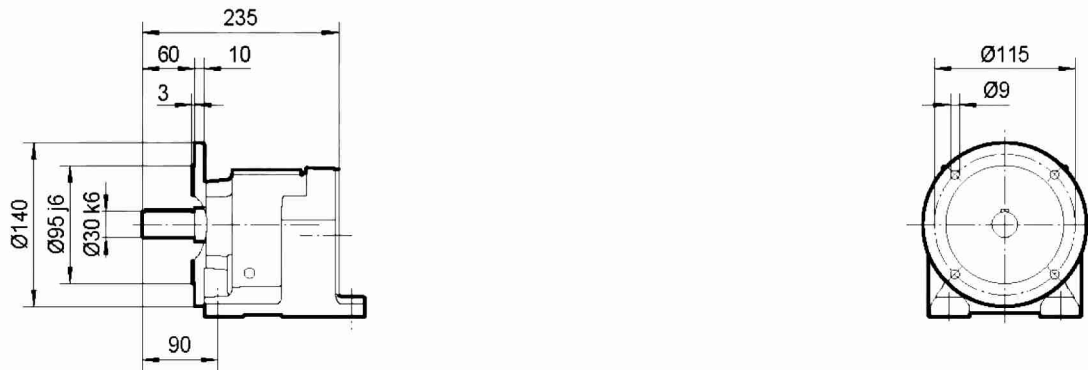


YDT	63..	71D	80..	90..	100M	100L					
AC	132	145	145	197	197	197					
AD	105	122	122	154	166	166					
AD1	105	127	127	161	166	166					
B	192	206	256	276	328	358					
B1	246	269	319	361	413	443					
L	399	413	463	483	535	565					
L1	453	476	526	568	620	650					

TR47..

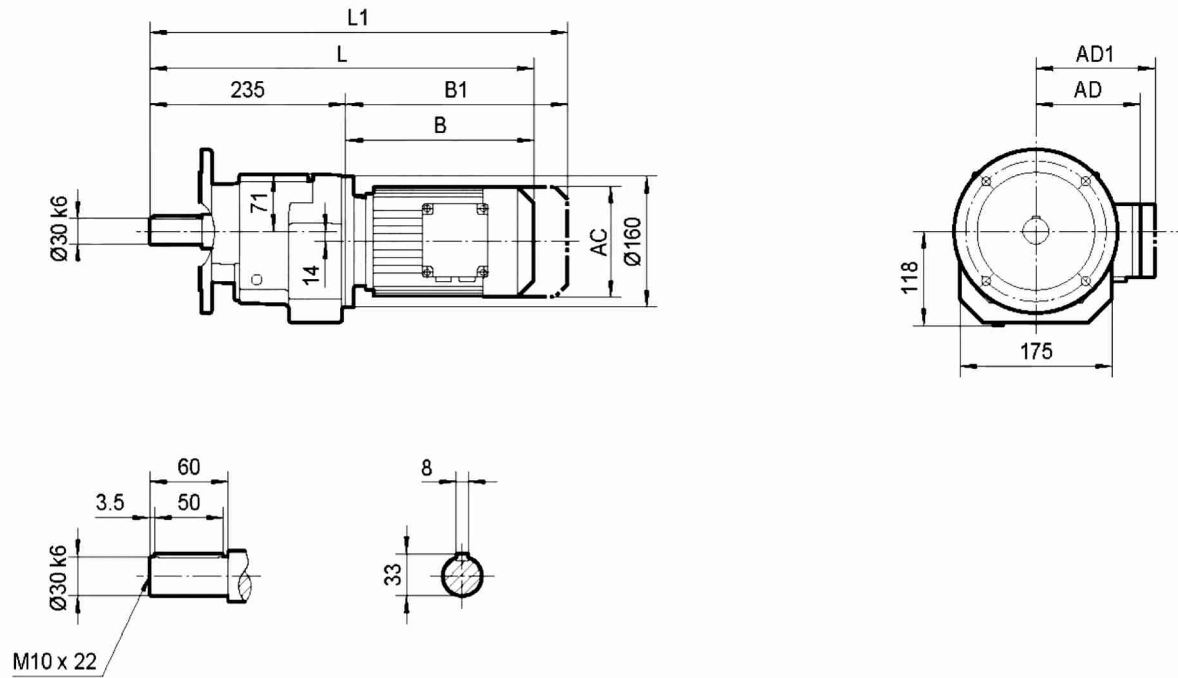


TR47F..

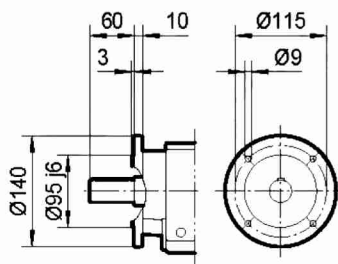


YDT	63..	71D	80..	90..	100M	100L	112M	132S			
AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	420	434	484	504	554	584	589	637			
L1	475	498	548	589	639	669	669	717			

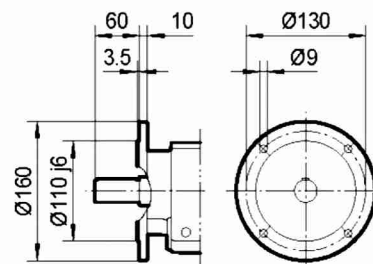
TRF47..



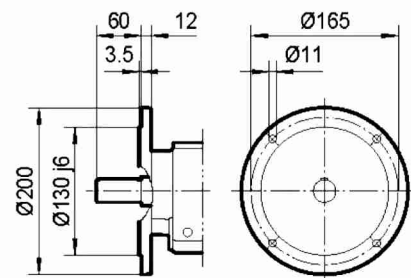
I
Ø140



II
Ø160

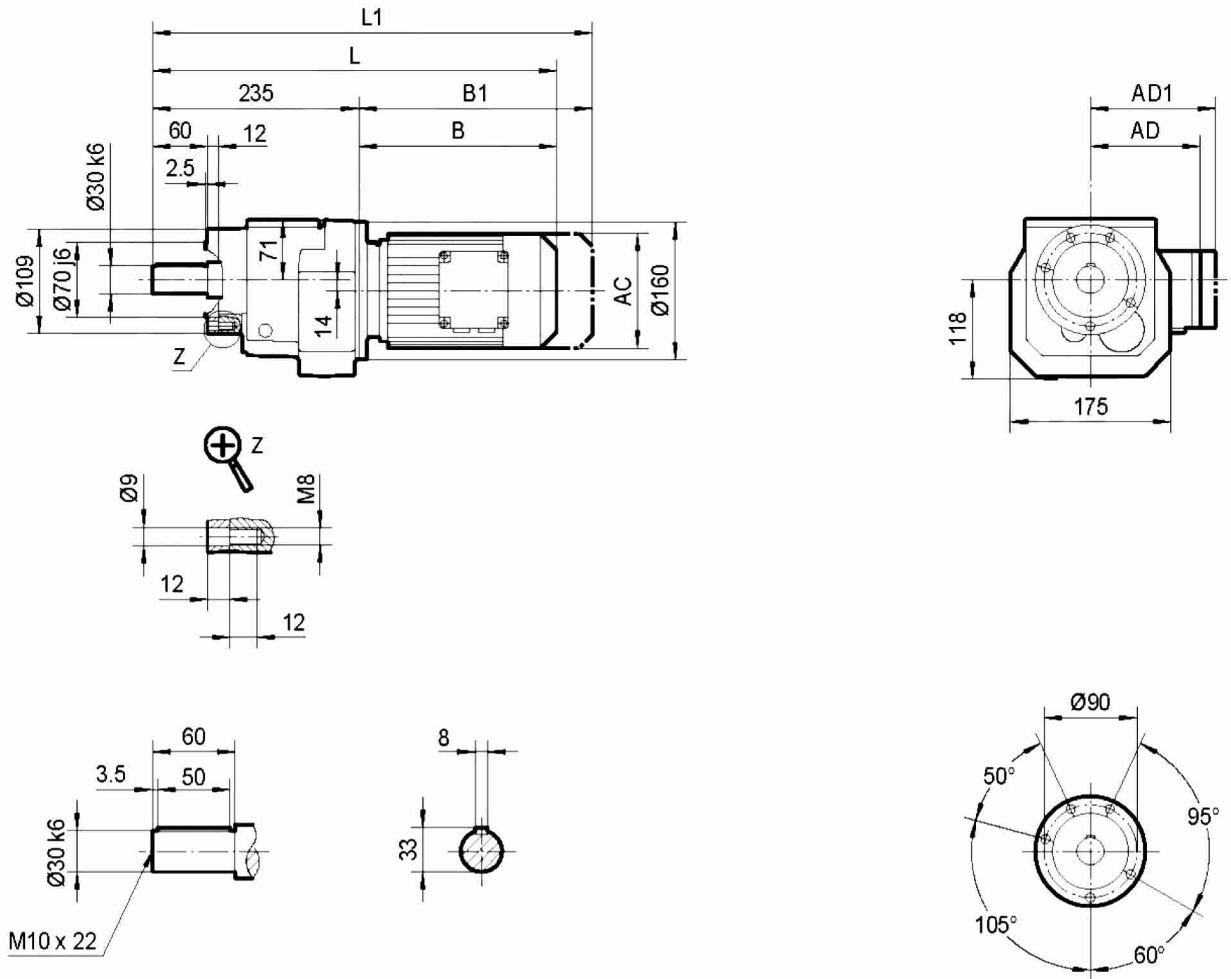


III
Ø200



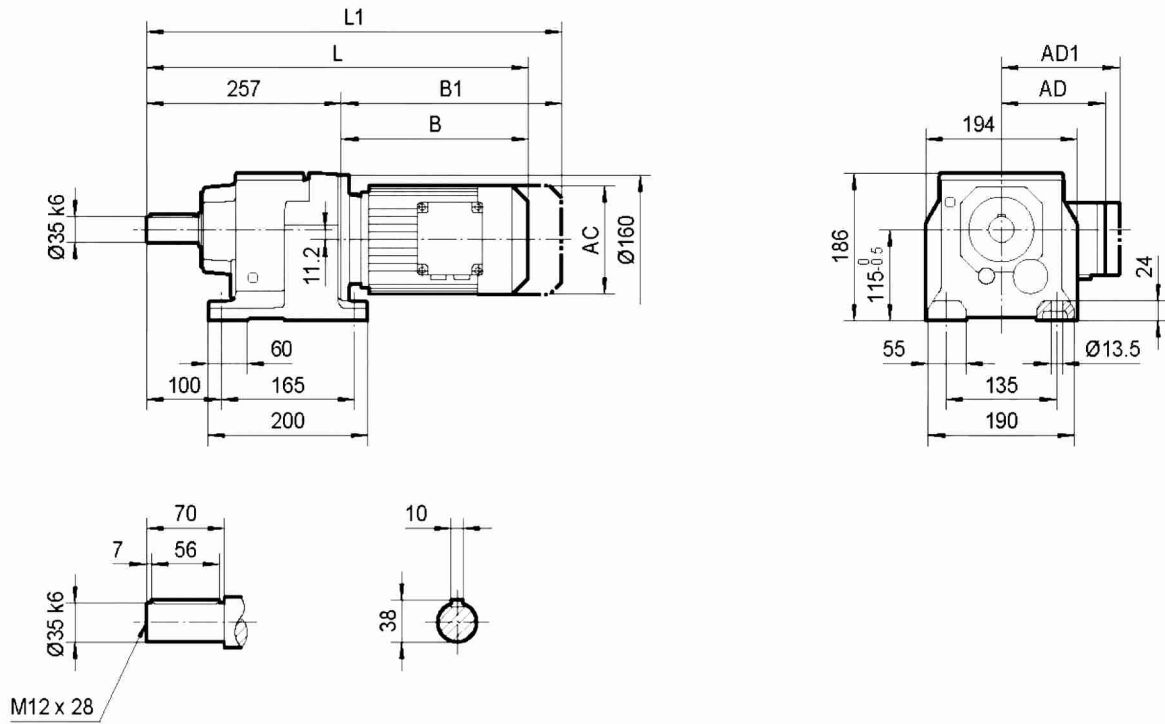
YDT	63..	71D	80..	90..	100M	100L	112M	132S			
AC	132	145	145	197	197	197	221	221			
AD	105	122	122	154	166	166	179	179			
AD1	105	127	127	161	166	166	182	182			
B	185	199	249	269	319	349	354	402			
B1	240	263	313	354	404	434	434	482			
L	420	434	484	504	554	584	589	637			
L1	475	498	548	589	639	669	669	717			

TRZ47..



YDT	63..	71D	80..	90..	100M	100L	112M	132S			
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	420	434	484	504	554	584	589	637			
L1	475	498	548	589	639	669	669	717			

TR57..

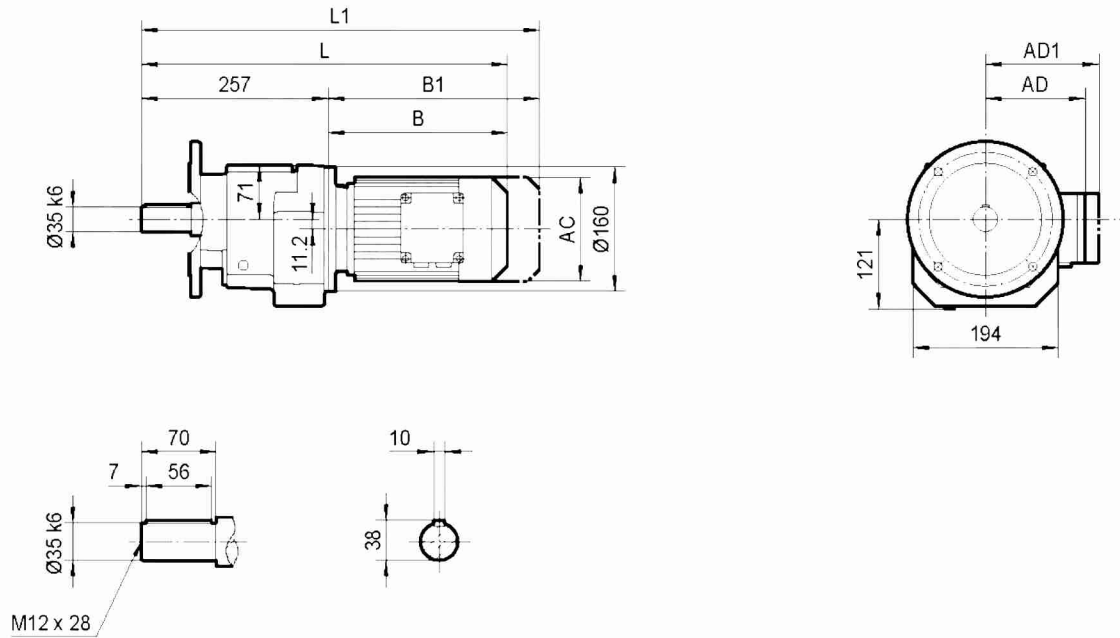


TR57F..



YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	442	456	506	526	576	606	611	659	681		
L1	497	520	570	611	661	691	691	793	793		

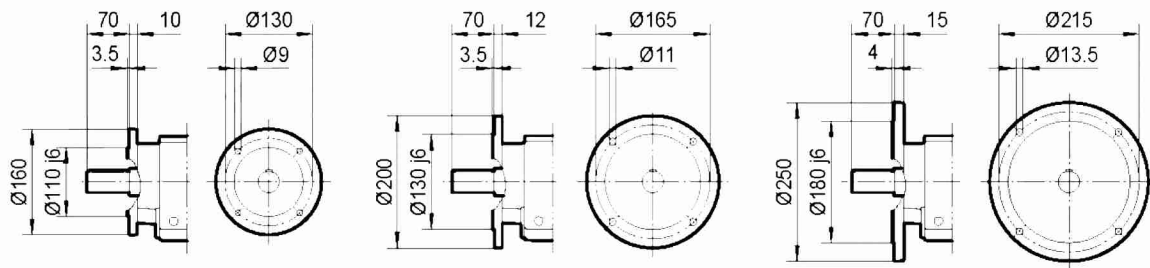
TRF57..



I
Ø160

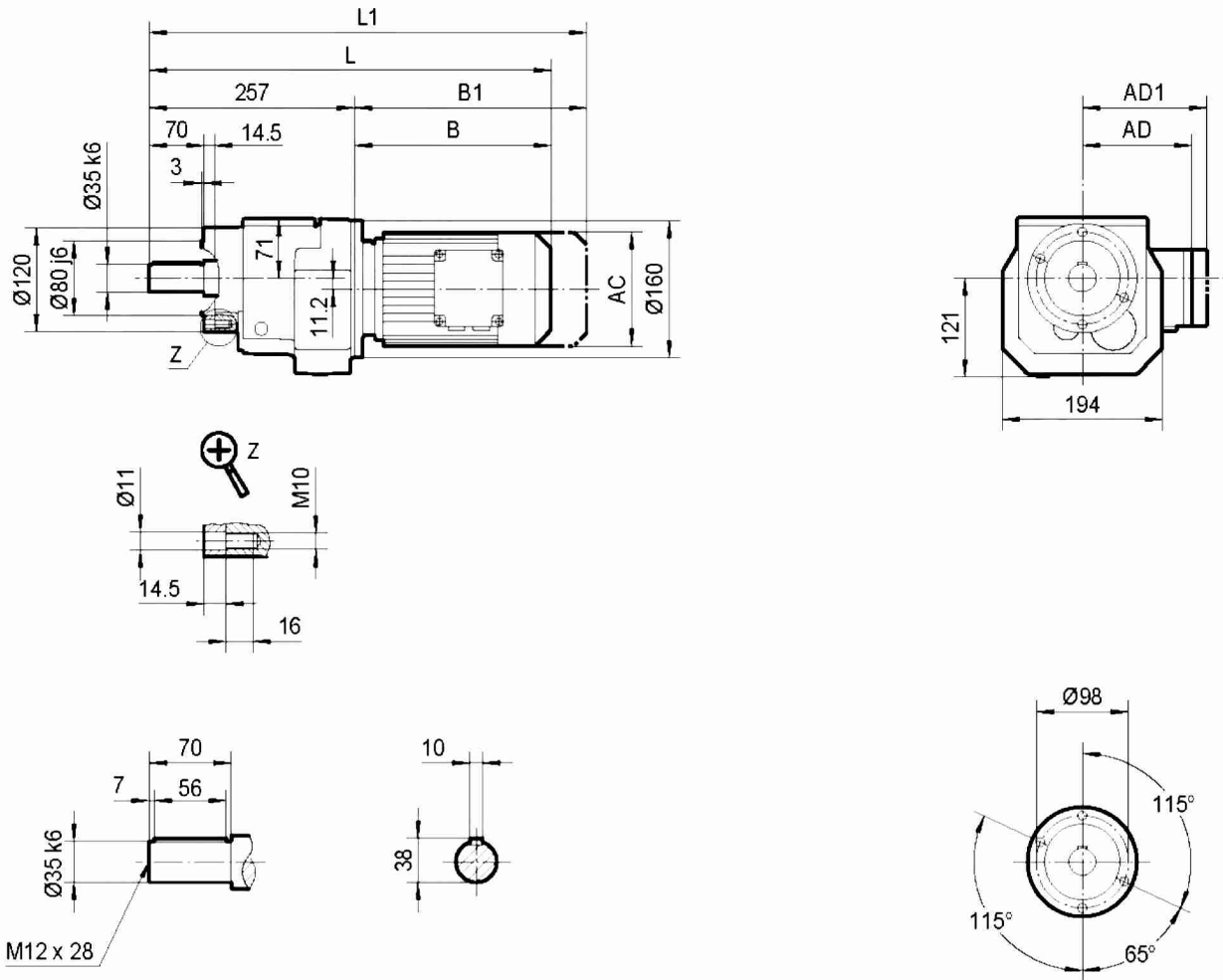
II
Ø200

III
Ø250



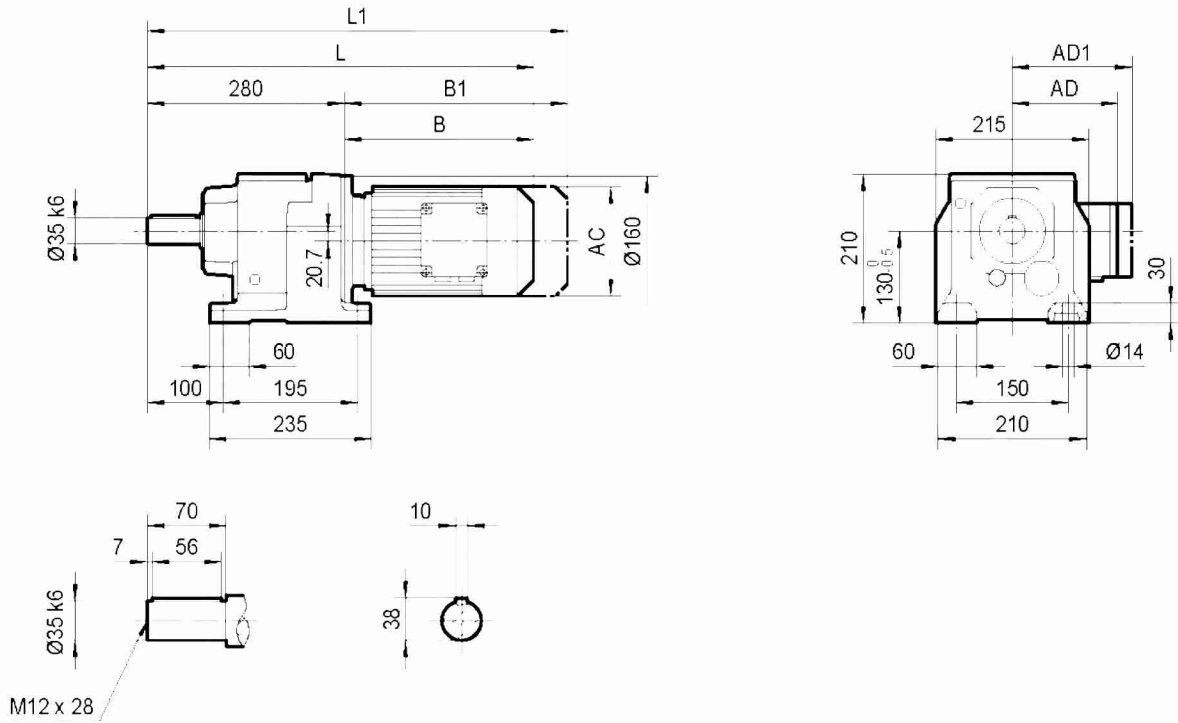
YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	442	456	506	526	576	606	611	659	681		
L1	497	520	570	611	661	691	691	793	793		

TRZ57..



YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	442	456	506	526	576	606	611	659	681		
L1	497	520	570	611	661	691	691	793	793		

TR67..

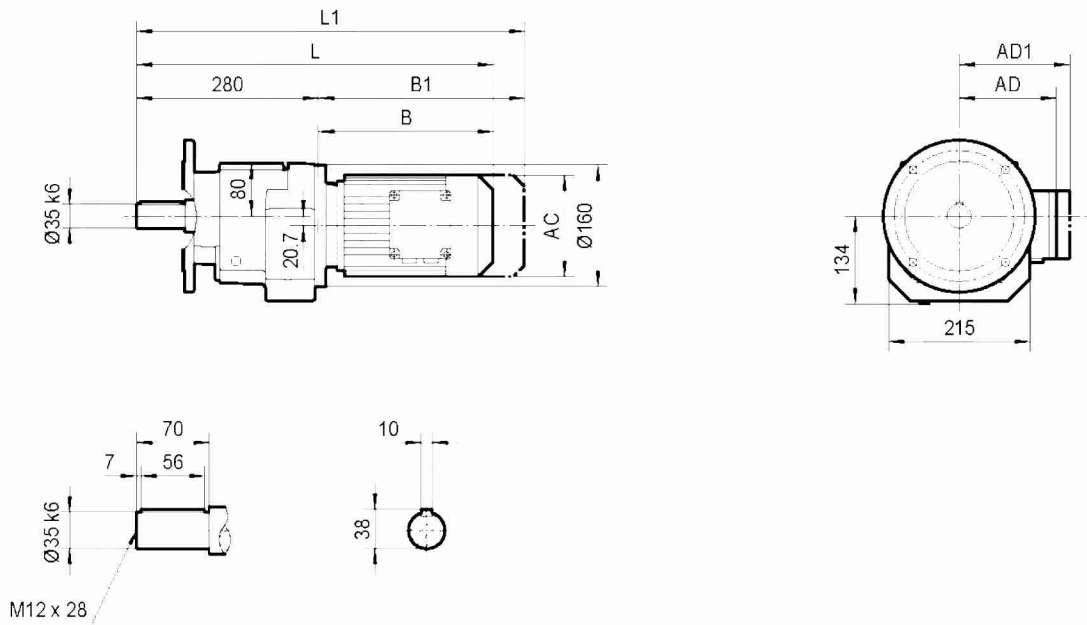


TR67F..

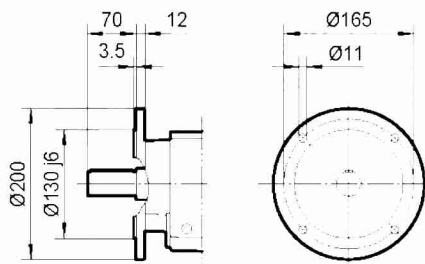


YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	465	479	529	549	599	629	634	682	704		
L1	520	543	593	634	684	714	714	762	816		

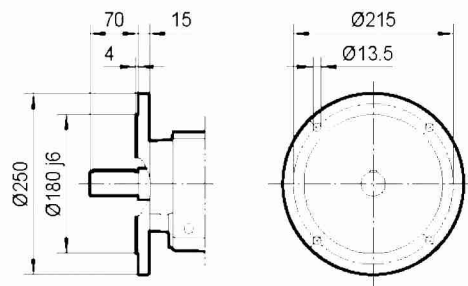
TRF67..



I
Ø200

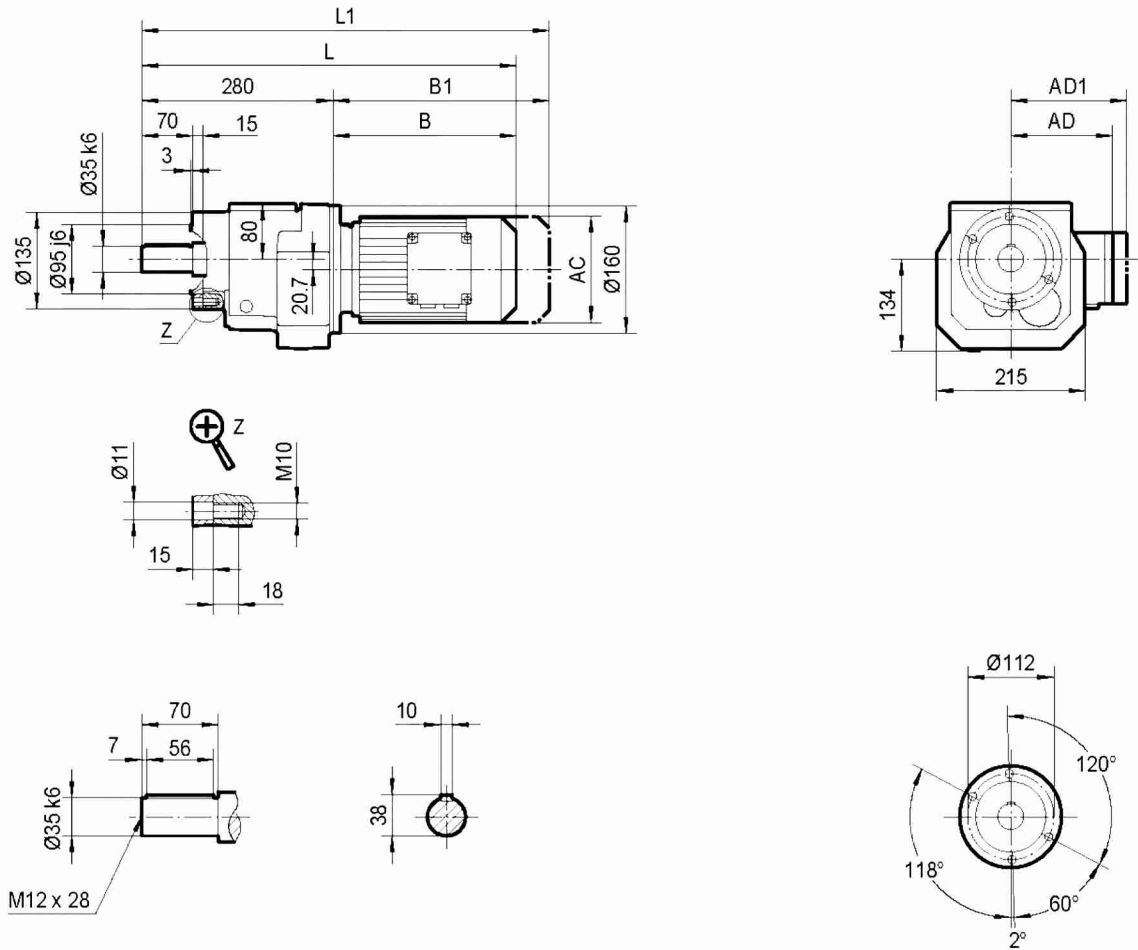


II
Ø250



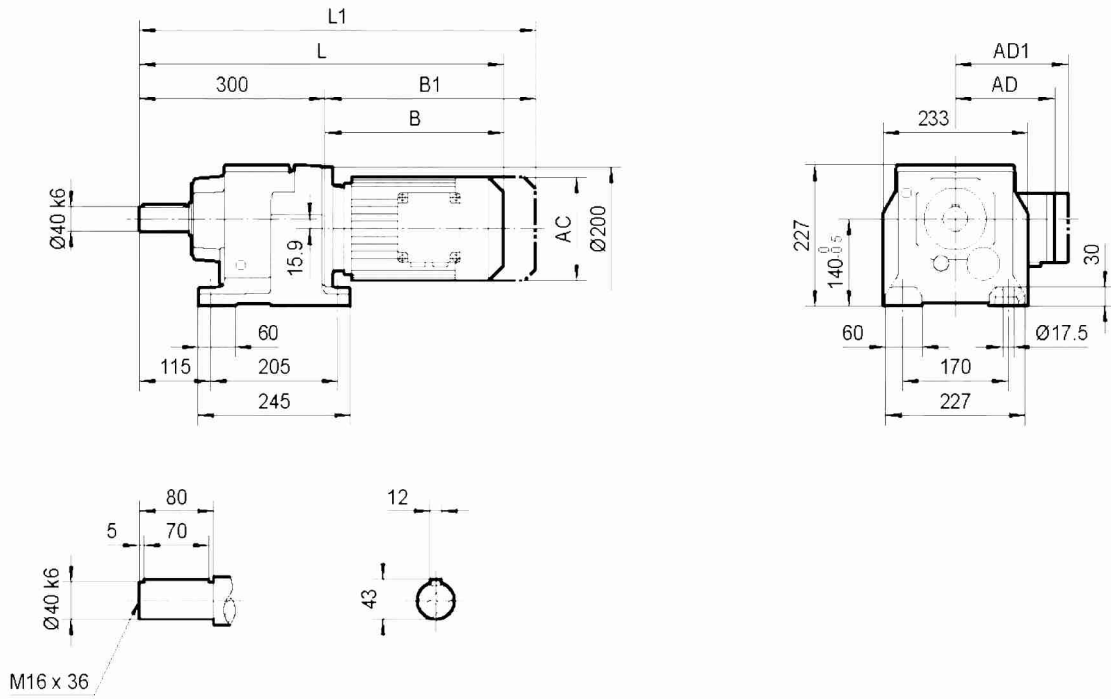
YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	465	479	529	549	599	629	634	682	704		
L1	520	543	593	634	684	714	714	762	816		

TRZ67..



YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M		
AC	132	145	145	197	197	197	221	221	275		
AD	105	122	122	154	166	166	179	179	230		
AD1	105	127	127	161	166	166	182	182	230		
B	185	199	249	269	319	349	354	402	424		
B1	240	263	313	354	404	434	434	482	536		
L	465	479	529	549	599	629	634	682	704		
L1	520	543	593	634	684	714	714	762	816		

TR77..

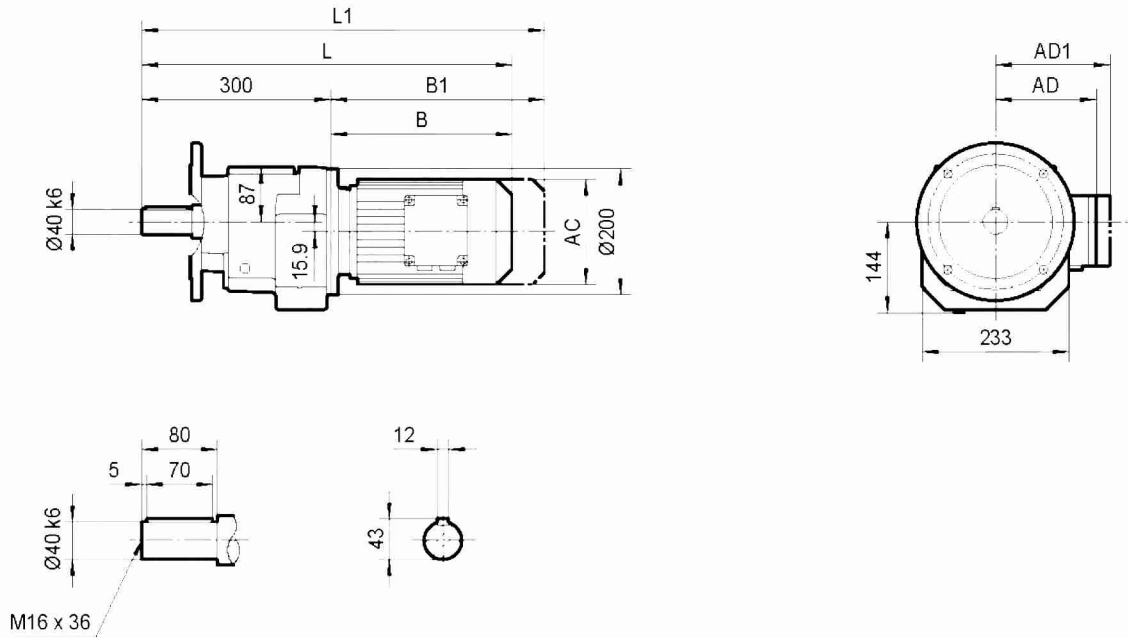


TR77F..

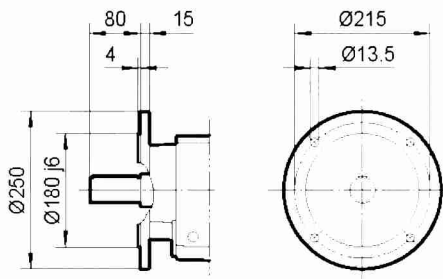


YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M	132ML	160M
AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	584	584
L	479	493	543	561	611	641	645	690	712	772	772
L1	534	557	607	646	696	726	725	770	824	884	884

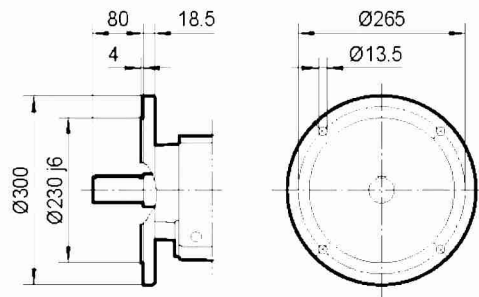
TRF77..



I
Ø250

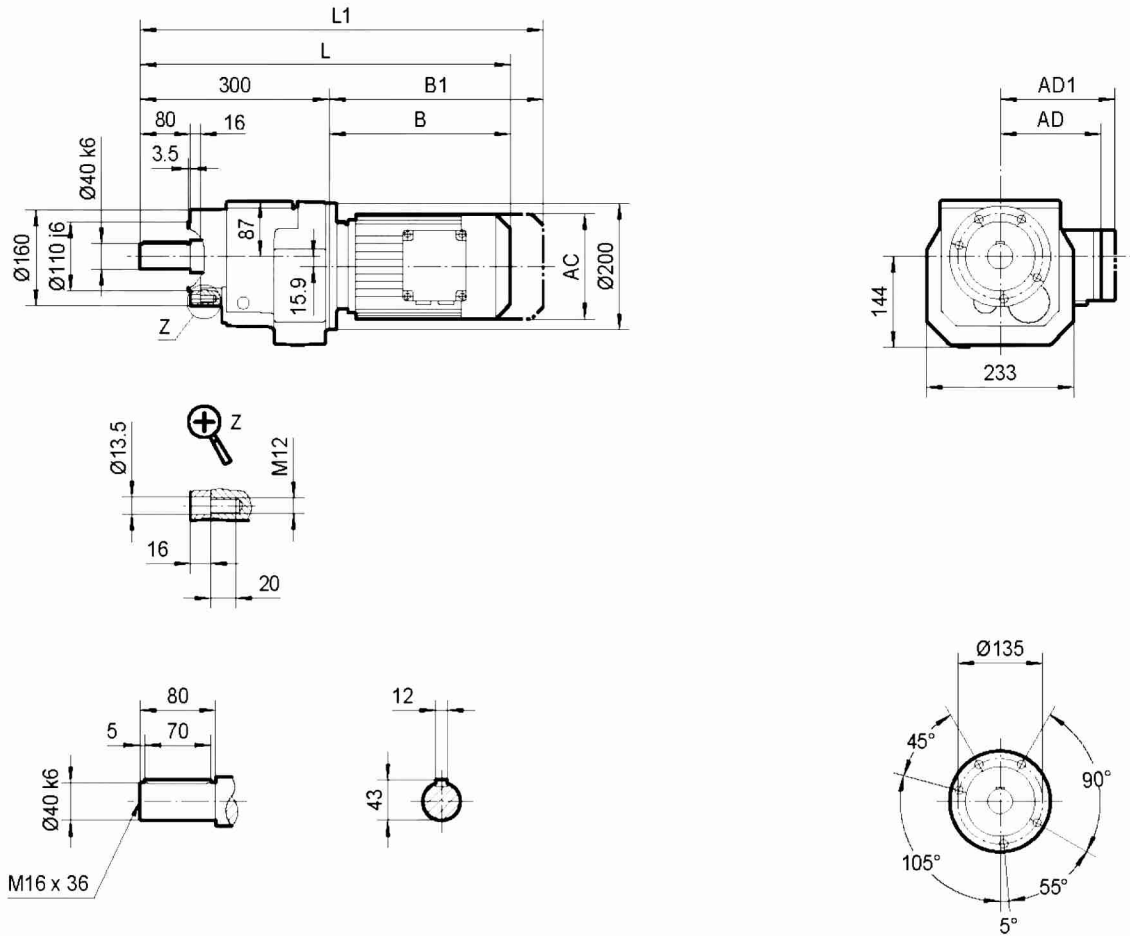


II
Ø300



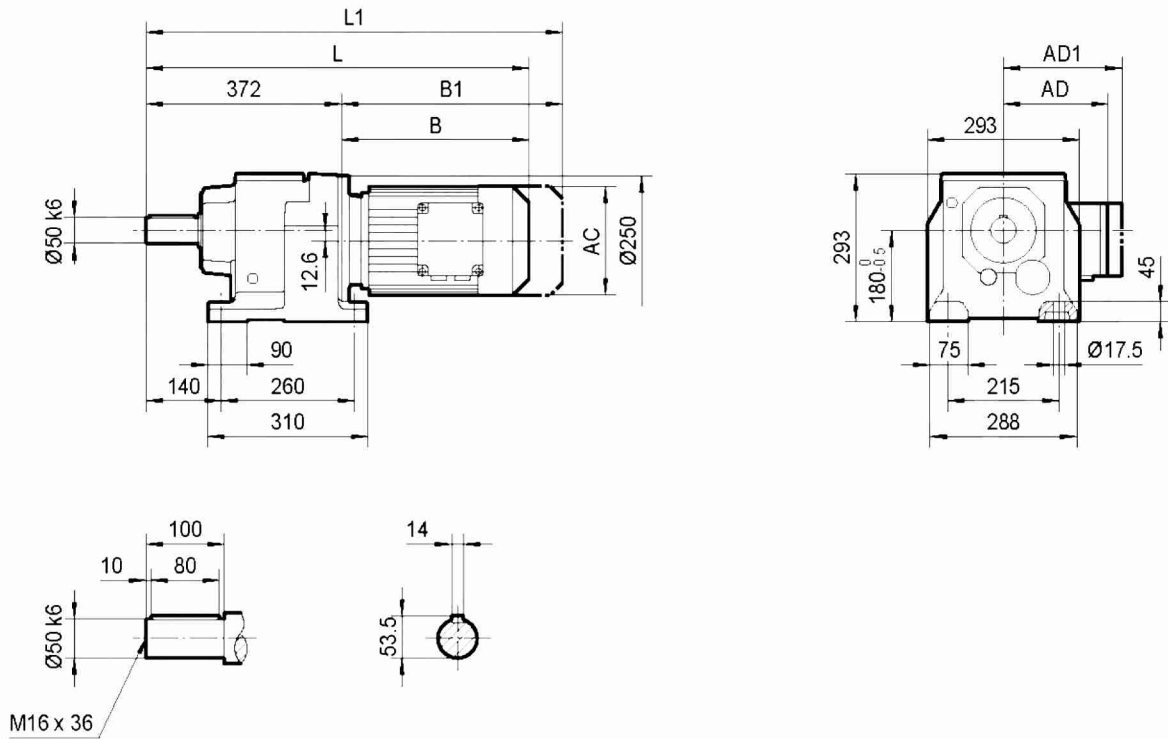
YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M	132ML	160M
AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	584	584
L	479	493	543	561	611	641	645	690	712	772	772
L1	534	557	607	646	696	726	725	770	824	884	884

TRZ77..

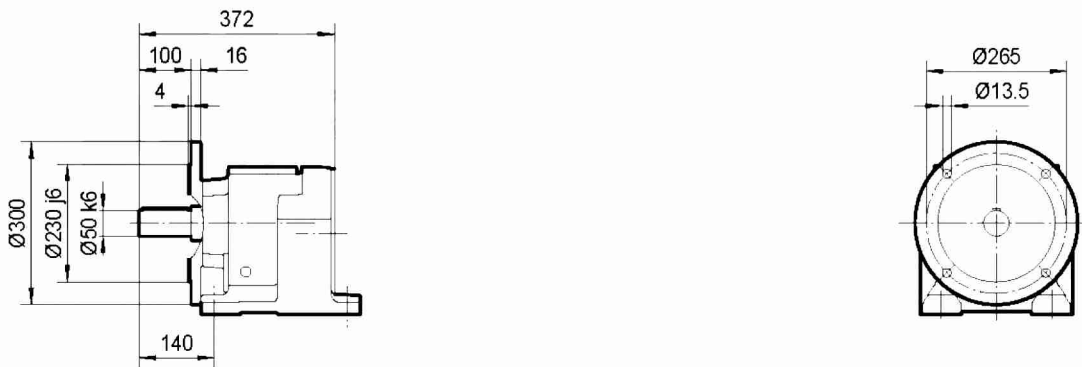


YDT	63..	71D	80..	90..	100M	100L	112M	132S	132M	132ML	160M
AC	132	145	145	197	197	197	221	221	275	275	275
AD	105	122	122	154	166	166	179	179	230	230	230
AD1	105	127	127	161	166	166	182	182	230	230	230
B	179	193	243	261	311	341	345	390	412	472	472
B1	234	257	307	346	396	426	425	470	524	584	584
L	479	493	543	561	611	641	645	690	712	772	772
L1	534	557	607	646	696	726	725	770	824	884	884

TR87..

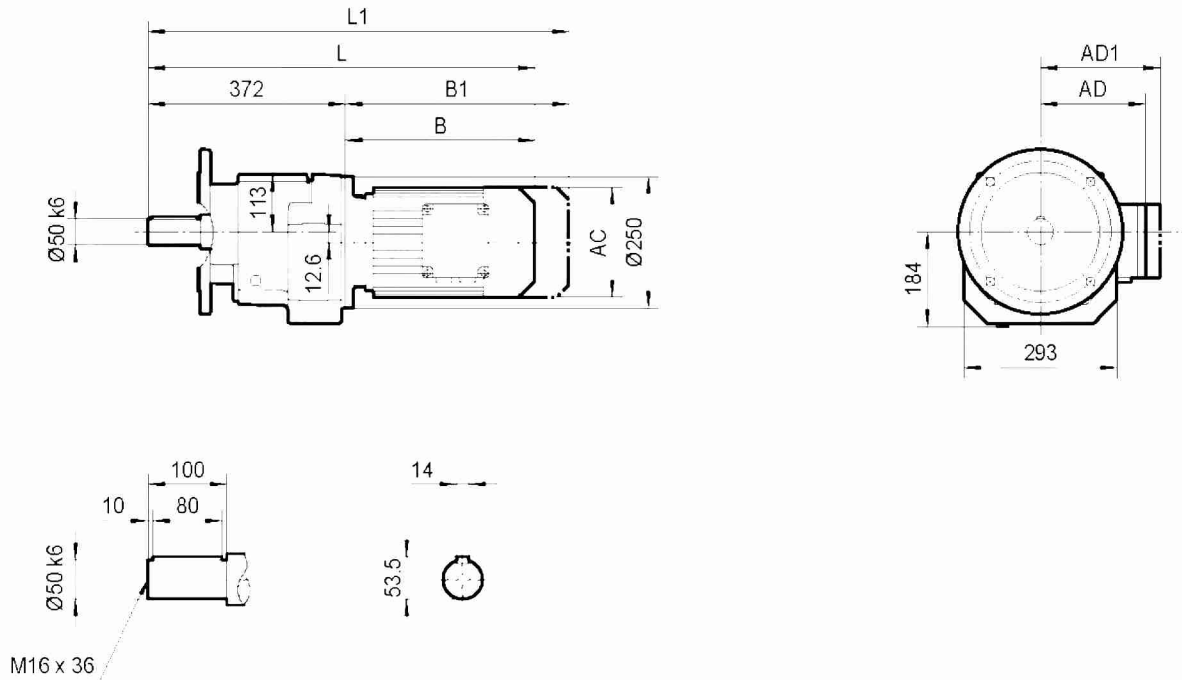


TR87F..

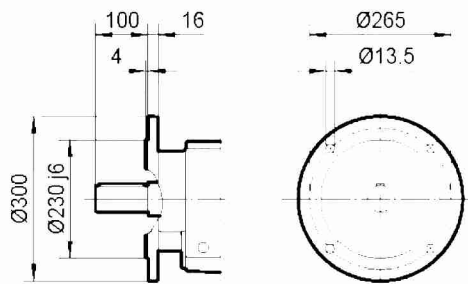


YDT	80..	90..	100M	100L	112M	132S	132M	132ML	160M	160L	180..
AC	145	197	197	197	221	221	275	275	275	275	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	610	629	679	709	712	757	779	839	839	886	958
L1	674	714	764	794	792	837	891	951	951	1042	1114

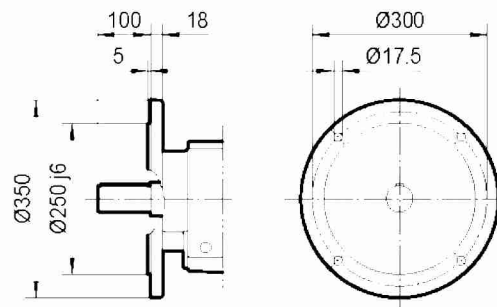
TRF87..



**I
Ø300**

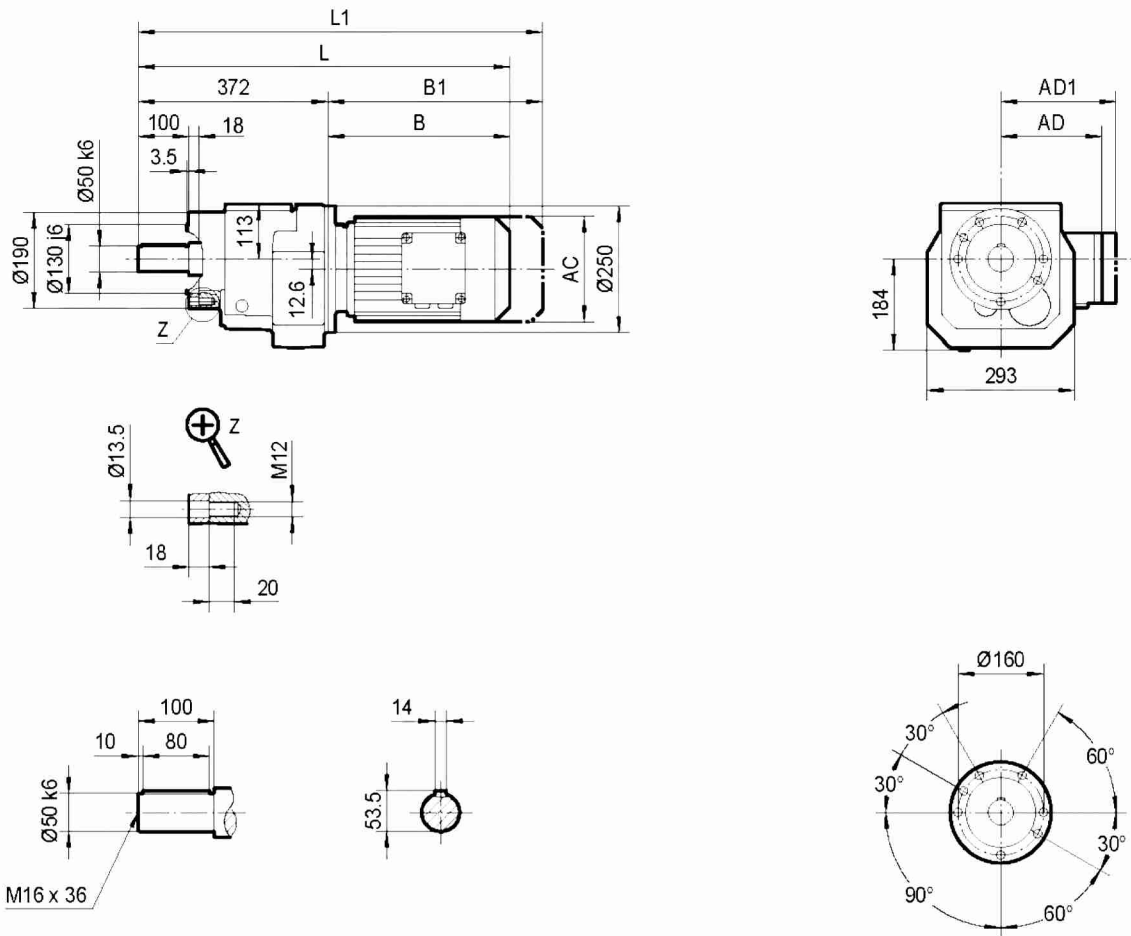


**II
Ø350**



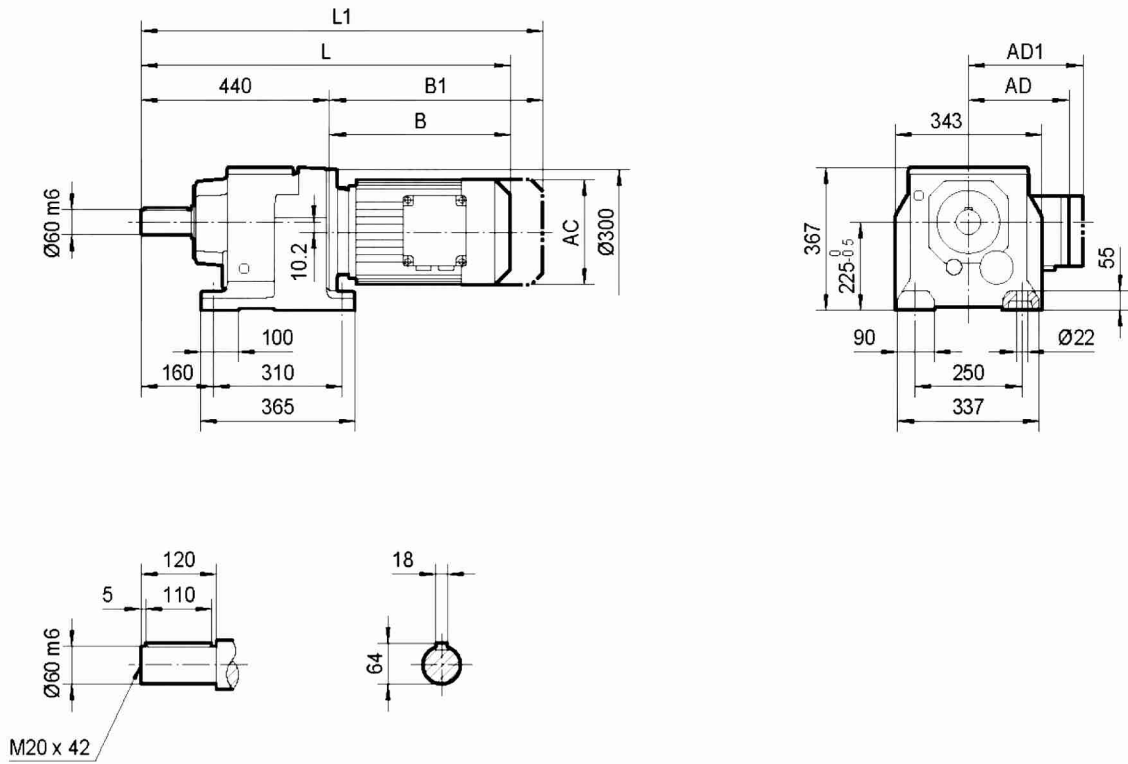
YDT	80..	90..	100M	100L	112M	132S	132M	132ML	160M	160L	180..
AC	145	197	197	197	221	221	275	275	275	275	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	610	629	679	709	712	757	779	839	839	886	958
L1	674	714	764	794	792	837	891	951	951	1042	1114

TRZ87..



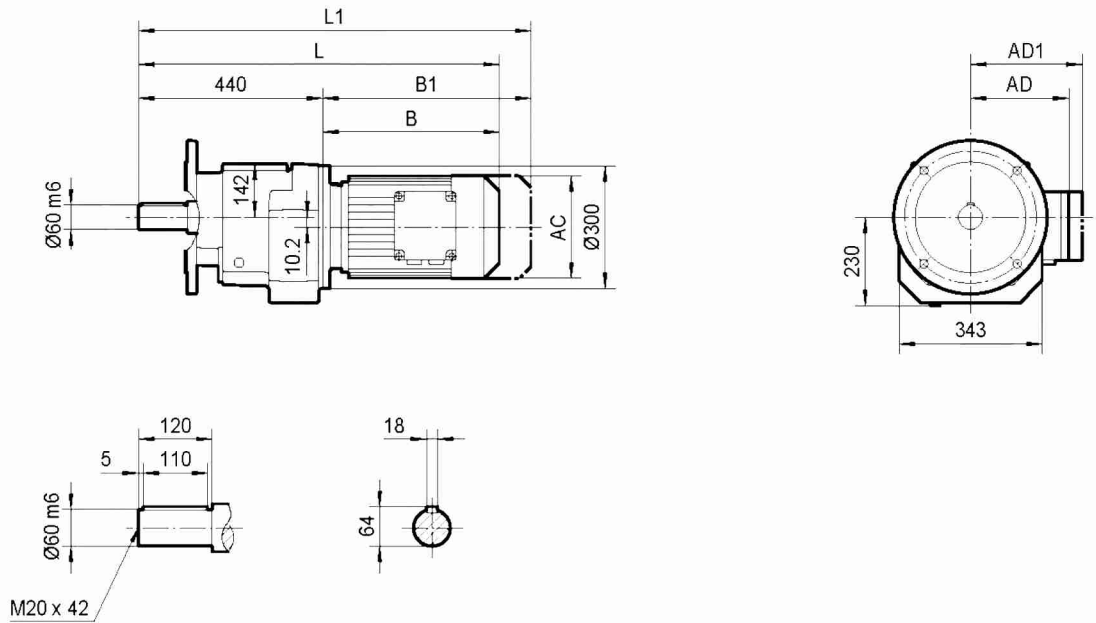
YDT	80..	90..	100M	100L	112M	132S	132M	132ML	160M	160L	180..
AC	145	197	197	197	221	221	275	275	275	275	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	610	629	679	709	712	757	779	839	839	886	958
L1	674	714	764	794	792	837	891	951	951	1042	1114

TR97..

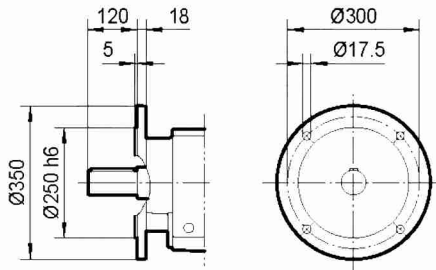


YDT	80..	90..	100M	100L	112M	132S	132M	132ML	160M	160L	180..	200..
AC	145	197	197	197	221	221	275	275	275	331	331	394
AD	122	154	166	166	179	179	230	230	230	258	258	285
AD1	127	161	166	166	182	182	230	230	230	258	258	285
B	231	251	301	331	335	380	402	462	462	509	581	629
B1	295	336	386	416	415	460	514	574	574	665	737	785
L	671	691	741	771	775	820	842	902	902	949	1021	1069
L1	635	776	826	856	855	900	954	1014	1014	1105	1177	1225

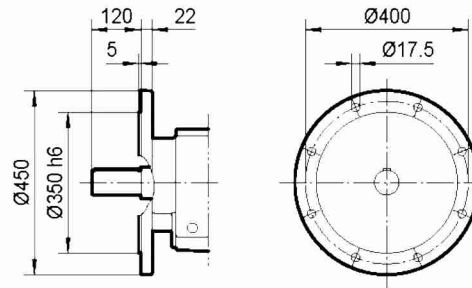
TRF97..



**I
Ø350**

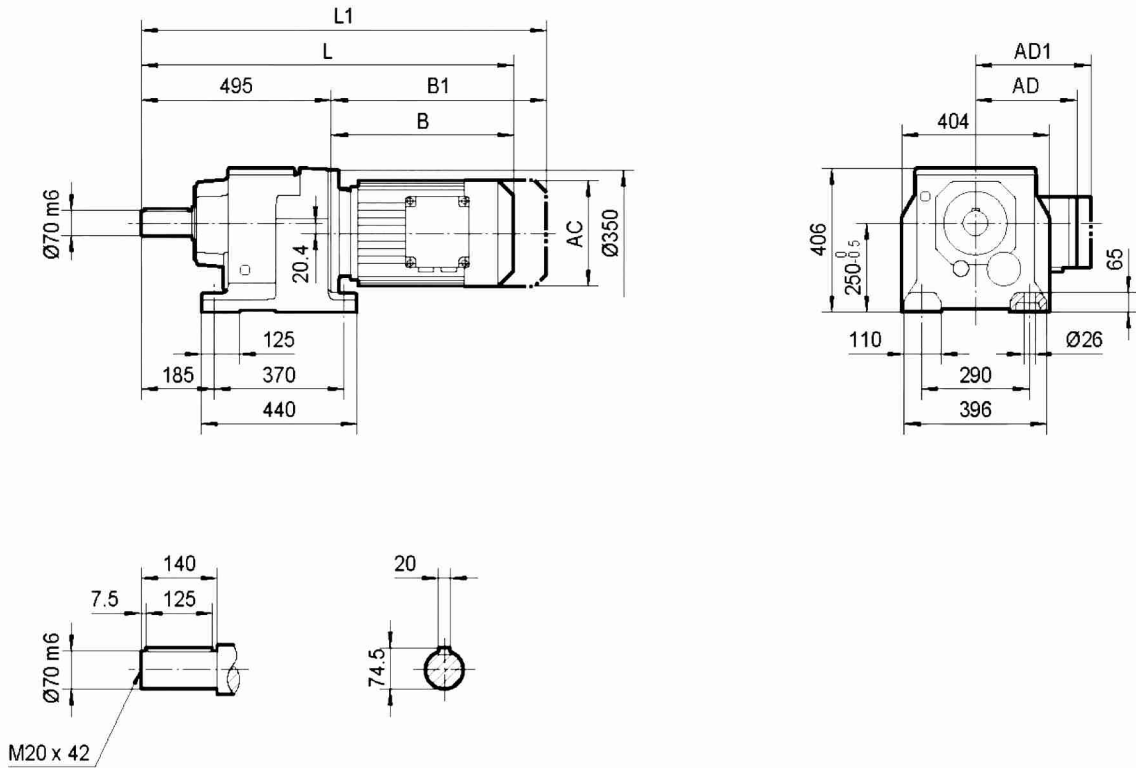


**II
Ø450**



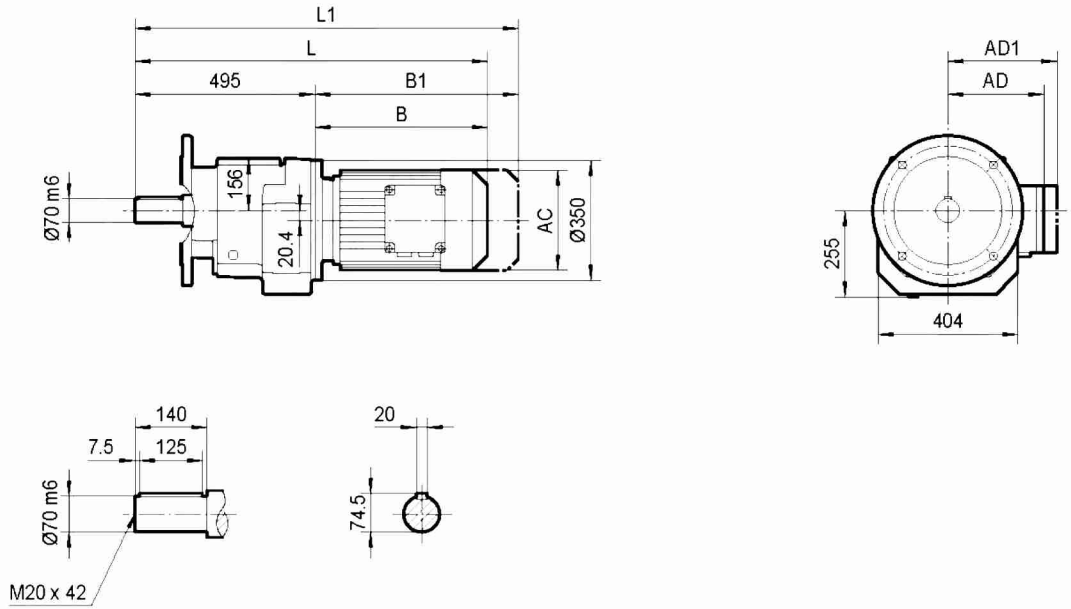
YDT	80..	90..	100M	100L	112M	132S	132M	132ML	160M	160L	180..	200..
AC	145	197	197	197	221	221	275	275	275	331	331	394
AD	122	154	166	166	179	179	230	230	230	258	258	285
AD1	127	161	166	166	182	182	230	230	230	258	258	285
B	231	251	301	331	335	380	402	462	462	509	581	629
B1	295	336	386	416	415	460	514	574	574	665	737	785
L	671	691	741	771	775	820	842	902	902	949	1021	1069
L1	635	776	826	856	855	900	954	1014	1014	1105	1177	1225

TR107..



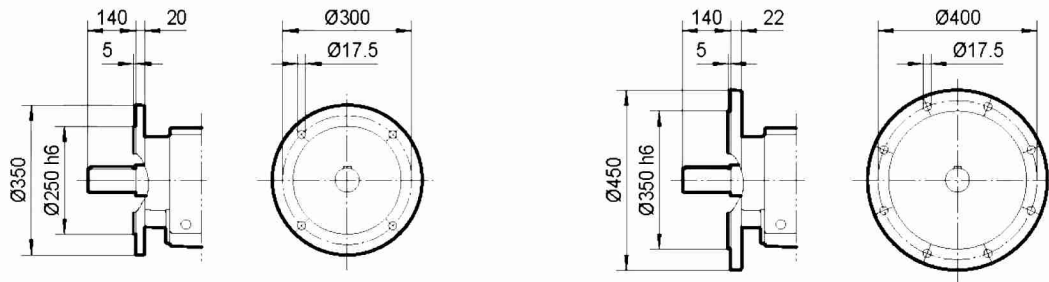
YDT	100M	100L	112M	132S	132M	132ML	160M	160L	180..	200..	225..
AC	197	197	221	221	275	275	275	331	331	394	394
AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	569	731	779	861
L	790	820	824	869	891	951	951	998	1070	1118	1200
L1	875	905	904	949	1003	1063	1063	1154	1226	1274	1356

TRF107..



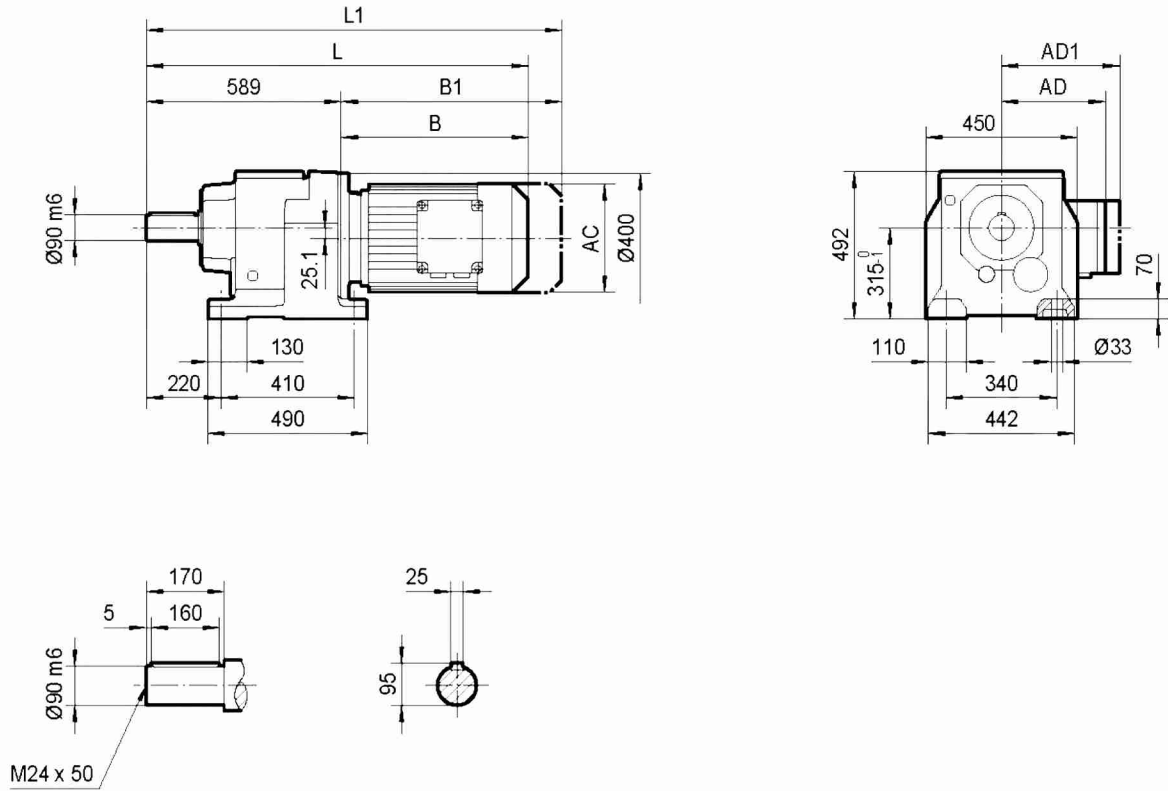
I
Ø350

II
Ø450



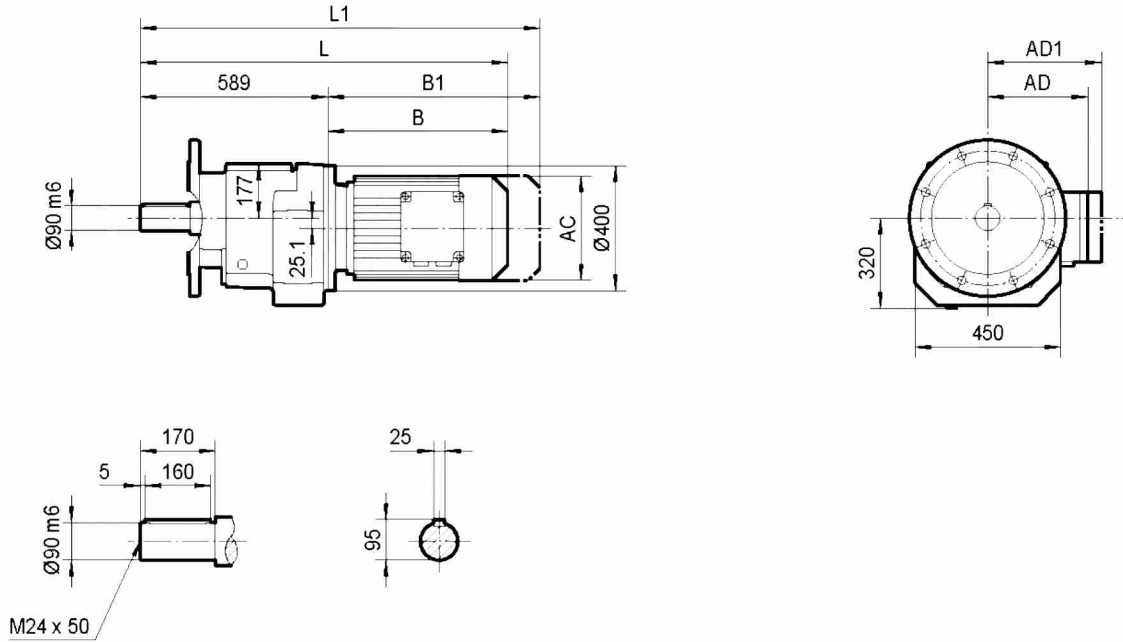
YDT	100M	100L	112M	132S	132M	132ML	160M	160L	180..	200..	225..
AC	197	197	221	221	275	275	275	331	331	394	394
AD	166	166	179	179	230	230	230	258	258	285	289
AD1	166	166	182	182	230	230	230	258	258	285	289
B	295	325	329	374	396	456	456	503	575	623	705
B1	380	410	409	454	508	568	568	569	731	779	861
L	790	820	824	869	891	951	951	998	1070	1118	1200
L1	875	905	904	949	1003	1063	1063	1154	1226	1274	1356

TR137..

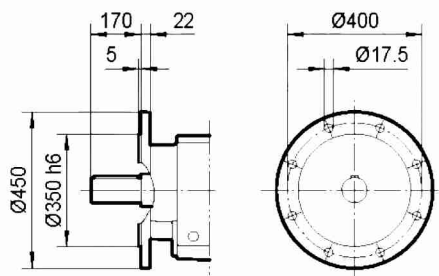


YDT	132S	132M	132ML	160M	160L	180..	200..	225..	250..		
AC	221	275	275	275	331	331	394	394	510		
AD	179	230	230	230	258	258	285	289	397		
AD1	182	230	230	230	258	258	285	289	397		
B	367	389	449	449	496	568	616	698	789		
B1	447	501	561	561	652	724	772	854	974		
L	956	978	1038	1038	1085	1157	1205	1287	1378		
L1	1036	1090	1150	1150	1241	1313	1361	1443	1563		

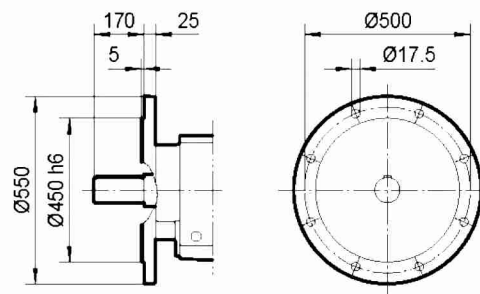
TRF137..



I
Ø450

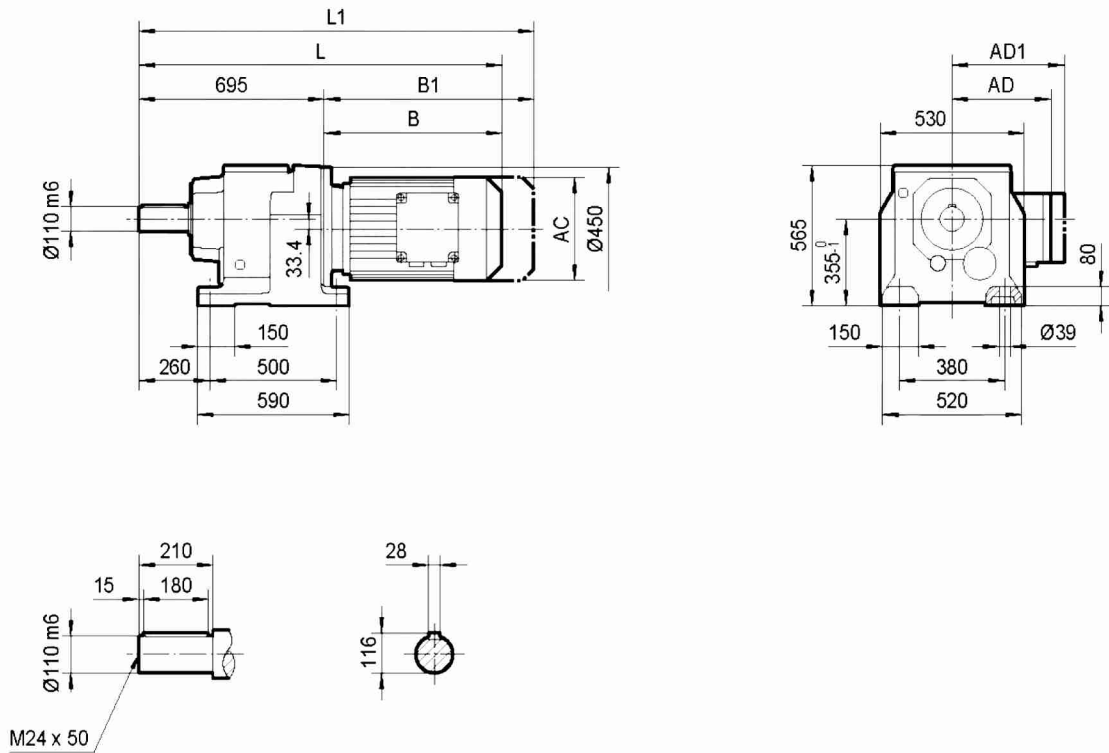


II
Ø550



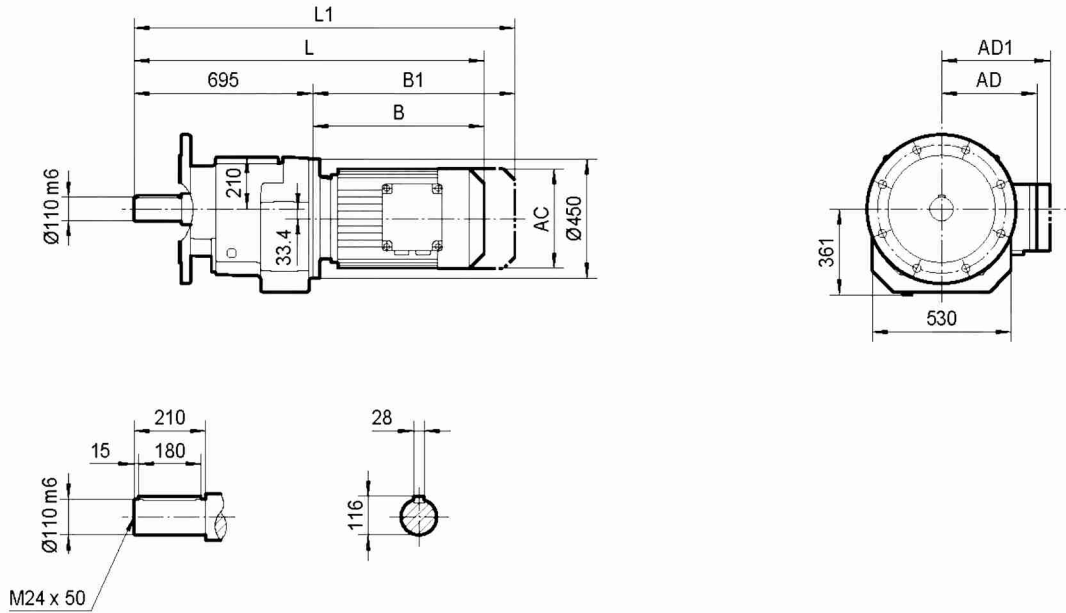
YDA	132S	132M	132ML	YDT160M	YDT160L	YDT180..	YDT200..	YDT225..	YDT250..		
AC	221	275	275	275	331	331	394	394	510		
AD	179	230	230	230	258	258	285	289	397		
AD1	182	230	230	230	258	258	285	289	397		
B	367	389	449	449	496	568	616	698	789		
B1	447	501	561	561	652	724	772	854	974		
L	956	978	1038	1038	1085	1157	1205	1287	1378		
L1	1036	1090	1150	1150	1241	1313	1361	1443	1563		

TR147..

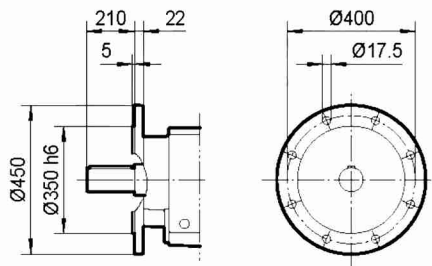


YDT	132ML	160M	160L	180..	200..	225..	250M	280..			
AC	275	275	331	331	394	394	510	510			
AD	230	230	258	258	285	289	397	397			
AD1	230	230	258	258	285	289	397	397			
B	441	441	488	560	608	690	780	780			
B1	553	553	644	716	764	846	965	965			
L	1136	1136	1183	1255	1303	1385	1475	1475			
L1	1248	1248	1339	1411	1459	1541	1660	1660			

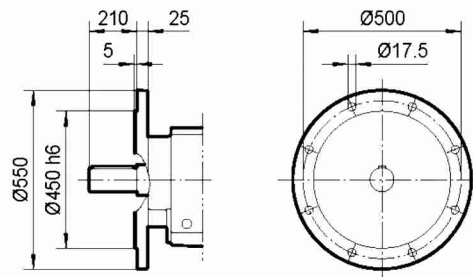
TRF147..



I
Ø450

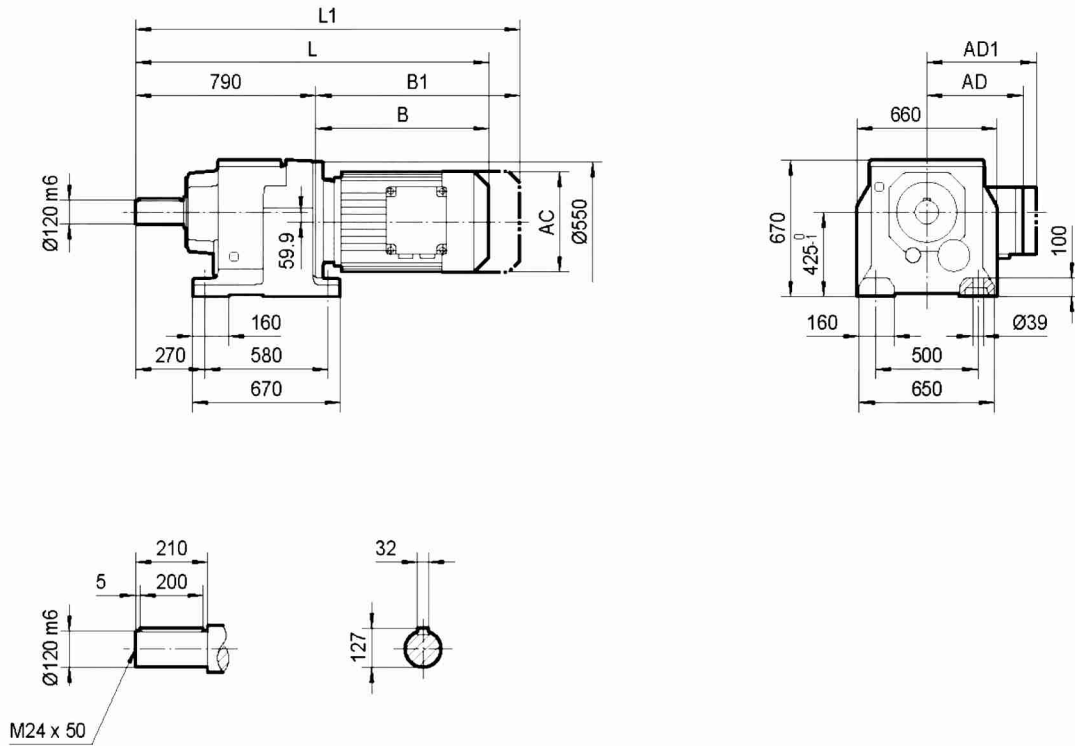


II
Ø550



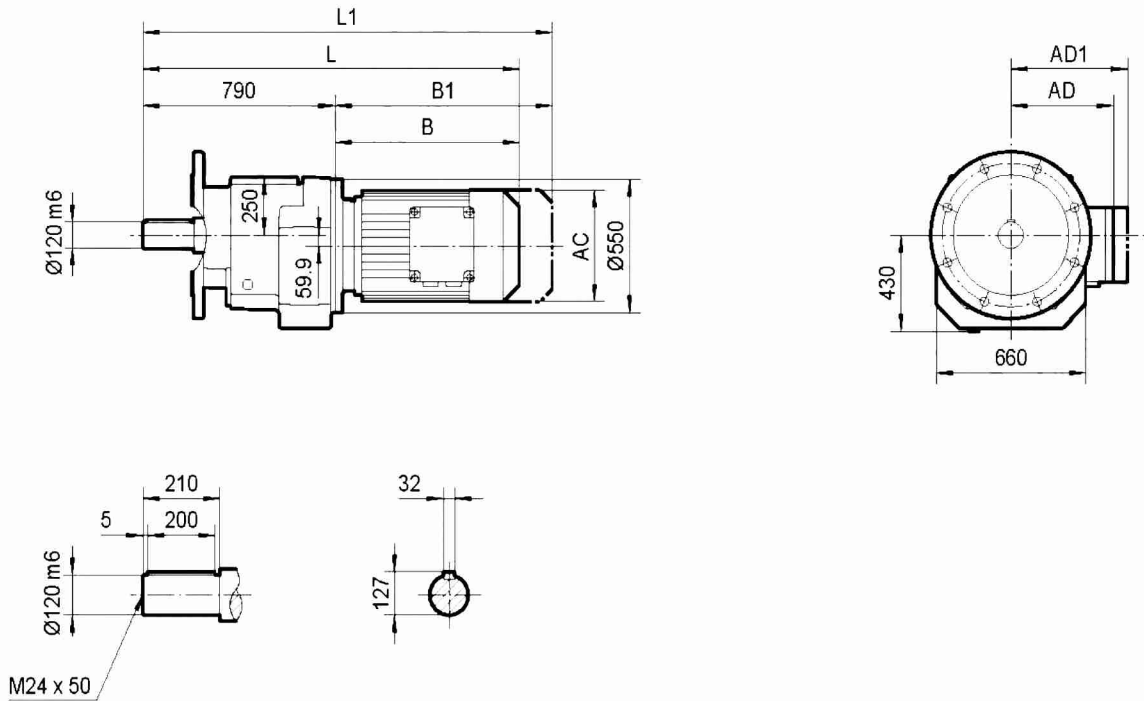
YDT	132ML	160M	160L	180..	200..	225..	250M	280..			
AC	275	275	331	331	394	394	510	510			
AD	230	230	258	258	285	289	397	397			
AD1	230	230	258	258	285	289	397	397			
B	441	441	488	560	608	690	780	780			
B1	553	553	644	716	764	846	965	965			
L	1136	1136	1183	1255	1303	1385	1475	1475			
L1	1248	1248	1339	1411	1459	1541	1660	1660			

TR167..

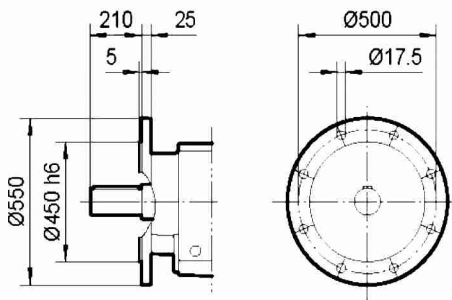


YDA	160M	160L	180..	200..	225..	250M	280..	315S	315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1223	1270	1342	1390	1472	1561	1561	1789	1840		
L1	1335	1426	1498	1546	1628	1746	1746	2000	2051		

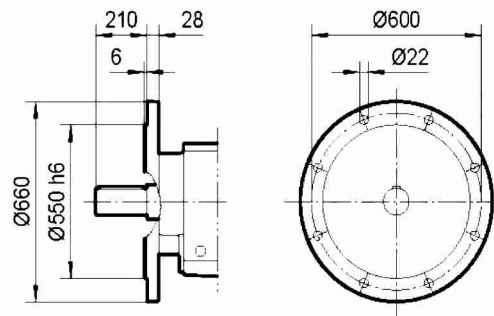
TRF167..



I
Ø550

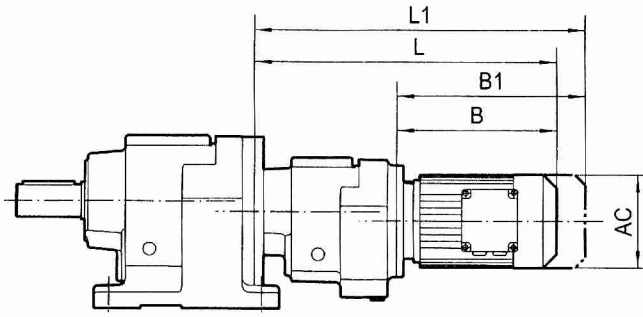


II
Ø660



YDA	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	1223	1270	1342	1390	1472	1561	1561	1789	1840		
L1	1335	1426	1498	1546	1628	1746	1746	2000	2051		

TR.. / TRF..

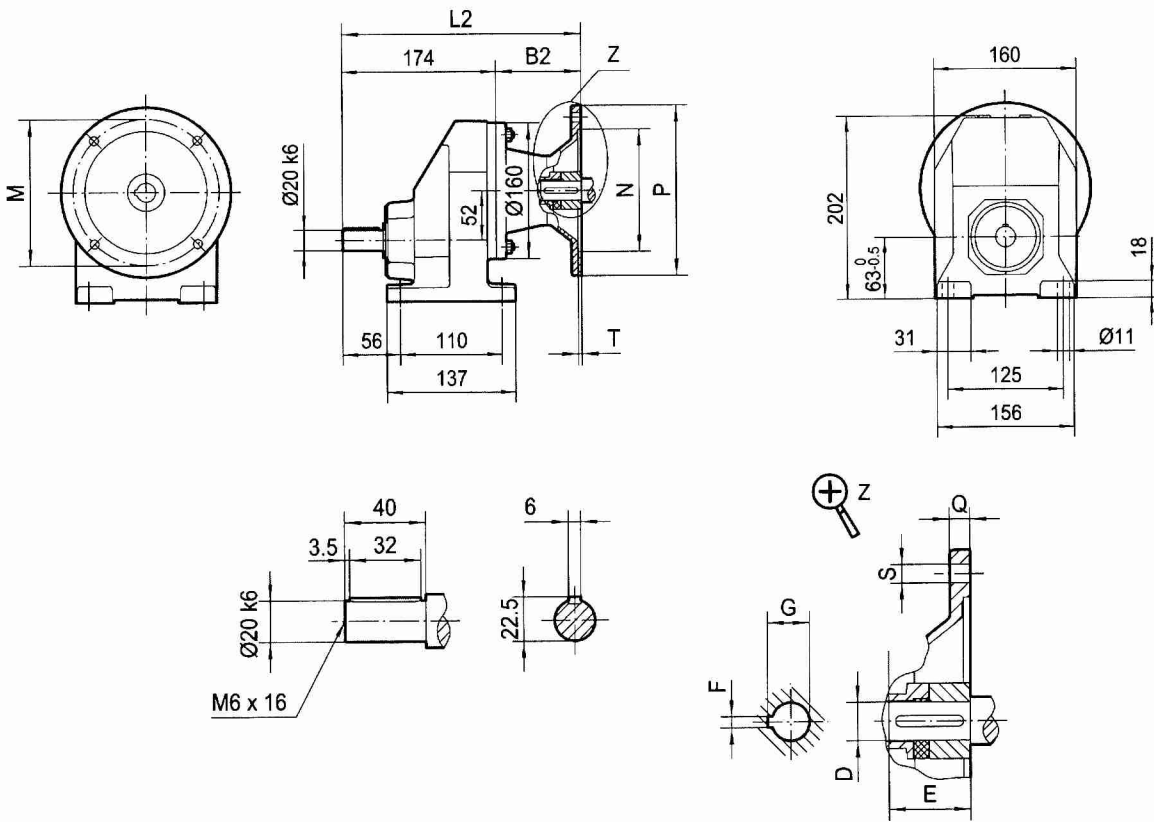


TR.. / TRF..	YDA../YDT..	AC	B	B1	L	L1
TR..47 /TRF37	63..	132	192	246	357	411
TR..57 /TRF37	71D	145	206	270	371	435
TR..67 /TRF37	80..	145	256	320	421	485
TR..77 / TRF37	63..	132	192	246	349	403
	71D	145	206	270	363	427
	B0..	145	256	320	413	477
	90..	197	276	361	433	518
TR..87 / TRF57	63..	132	185	240	401	456
	71D	145	199	263	415	479
	80..	145	249	313	465	529
TR..97 / TRF57	90..	197	269	354	485	570
	63..	132	185	240	396	451
	71D	145	199	263	410	474
	80..	145	249	313	460	524
	90..	197	269	354	480	565
TR..107 / TRF77	100M	197	319	404	530	615
	100L	197	349	434	560	645
	63..	132	179	234	426	481
	71D	145	193	257	440	504
	80..	145	243	307	490	554
	90..	197	261	346	508	593
	100M	197	311	396	558	643
TR..137 / TRF77	100L	197	341	426	588	673
	112M	221	345	425	592	572
	1329	221	390	470	637	717
	132M	275	412	524	659	771
	132ML	275	472	584	719	831
	160M	275	472	584	719	831
	63..	132	179	234	419	474
	71D	145	193	257	433	497
	80..	145	243	307	483	547
	90..	197	261	346	501	586
TR..147 / TRF77	100M	197	311	396	551	636
	100L	197	341	426	581	666
	112M	221	345	425	585	665
	1325	221	390	470	630	710
	132M	275	412	524	652	764
	132ML	275	472	584	712	824
	160M	275	472	584	712	824
	63..	132	179	234	411	466
71D	145	193	257	425	489	

TR.. / TRF..	YDA../YDT..	AC	B	B1	L	L1
TR..147 / TRF77	80..	145	243	307	475	539
	90..	197	261	346	496	578
	100M	197	311	396	543	628
	100L	197	341	426	573	658
	112M	221	345	425	577	657
	132S	221	390	470	622	702
	132M	275	412	524	644	756
	132ML	275	472	584	704	816
	160M	275	472	584	704	816
	TR..147 / TRF87	90..	197	257	342	537
100M		197	307	392	587	672
100L		197	337	422	617	702
112M		221	340	420	620	700
132S		221	385	465	665	745
132M		275	407	519	687	799
132ML		275	467	579	747	859
160M		275	467	579	747	859
160L		331	514	670	794	950
180..		331	586	742	866	1022
TR..167 / TRF97	80..	145	231	295	556	820
	90..	197	251	336	576	661
	100M	197	301	386	626	711
	100L	197	331	416	656	741
	112M	221	335	415	660	740
	132S	221	380	460	705	785
	132M	275	402	514	727	839
	132ML	275	462	574	787	899
	160M	275	462	665	787	899
	160L	331	509	737	834	990
TR..167 / TRF107	180..	331	581	380	906	1062
	100M	197	295	380	677	762
	100L	197	325	410	707	792
	112M	221	329	409	711	791
	132S	221	374	454	756	836
	132M	275	396	508	778	890
	132ML	275	456	568	838	950
	160M	275	456	568	838	950
	160L	331	503	659	885	1041
	180..	331	575	731	857	1113
TR..167 / TRF107	200..	394	623	779	1005	1161
	225..	394	705	861	1087	1243

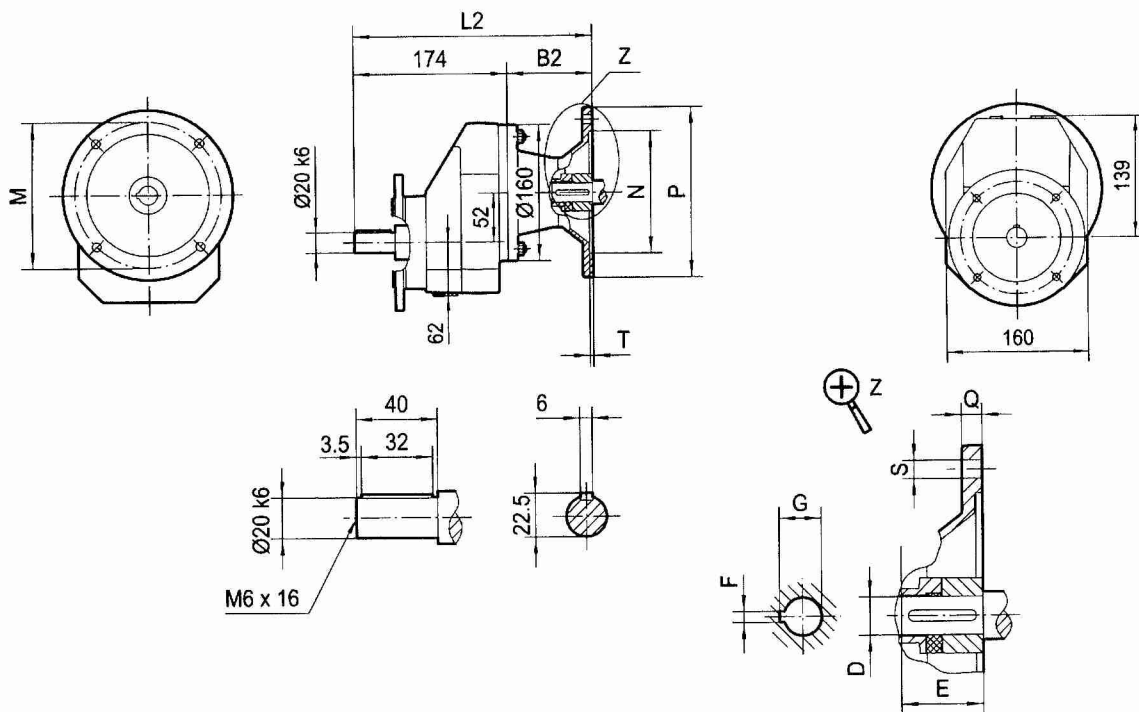
Motor type YDA (Frame size 63 ~ 132, YDT (Frame size 160 ~ 315)

TRX57..

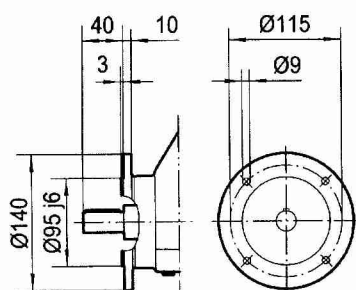


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	240	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	240	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	273	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	273	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	308	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	308	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	365	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

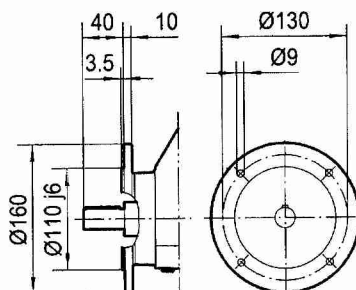
TRXF57..



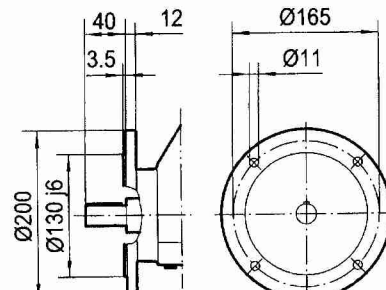
I
Ø140



II
Ø160

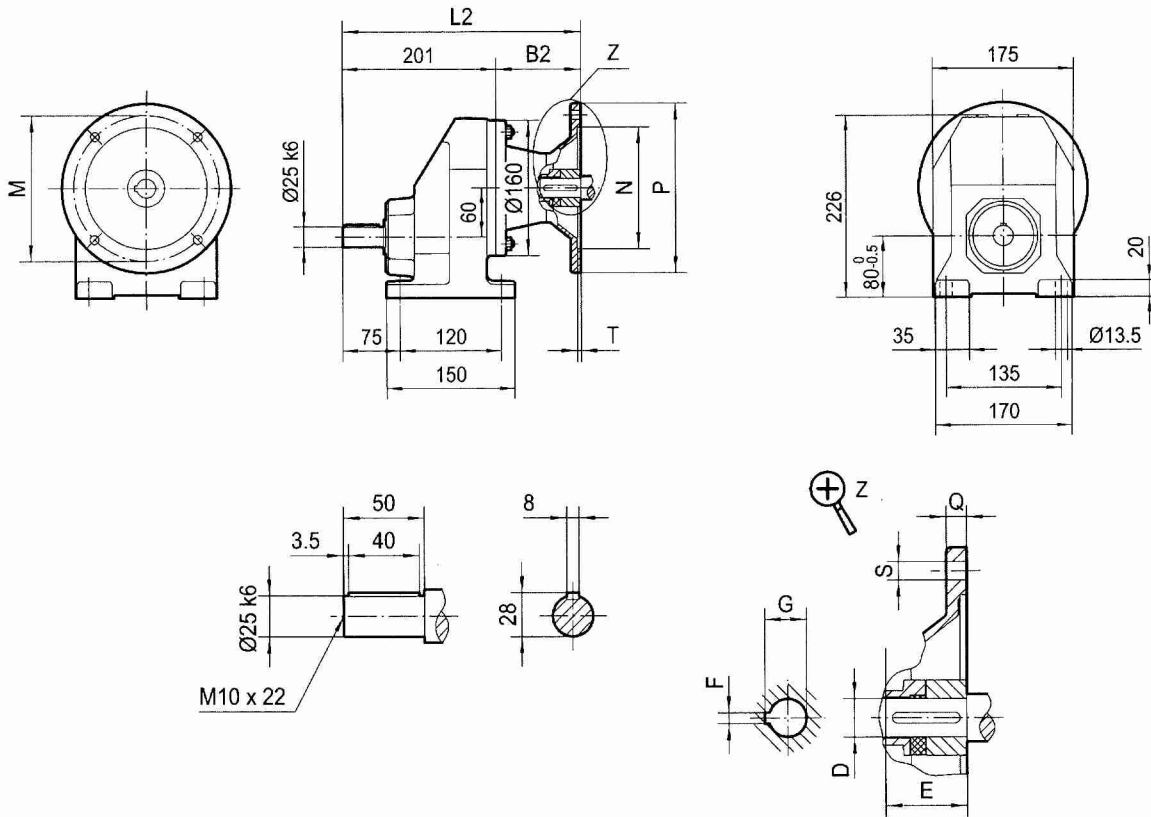


III
Ø200



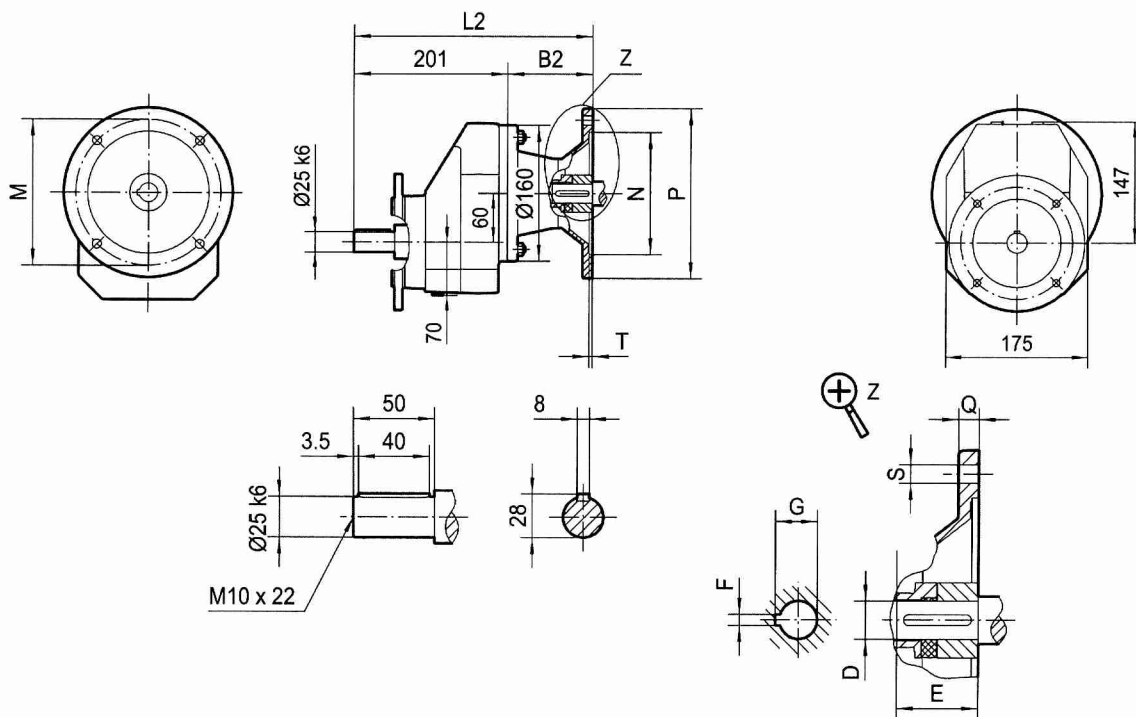
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	240	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	240	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	273	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	273	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	308	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	308	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	365	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TRX67..



	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	267	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	267	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	300	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	300	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	335	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	335	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	392	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TRXF67..



I

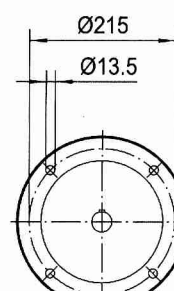
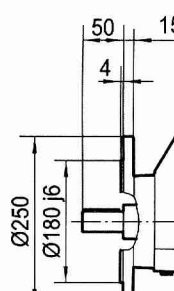
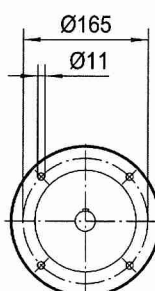
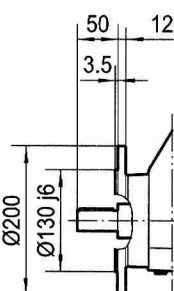
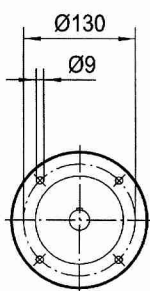
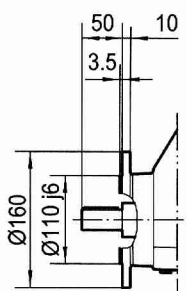
II

III

I
Ø160

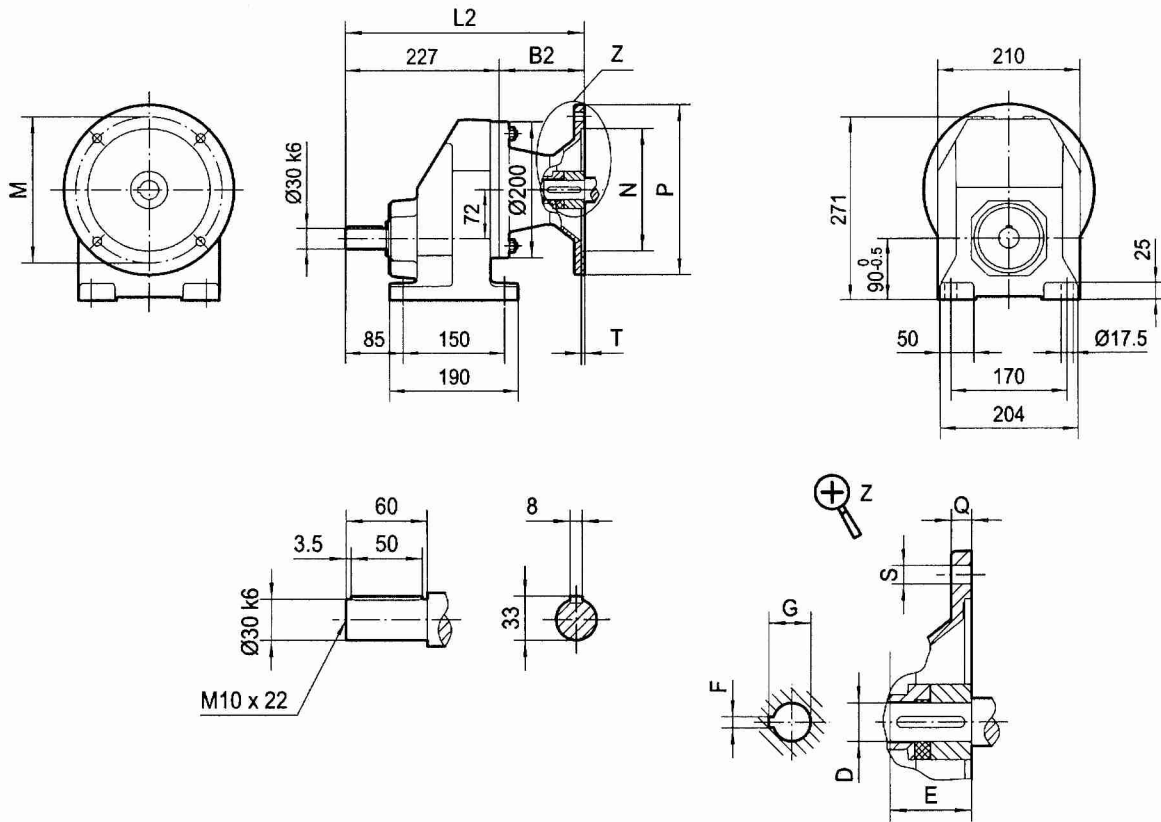
II
Ø200

III
Ø250



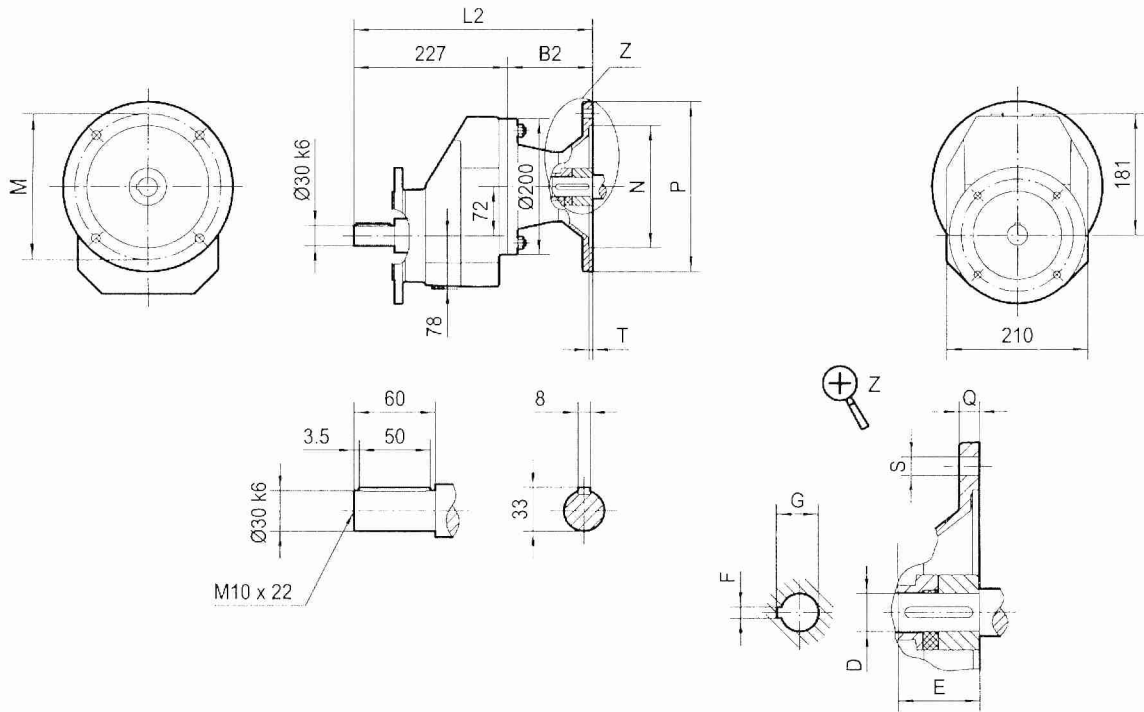
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	267	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	267	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	300	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	300	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	335	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	335	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	392	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TRX77..

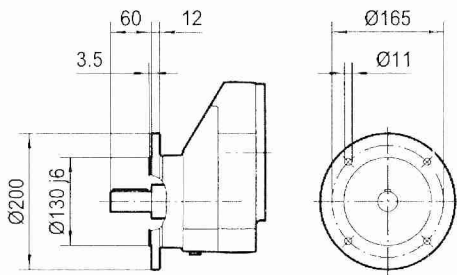


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	287	60	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	287	60	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	319	92	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	319	92	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	353	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	353	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	406	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	406	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

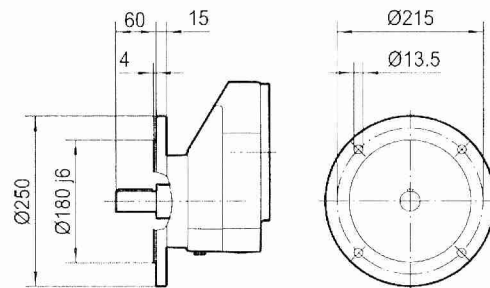
TRXF77..



I
Ø200

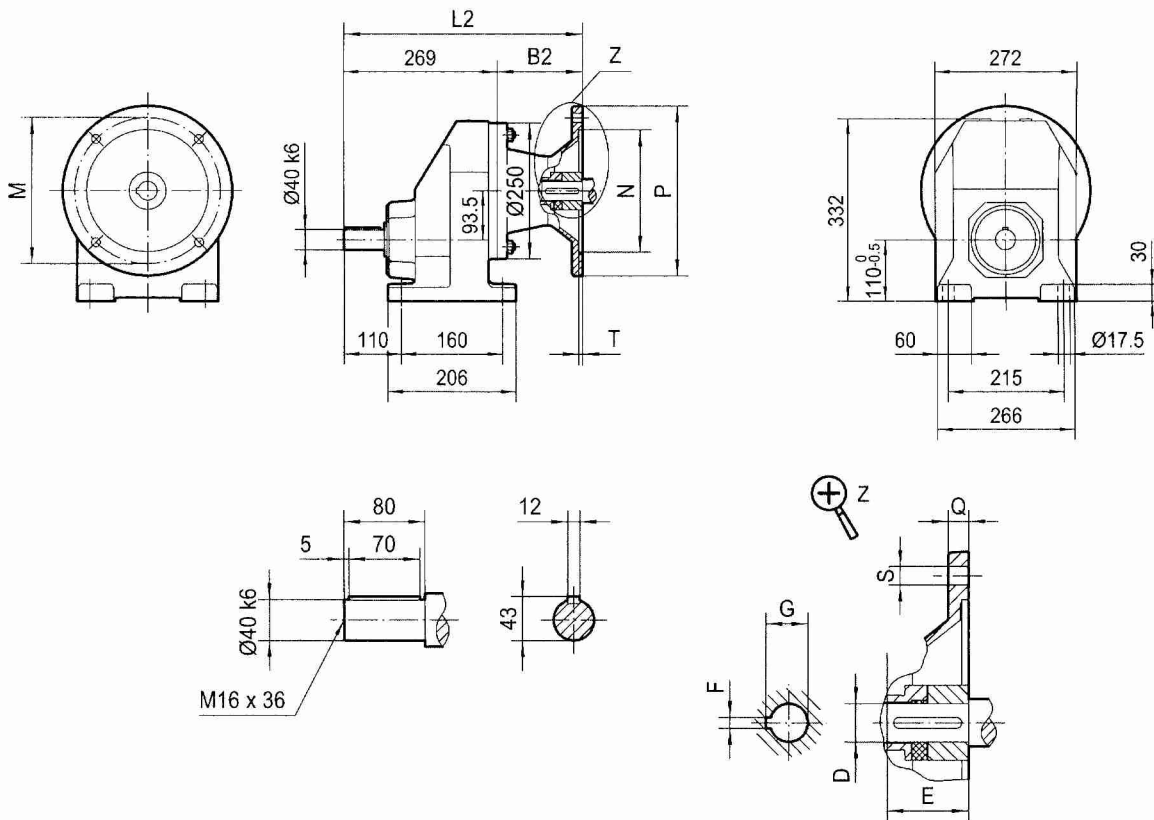


II
Ø250



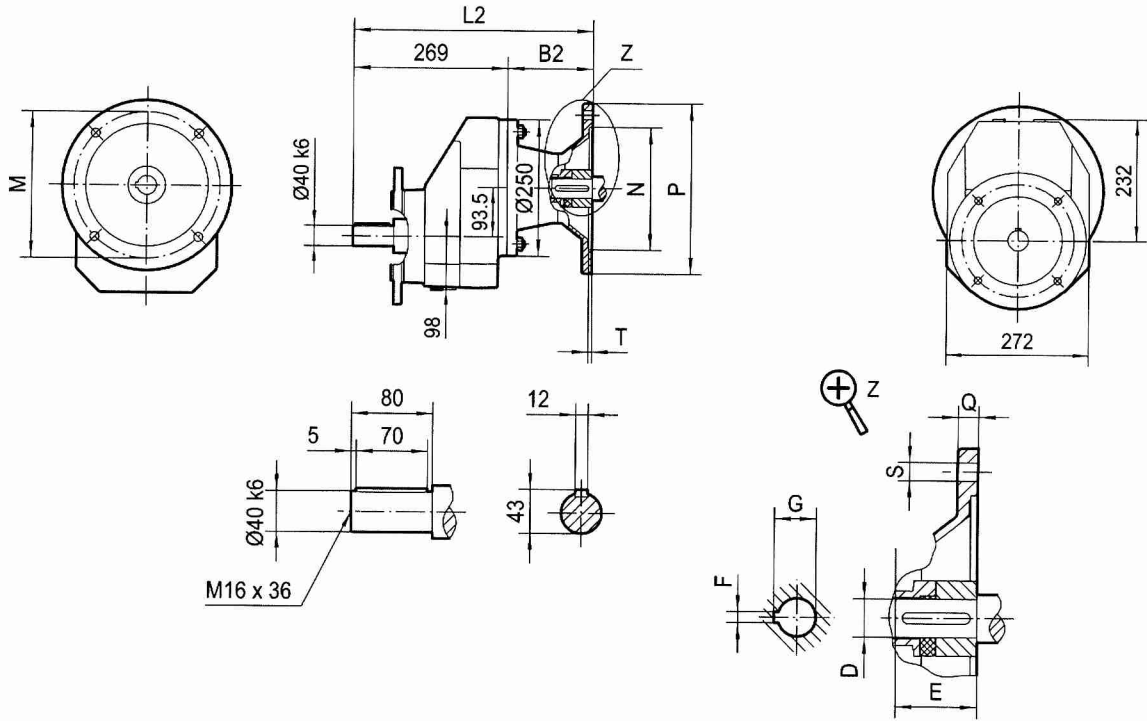
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	287	60	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	287	60	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	319	92	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	319	92	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	353	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	353	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	406	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	406	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TRX87..

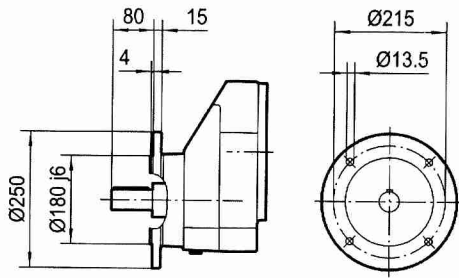


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM80	356	87	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	356	87	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	390	121	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	390	121	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	443	174	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	443	174	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM160	501	232	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
AM180	501	232	48	110	14	51.8	300	250	350	18	4-Ø17.5	6

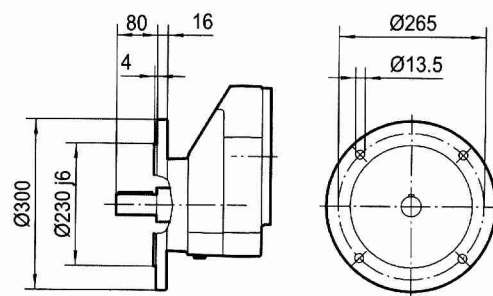
TRXF87..



I
Ø250

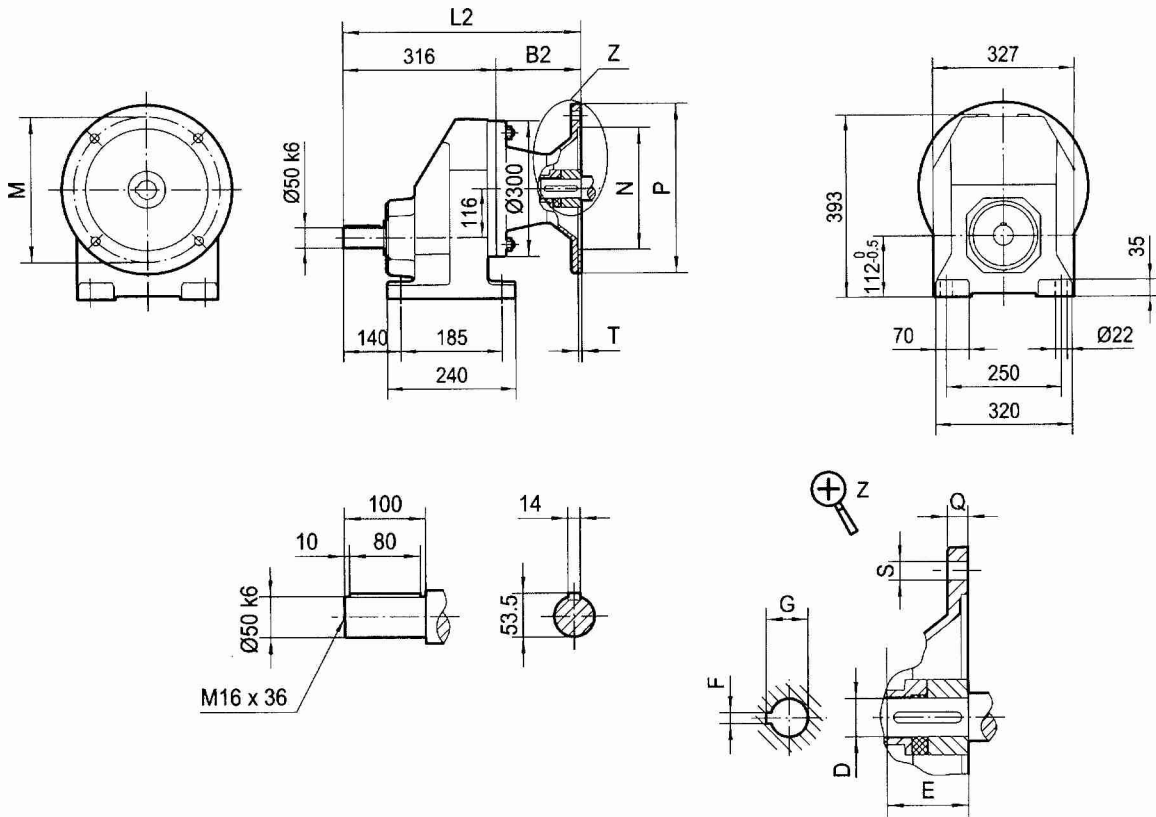


II
Ø300



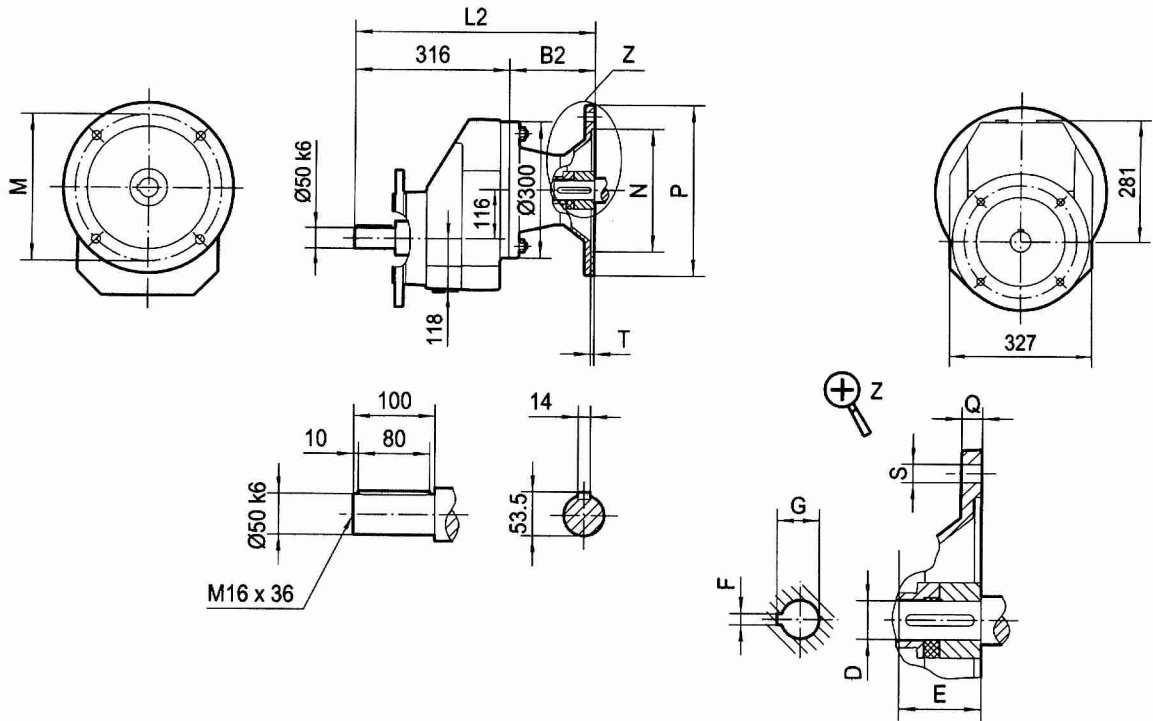
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM80	356	87	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	356	87	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	390	121	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	390	121	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	443	174	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	443	174	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM160	501	232	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
AM180	501	232	48	110	14	51.8	300	250	350	18	4-Ø17.5	6

TRX97..

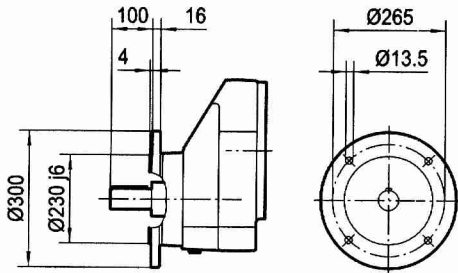


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	432	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM112	432	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM132S/M	485	169	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM132ML	485	169	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM160	543	227	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
AM180	543	227	48	110	14	51.8	300	250	350	18	4-Φ17.5	6
AM200	584	268	55	110	16	59.3	350	300	400	20	4-Φ17.5	7

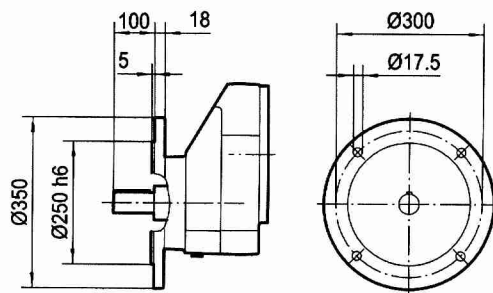
TRXF97..



I
Ø300

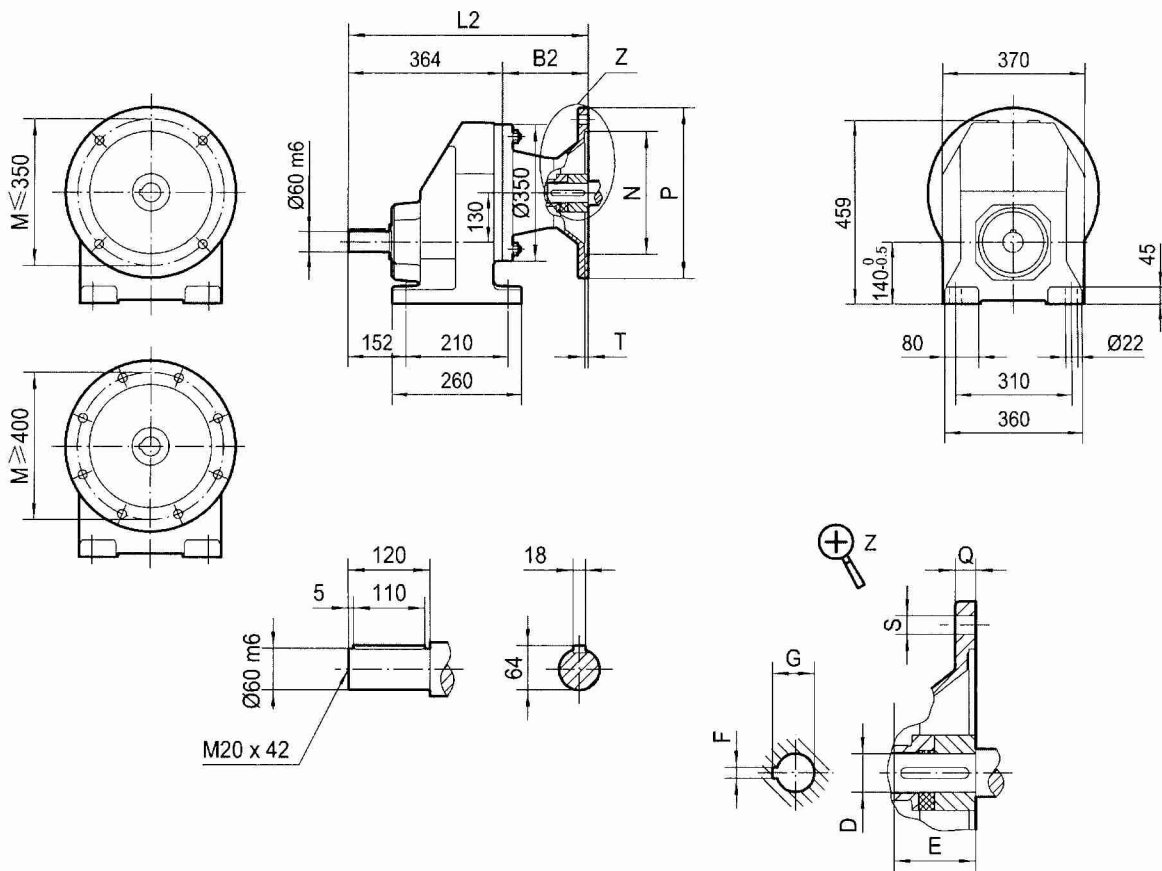


II
Ø350



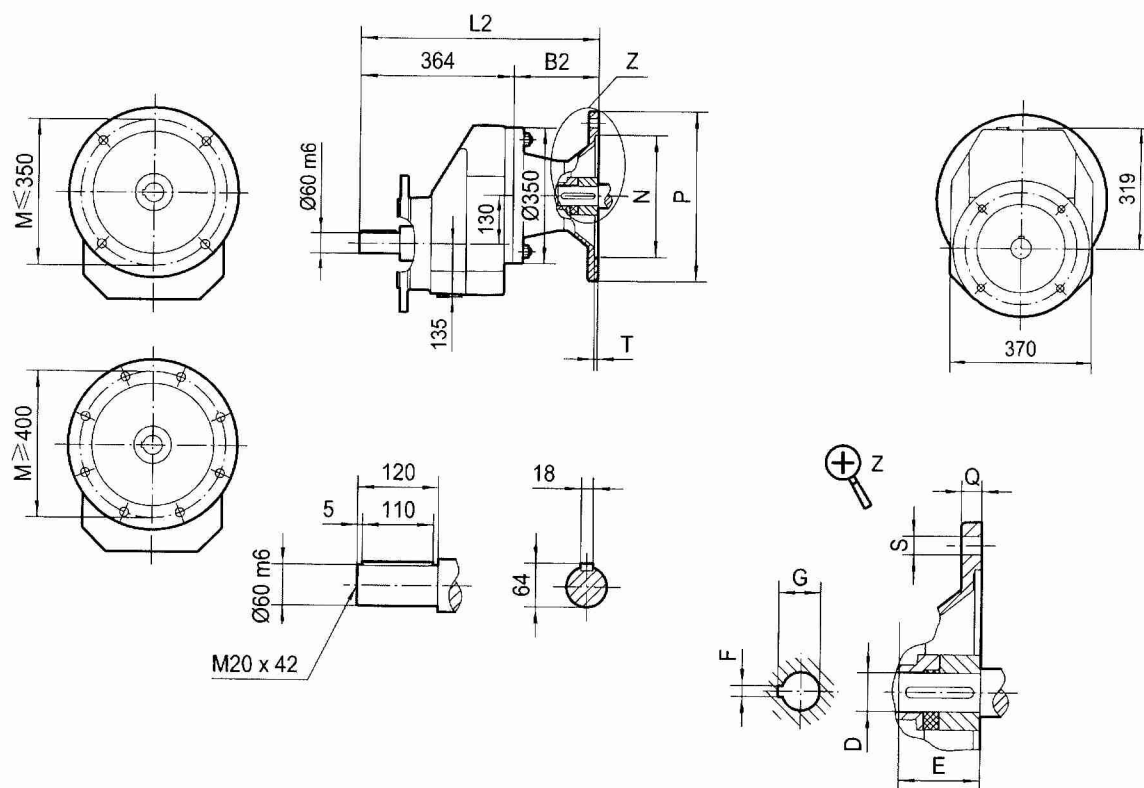
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	432	116	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	432	116	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	485	169	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	485	169	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM160	543	227	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
AM180	543	227	48	110	14	51.8	300	250	350	18	4-Ø17.5	6
AM200	584	268	55	110	16	59.3	350	300	400	20	4-Ø17.5	7

TRX107..



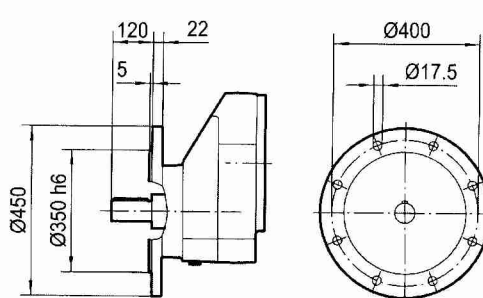
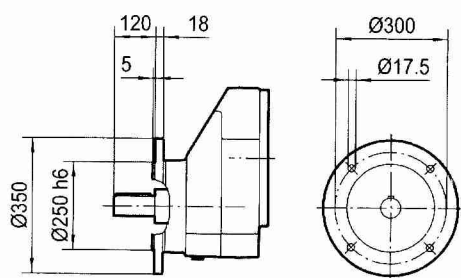
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	474	110	28	60	8	31.3	215	180	250	15	4- $\text{Ø}13.5$	5
AM112	474	110	28	60	8	31.3	215	180	250	15	4- $\text{Ø}13.5$	5
AM132S/M	527	163	38	80	10	41.3	265	230	300	16	4- $\text{Ø}13.5$	5
AM132ML	527	163	38	80	10	41.3	265	230	300	16	4- $\text{Ø}13.5$	5
AM160	585	221	42	110	12	45.3	300	250	350	18	4- $\text{Ø}17.5$	6
AM180	585	221	48	110	14	51.8	300	250	350	18	4- $\text{Ø}17.5$	6
AM200	626	262	55	110	16	59.3	350	300	400	20	4- $\text{Ø}17.5$	7
AM225	641	277	60	140	18	64.4	400	350	450	22	8- $\text{Ø}13.5$	7

TRXF107..



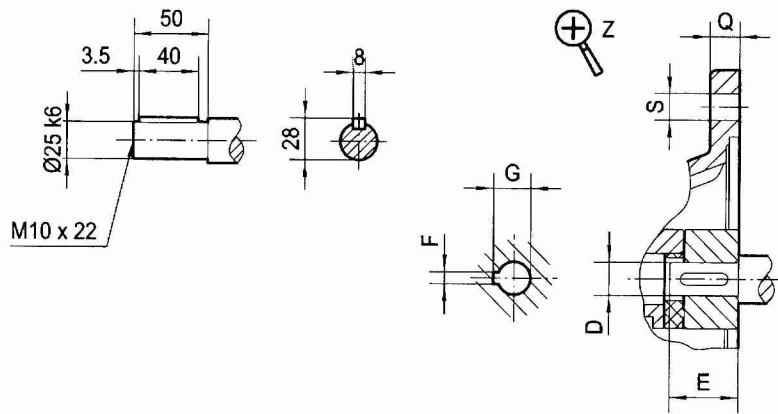
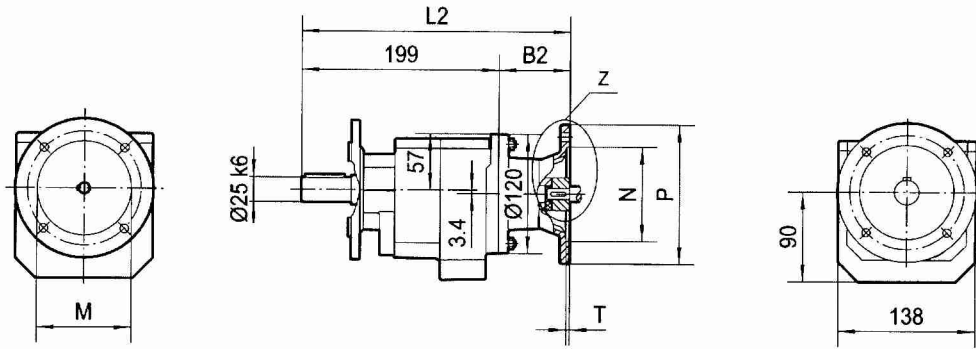
I
Ø350

II
Ø450



	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	474	110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM112	474	110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM132S/M	527	163	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM132ML	527	163	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM160	585	221	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
AM180	585	221	48	110	14	51.8	300	250	350	18	4-Φ17.5	6
AM200	626	262	55	110	16	59.3	350	300	400	20	4-Φ17.5	7
AM225	641	277	60	140	18	64.4	400	350	450	22	8-Φ13.5	7

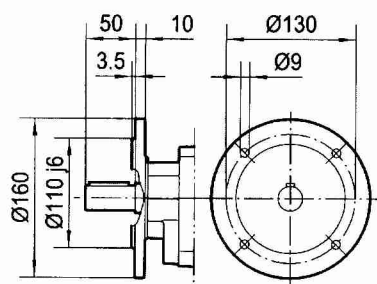
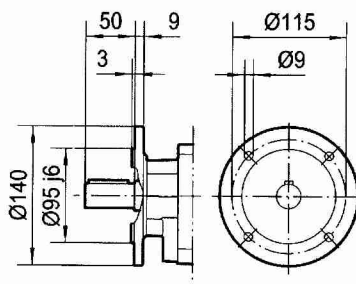
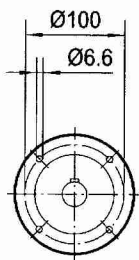
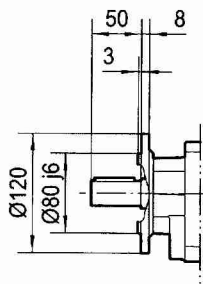
TRF27..



I
Ø120

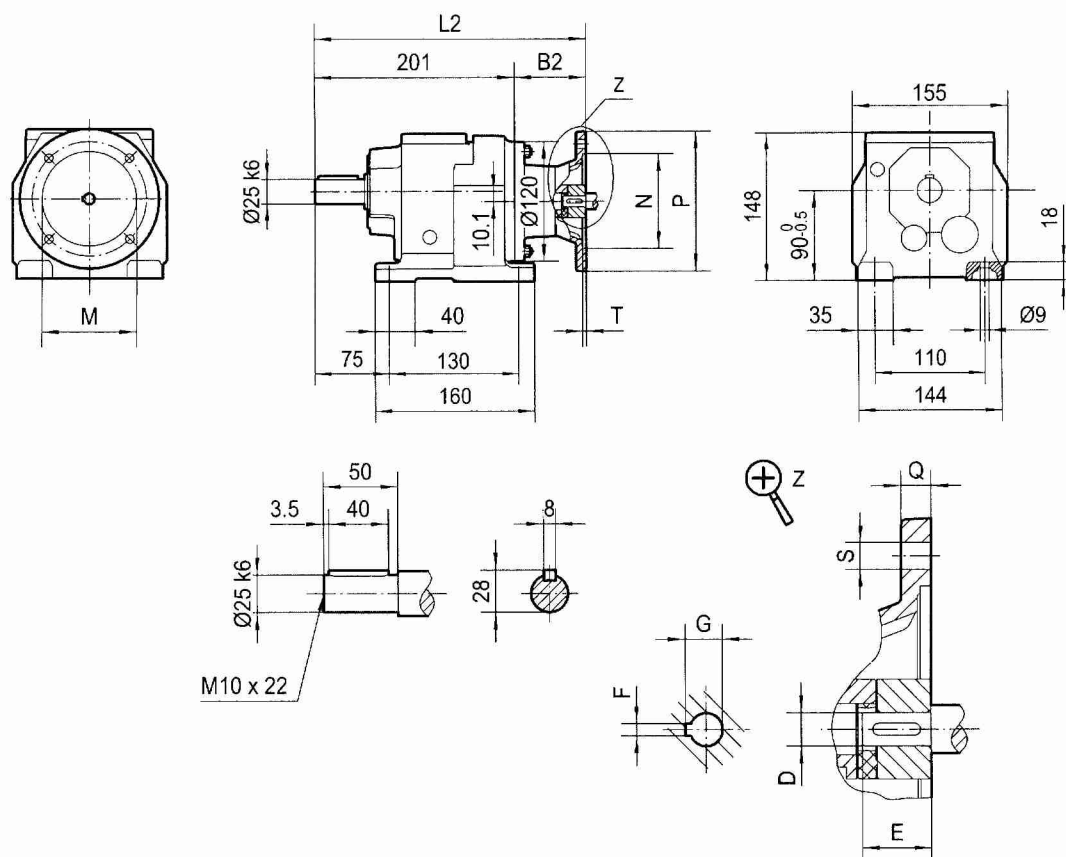
II
Ø140

III
Ø160

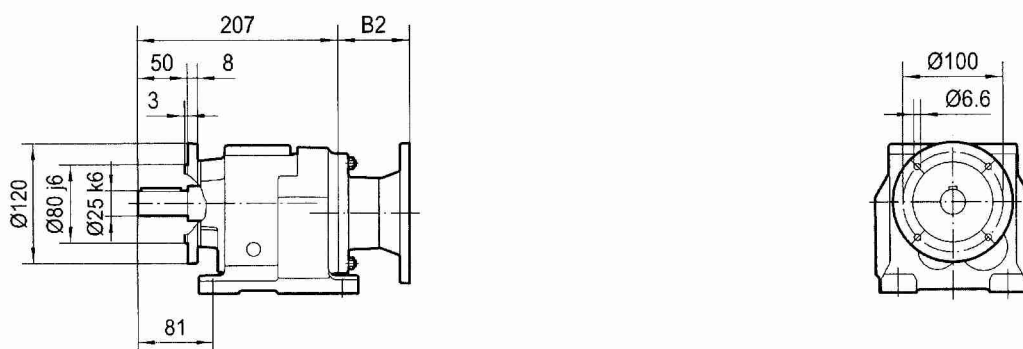


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	271	72	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	271	72	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	305	106	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	305	106	24	50	8	27.3	165	130	200	12	4-Ø11	4.5

TR37..



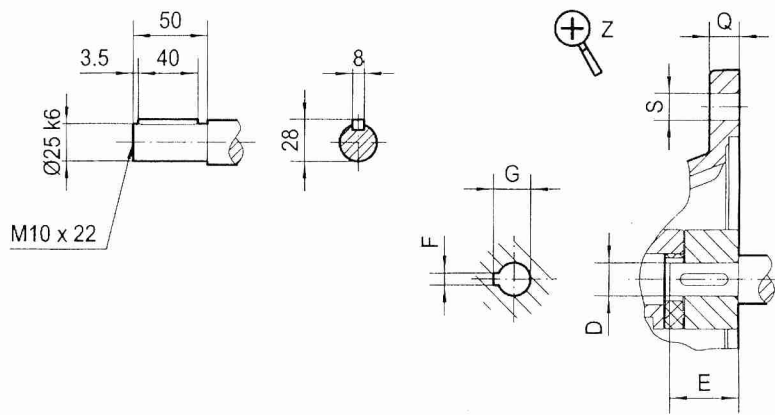
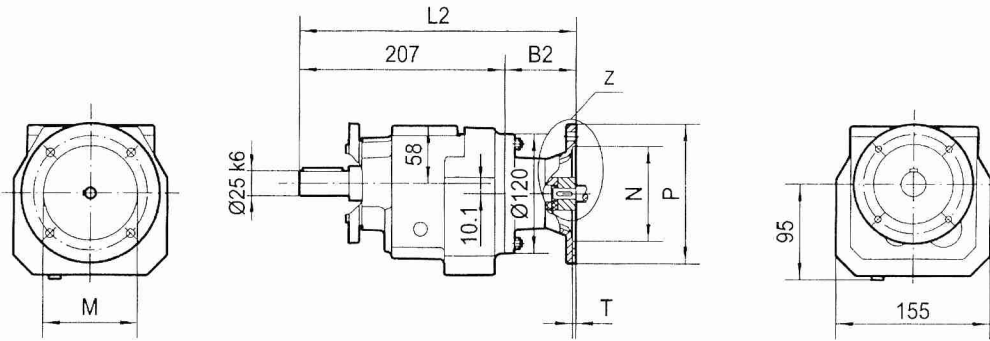
TR37F..



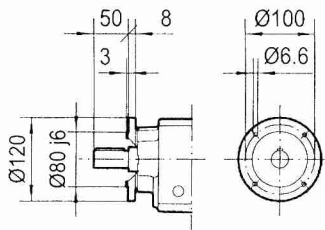
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	273	72	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71 ¹⁾	273	72	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80 ¹⁾	307	106	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90 ¹⁾	307	106	24	50	8	27.3	165	130	200	12	4-Ø11	4.5

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

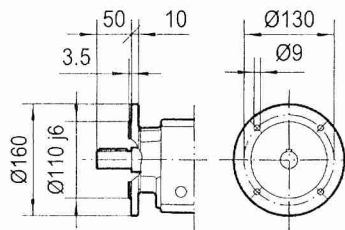
TRF37..



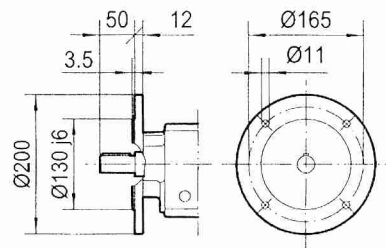
I
Ø120



II
Ø160

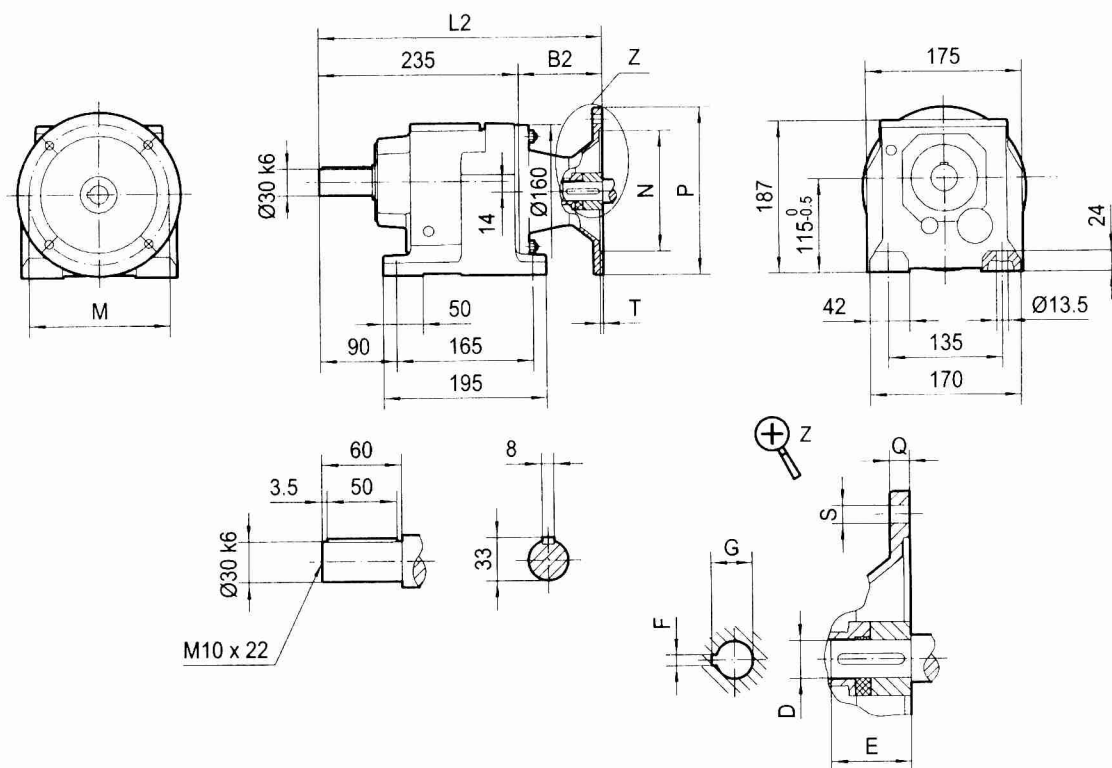


III
Ø200

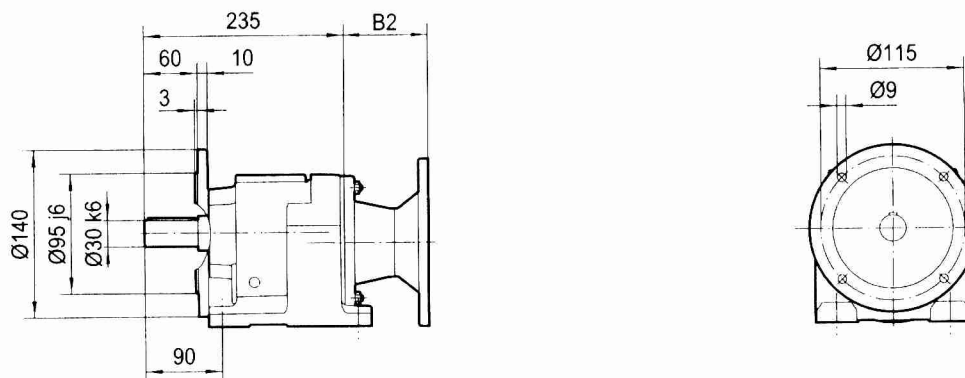


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	279	72	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	279	72	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	313	106	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	313	106	24	50	8	27.3	165	130	200	12	4-Ø11	4.5

TR47..



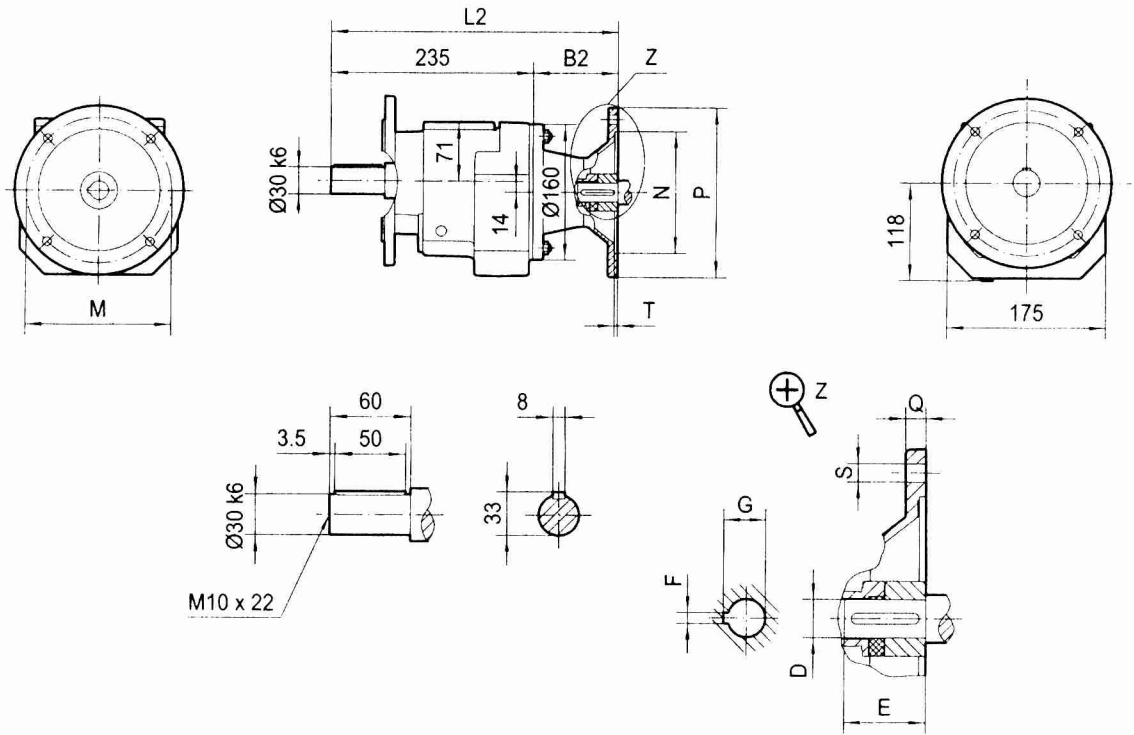
TR47F..



	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	301	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	301	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	334	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	334	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	369	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	369	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	426	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

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

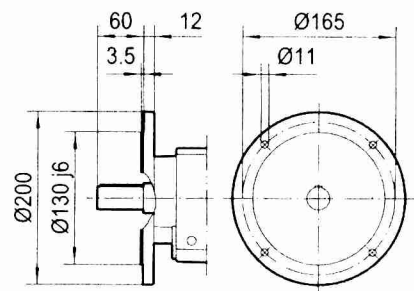
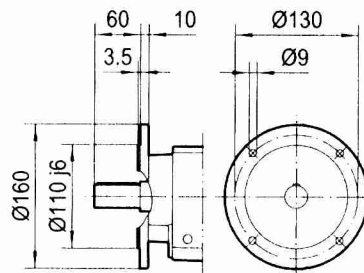
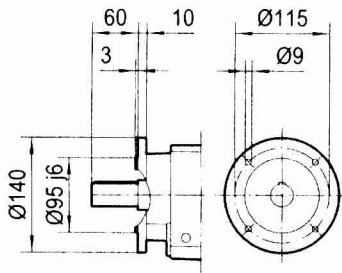
TRF47..



I
Ø140

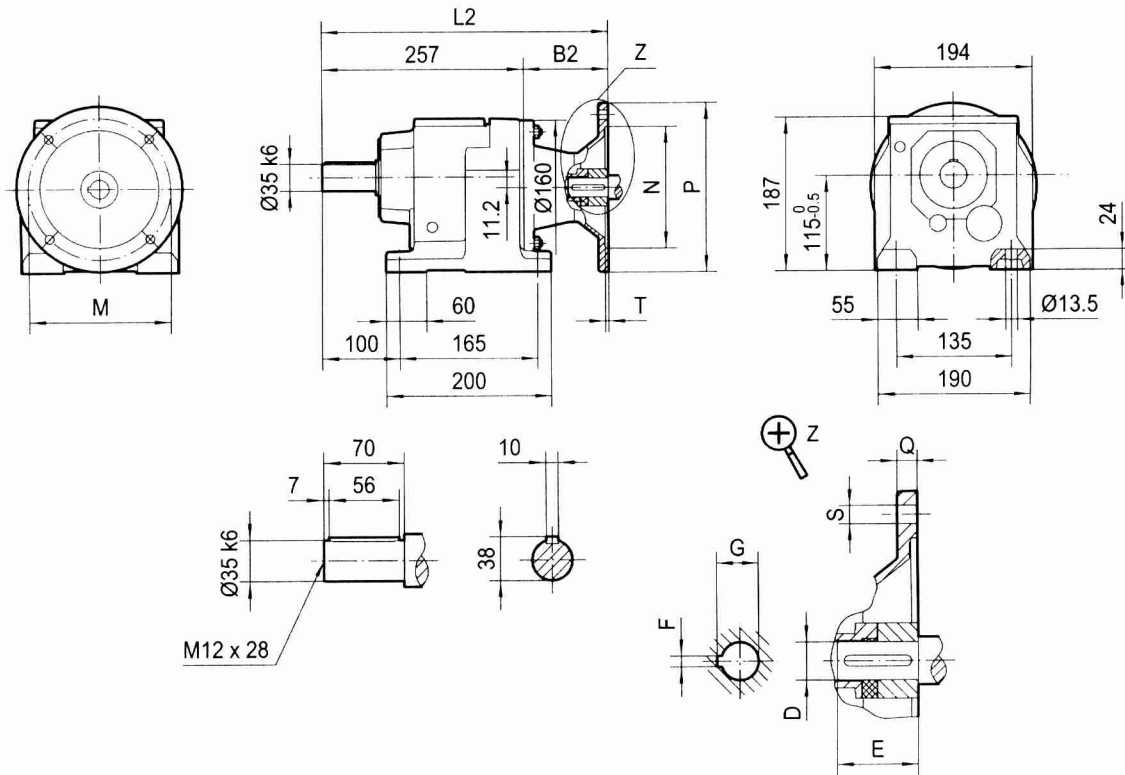
II
Ø160

III
Ø200

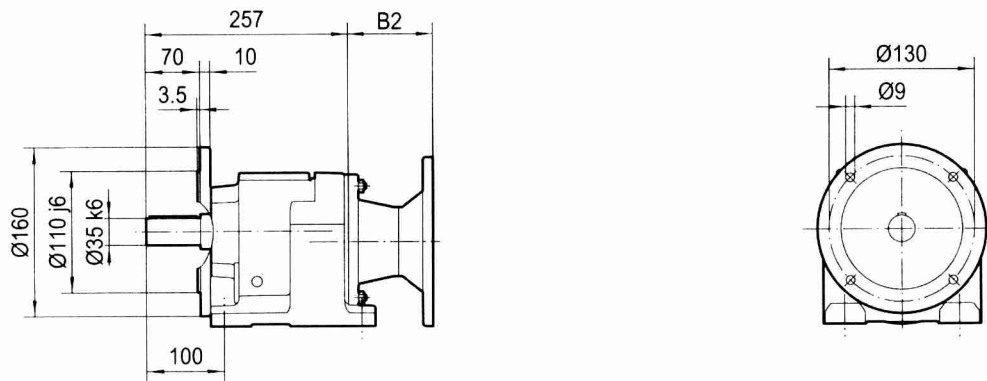


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	301	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	301	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	334	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	334	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	369	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	369	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	426	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TR57..



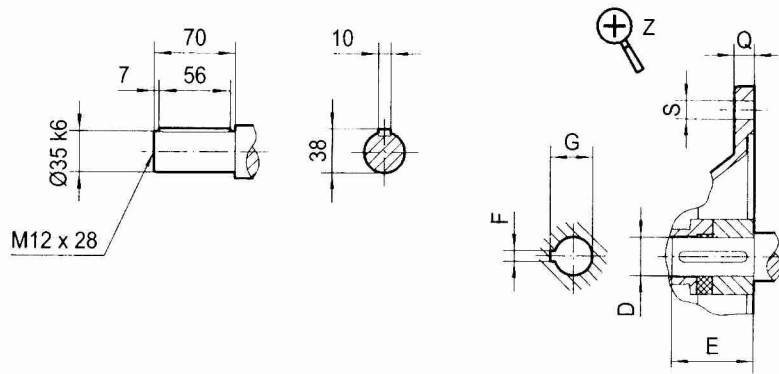
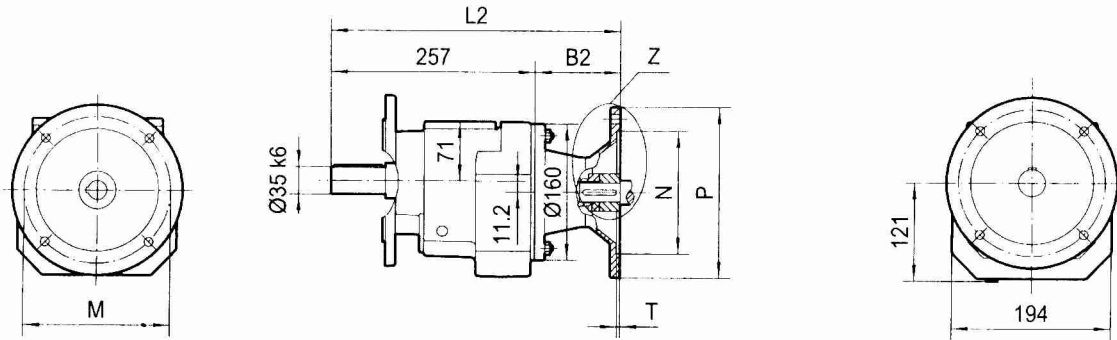
TR57F..



	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	323	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	323	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	356	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	356	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	391	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	391	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	448	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

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

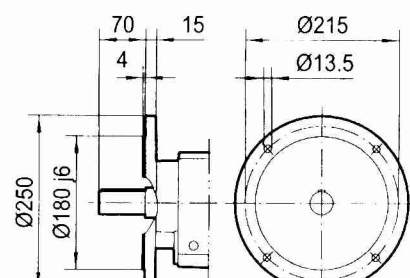
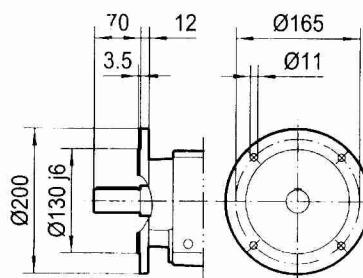
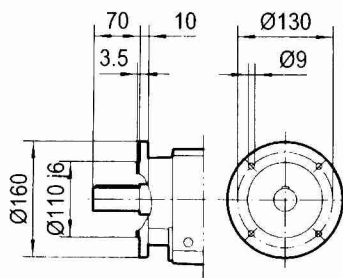
TRF57..



I
Ø160

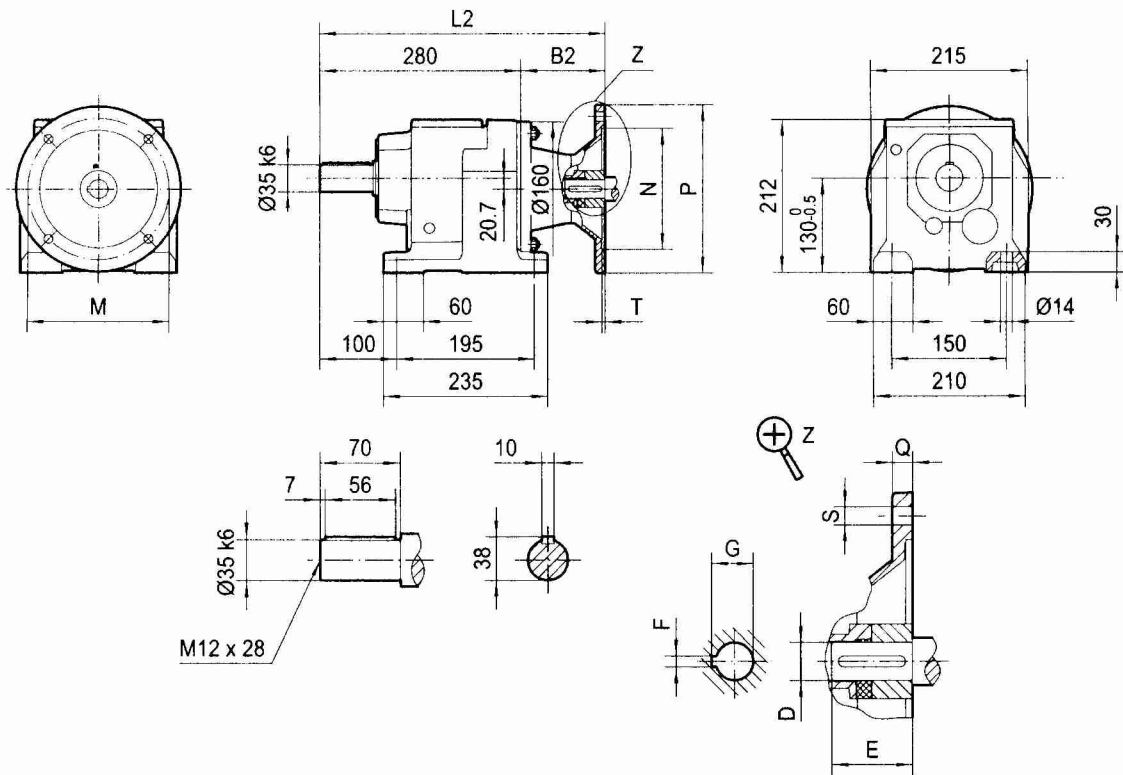
II
Ø200

III
Ø250

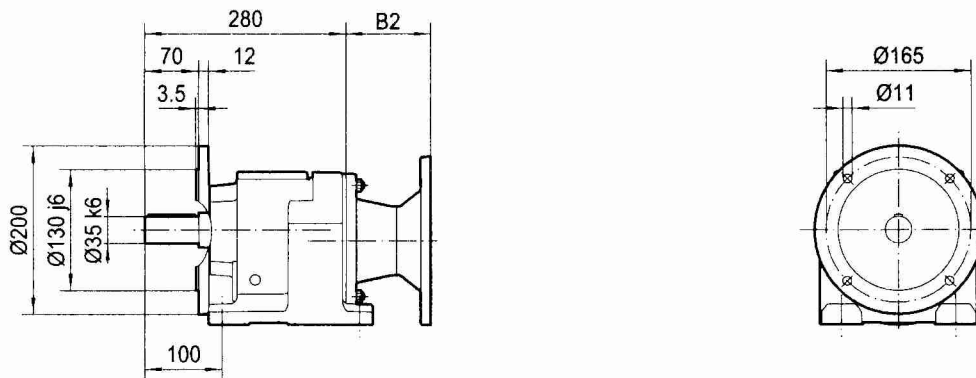


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	323	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	323	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	356	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	356	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	391	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	391	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	448	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TR67..



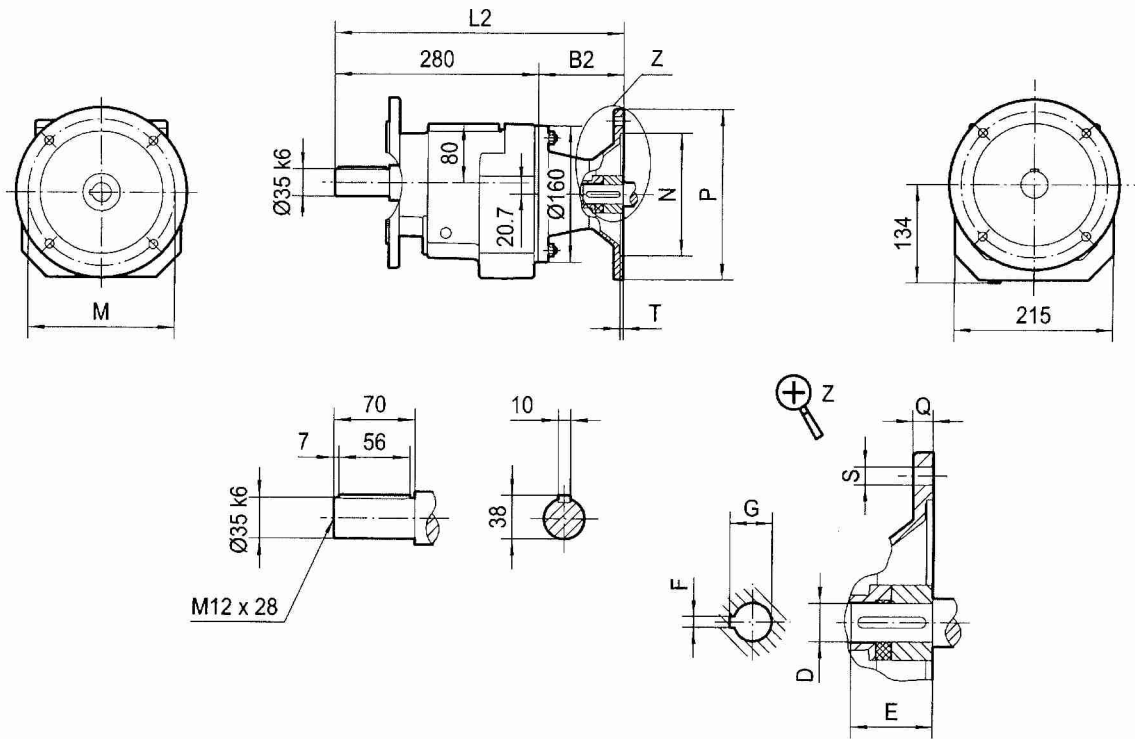
TR67F..



	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	346	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	346	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	379	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	379	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	414	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	414	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	471	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

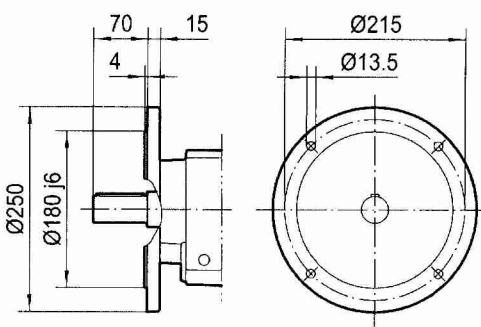
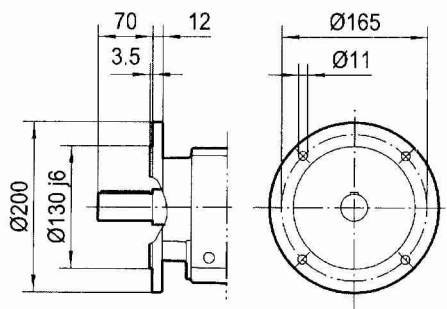
1) Dimension P/2 may protrude past foot mounting surface, please check.

TRF67..



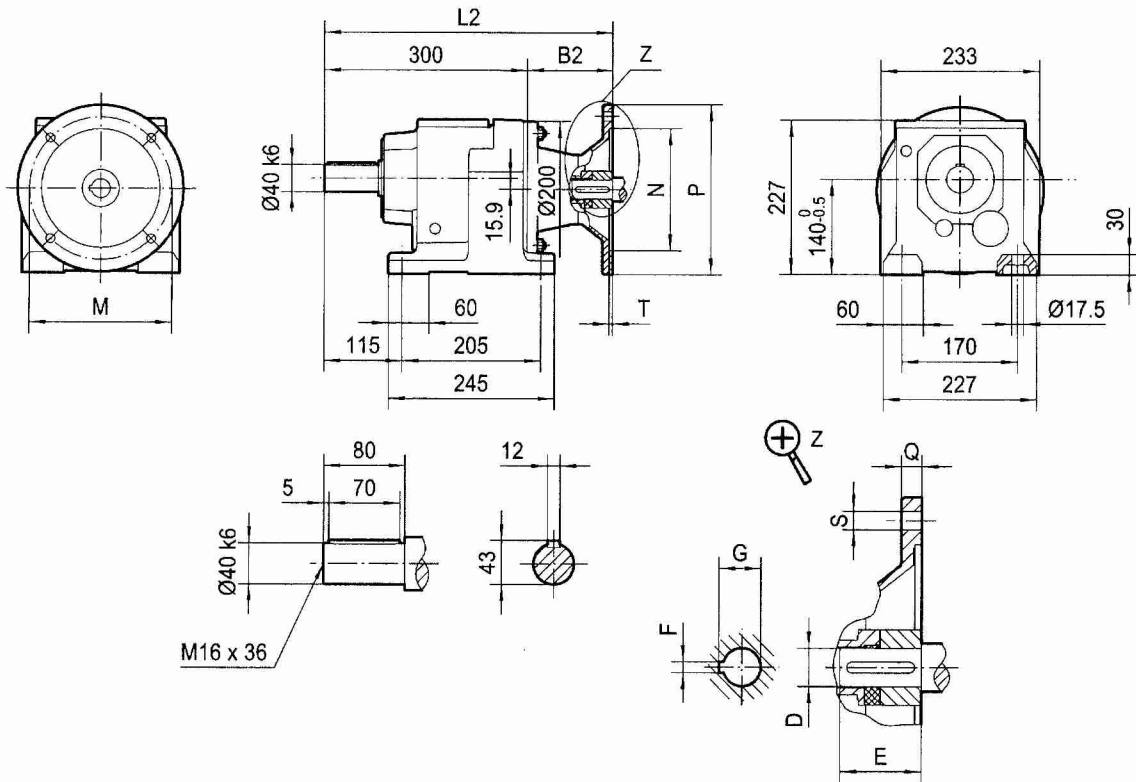
I
Ø200

II
Ø250

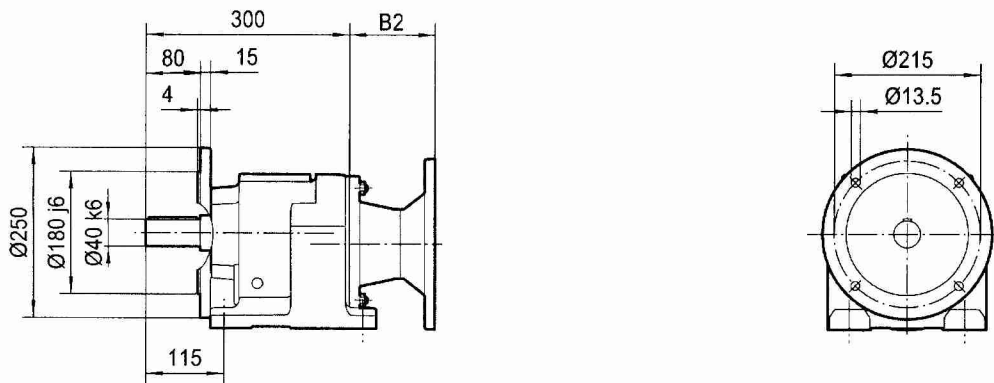


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	346	66	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	346	66	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	379	99	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	379	99	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	414	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	414	134	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	471	191	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TR77..



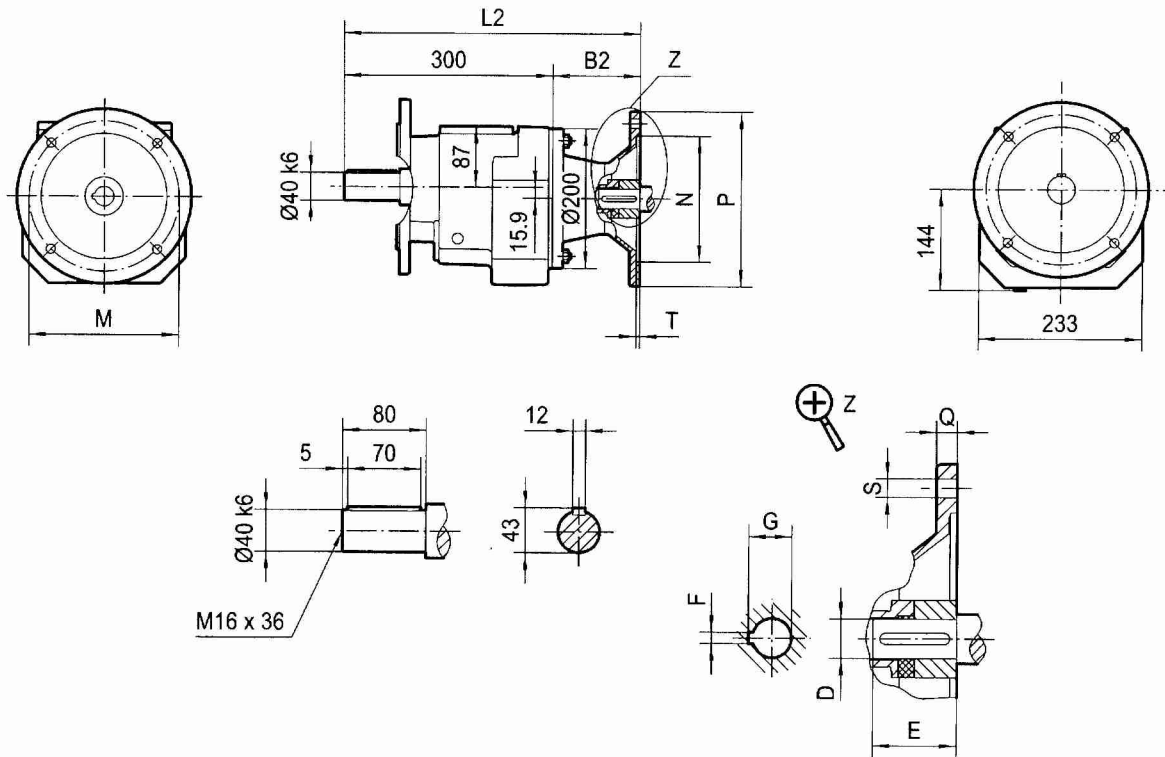
TR77F..



	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	360	60	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	360	60	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	392	92	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	392	92	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100 ¹⁾	426	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112 ¹⁾	426	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M ¹⁾	479	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML ¹⁾	479	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

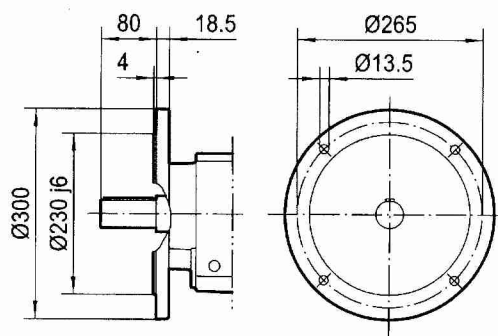
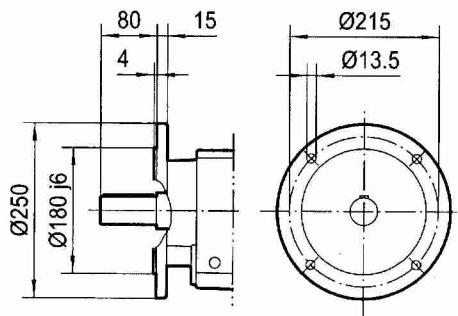
1) Dimension P/2 may protrude past foot mounting surface, please check.

TRF77..



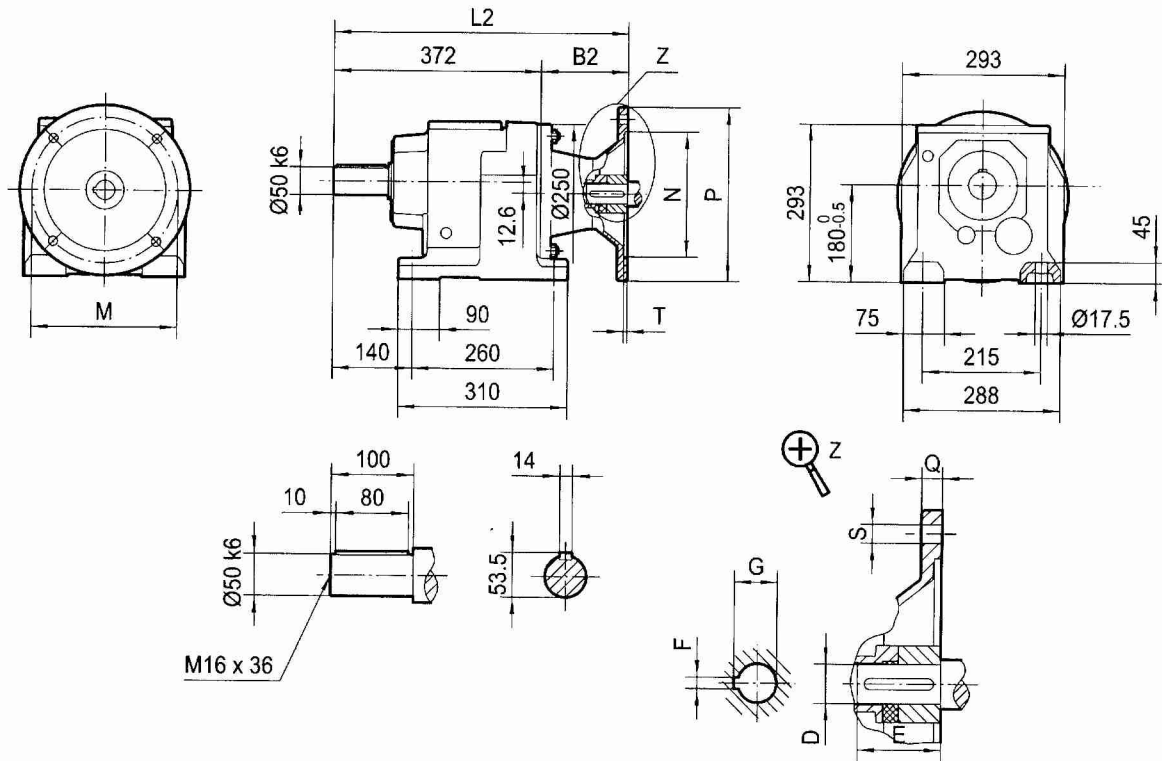
I
Ø250

II
Ø300

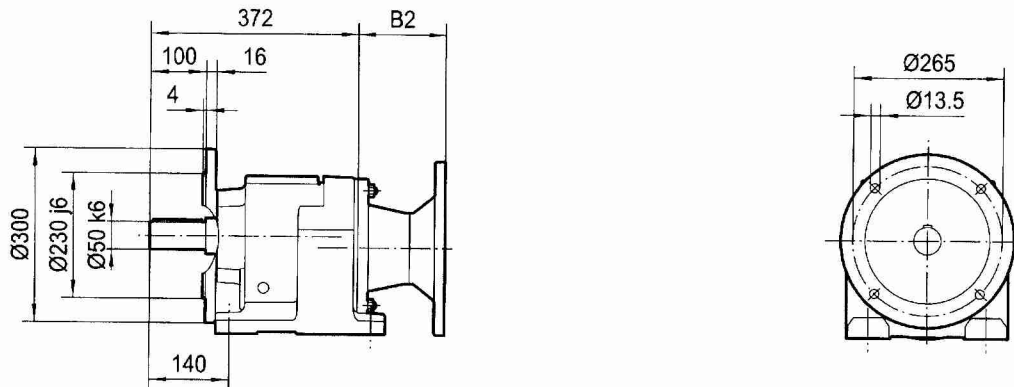


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM63	360	60	11	23	4	12.8	115	95	140	10	4-Ø9	3.5
AM71	360	60	14	30	5	16.3	130	110	160	10	4-Ø9	4
AM80	392	92	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	392	92	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	426	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	426	126	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	479	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	479	179	38	80	10	41.3	265	230	300	16	4-Ø13.5	5

TR87..

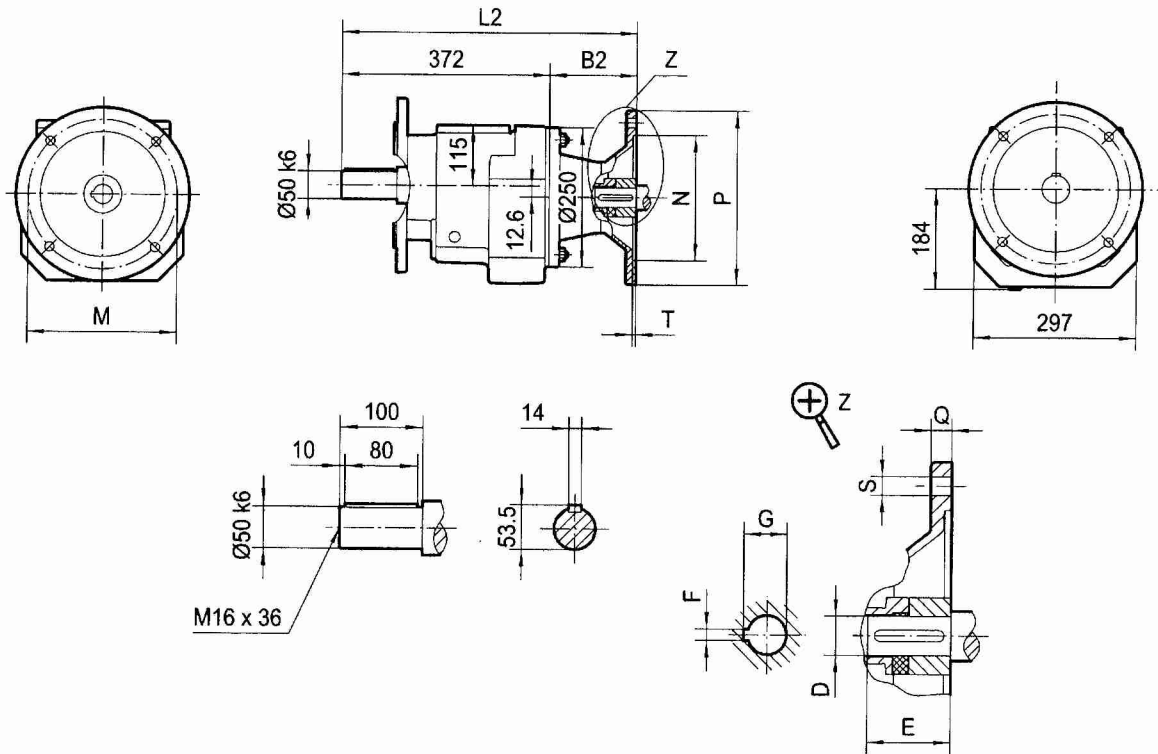


TR87F..

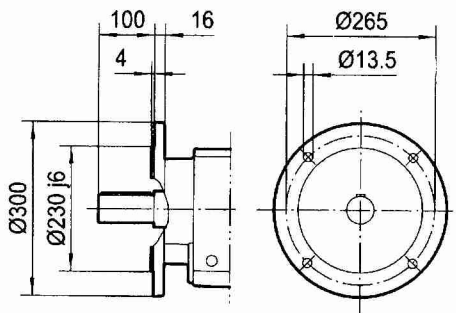


	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM80	459	87	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	459	87	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	493	121	19	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	493	121	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	546	174	28	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	546	174	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM160 ¹⁾	604	232	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
AM180 ¹⁾	604	232	48	110	14	51.8	300	250	350	18	4-Ø17.5	6

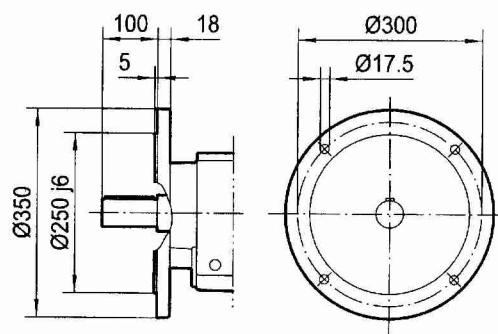
TRF87..



I
Ø300

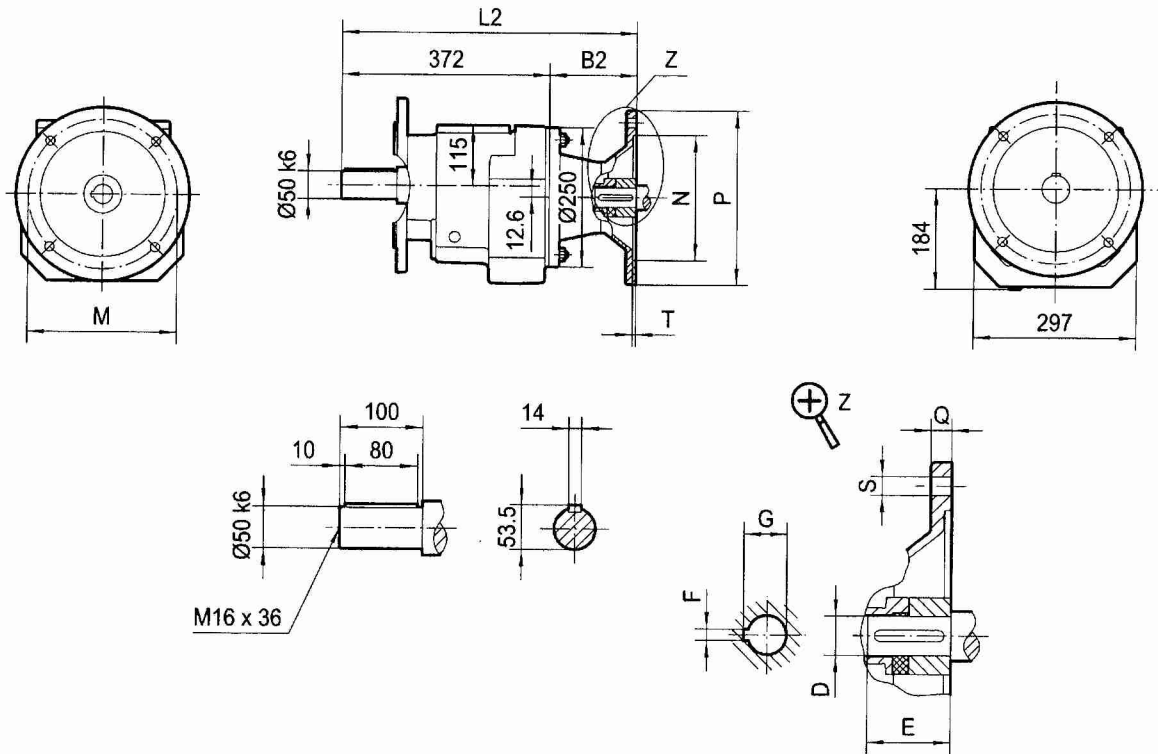


II
Ø350



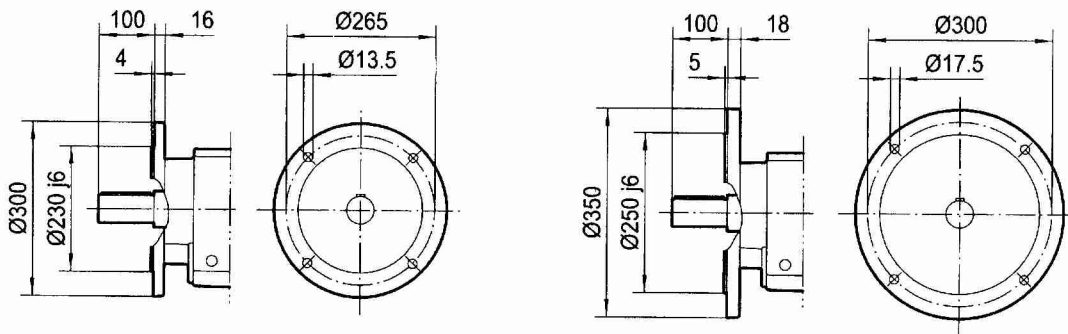
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM80	459	87	19	40	6	21.8	165	130	200	12	4-Ø11	4.5
AM90	459	87	24	50	8	27.3	165	130	200	12	4-Ø11	4.5
AM100	493	121	19	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM112	493	121	28	60	8	31.3	215	180	250	15	4-Ø13.5	5
AM132S/M	546	174	28	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM132ML	546	174	38	80	10	41.3	265	230	300	16	4-Ø13.5	5
AM160	604	232	42	110	12	45.3	300	250	350	18	4-Ø17.5	6
AM180	604	232	48	110	14	51.8	300	250	350	18	4-Ø17.5	6

TR97..



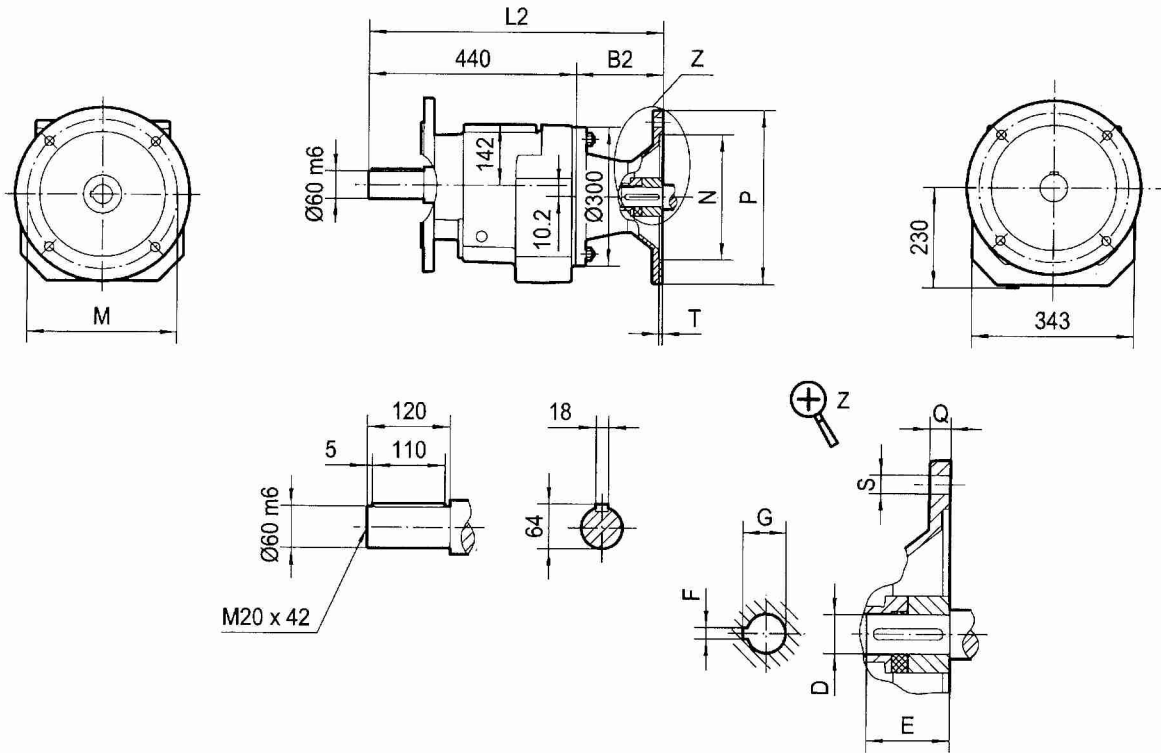
I
Ø300

II
Ø350



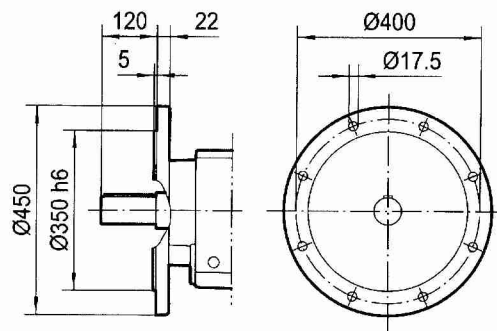
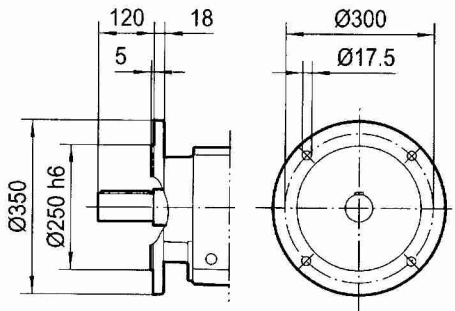
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	556	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM112	556	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM132S/M	609	169	38	80	8	41.3	265	230	300	16	4-Φ13.5	5
AM132ML	609	169	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM160	667	227	42	110	10	45.3	300	250	350	18	4-Φ17.5	6
AM180	667	227	48	110	12	51.8	300	250	350	18	4-Φ17.5	6
AM200	708	268	55	110	14	59.3	350	300	400	20	4-Φ17.5	7

TRF97..



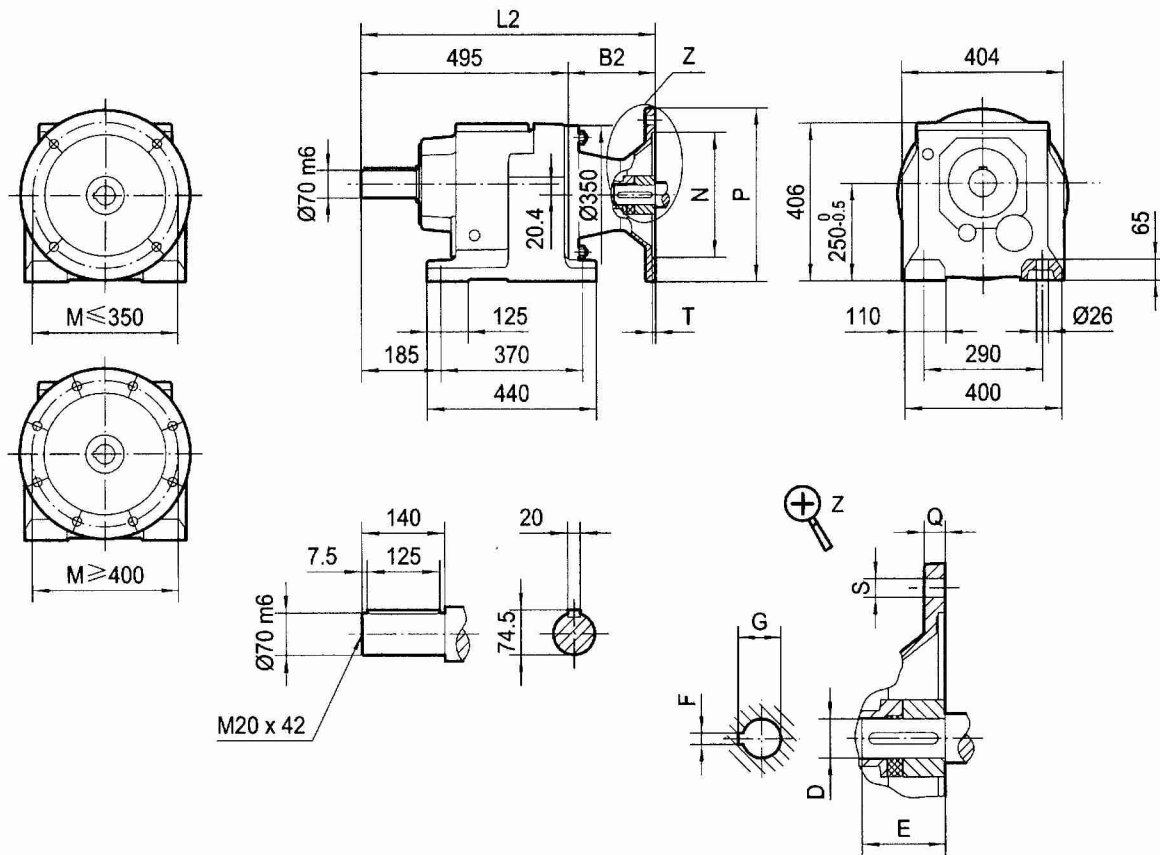
I
Ø350

II
Ø450



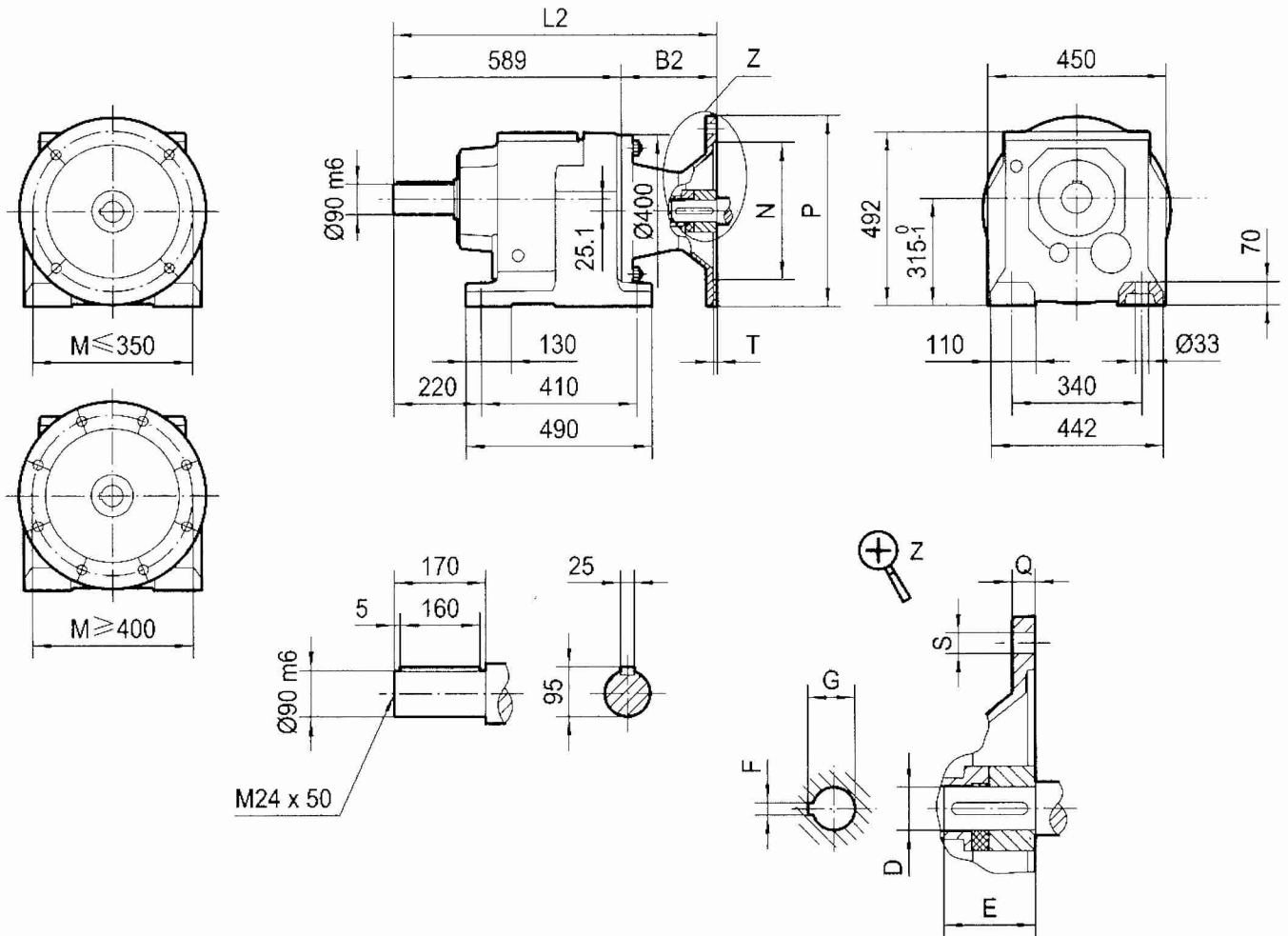
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	556	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM112	556	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
AM132S/M	609	169	38	80	8	41.3	265	230	300	16	4-Φ13.5	5
AM132ML	609	169	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM160	667	227	42	110	10	45.3	300	250	350	18	4-Φ17.5	6
AM180	667	227	48	110	12	51.8	300	250	350	18	4-Φ17.5	6
AM200	708	268	55	110	14	59.3	350	300	400	20	4-Φ17.5	7

TR107..



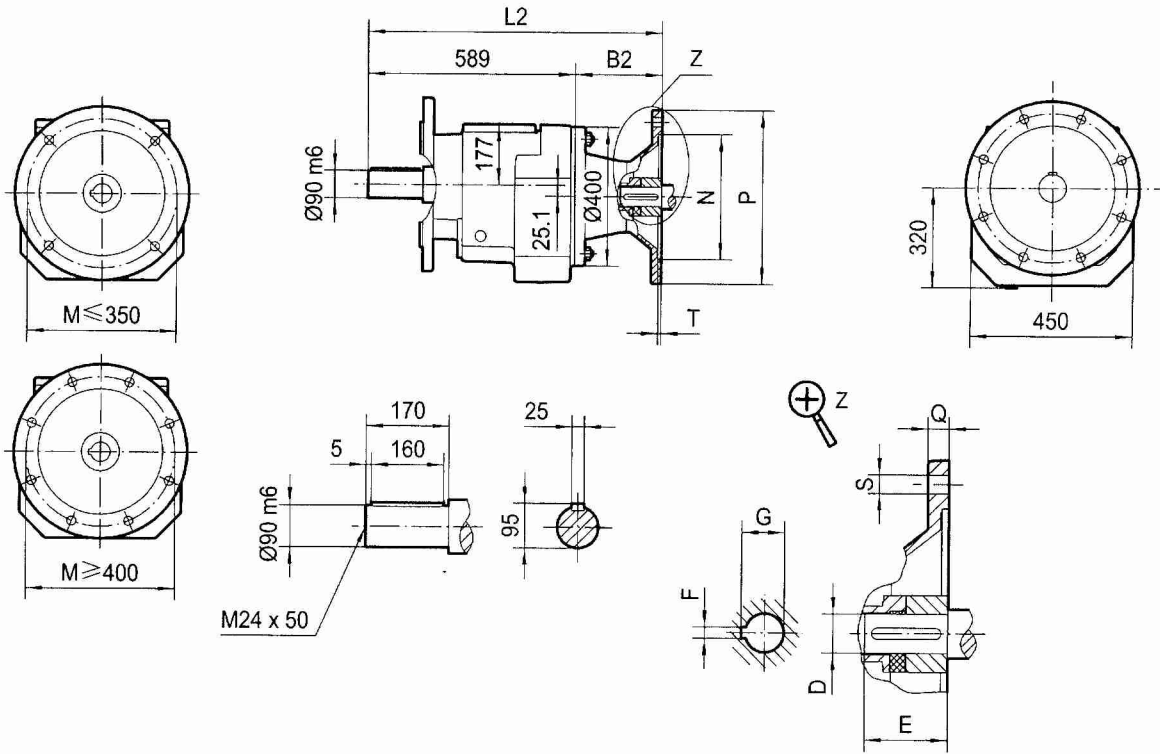
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM100	605	110	28	60	8	31.3	215	180	250	15	4- $\text{Ø}13.5$	5
AM112	605	110	28	60	8	31.3	215	180	250	15	4- $\text{Ø}13.5$	5
AM132S/M	658	163	38	80	8	41.3	265	230	300	16	4- $\text{Ø}13.5$	5
AM132ML	658	163	38	80	10	41.3	265	230	300	16	4- $\text{Ø}13.5$	5
AM160	716	221	42	110	10	45.3	300	250	350	18	4- $\text{Ø}17.5$	6
AM180	716	221	48	110	12	51.8	300	250	350	18	4- $\text{Ø}17.5$	6
AM200	757	262	55	110	14	59.3	350	300	400	20	4- $\text{Ø}17.5$	7
AM225	772	277	60	140	18	64.4	400	350	450	22	8- $\text{Ø}17.5$	7

TR137..



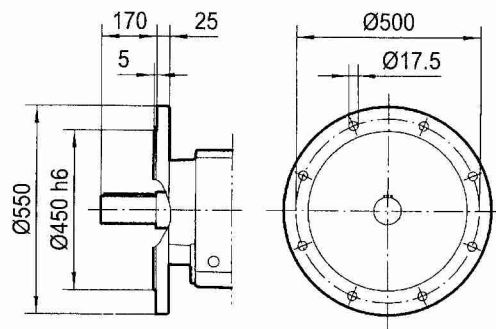
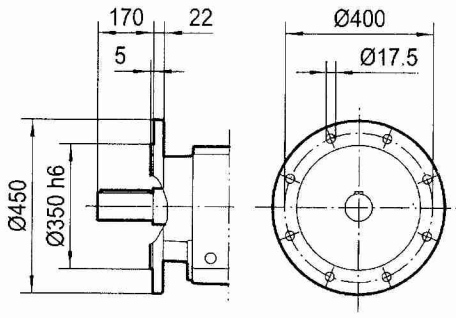
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM132S/M	745	156	38	80	8	41.3	265	230	300	16	4- $\text{Ø}13.5$	5
AM132ML	745	156	38	80	10	41.3	265	230	300	16	4- $\text{Ø}13.5$	5
AM160	803	214	42	110	10	45.3	300	250	350	18	4- $\text{Ø}17.5$	6
AM180	803	214	48	110	12	51.8	300	250	350	18	4- $\text{Ø}17.5$	6
AM200	844	255	55	110	14	59.3	350	300	400	20	4- $\text{Ø}17.5$	7
AM225	859	270	60	140	18	64.4	400	350	450	22	8- $\text{Ø}17.5$	7

TRF137..



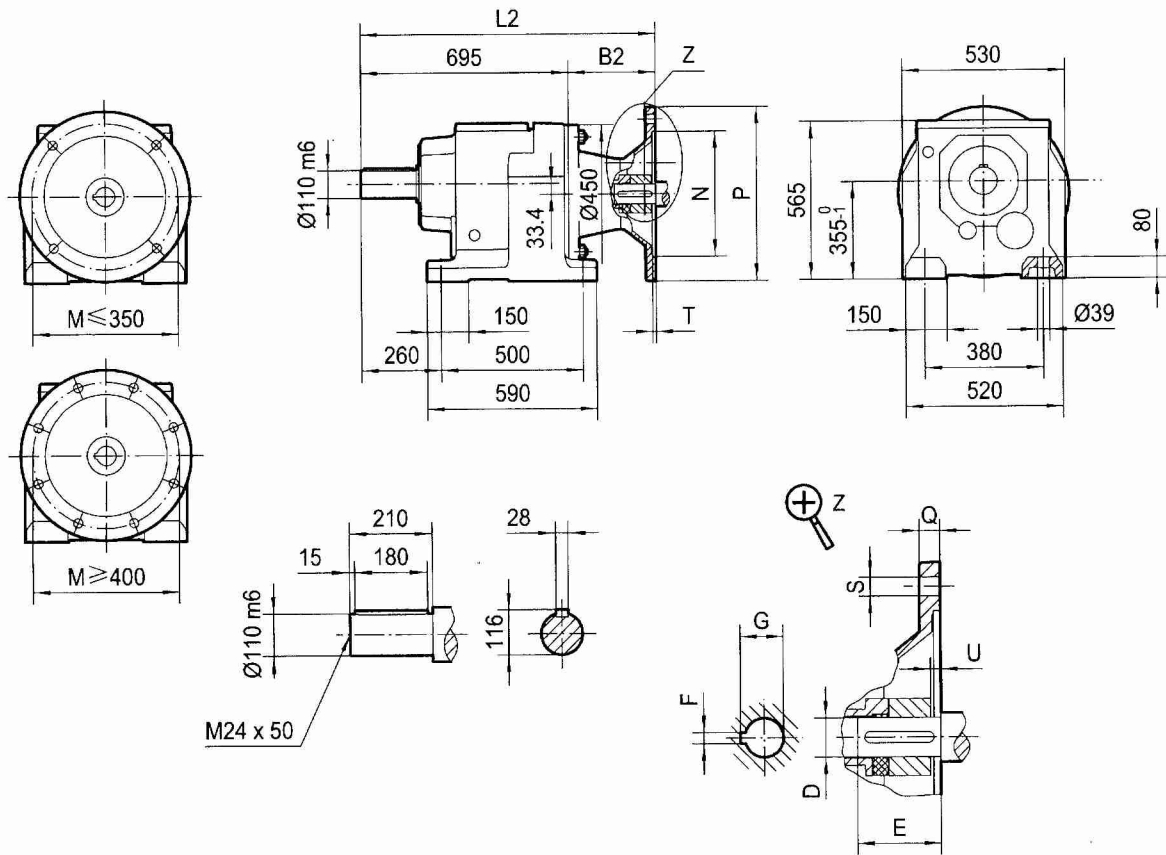
I
Ø450

II
Ø550



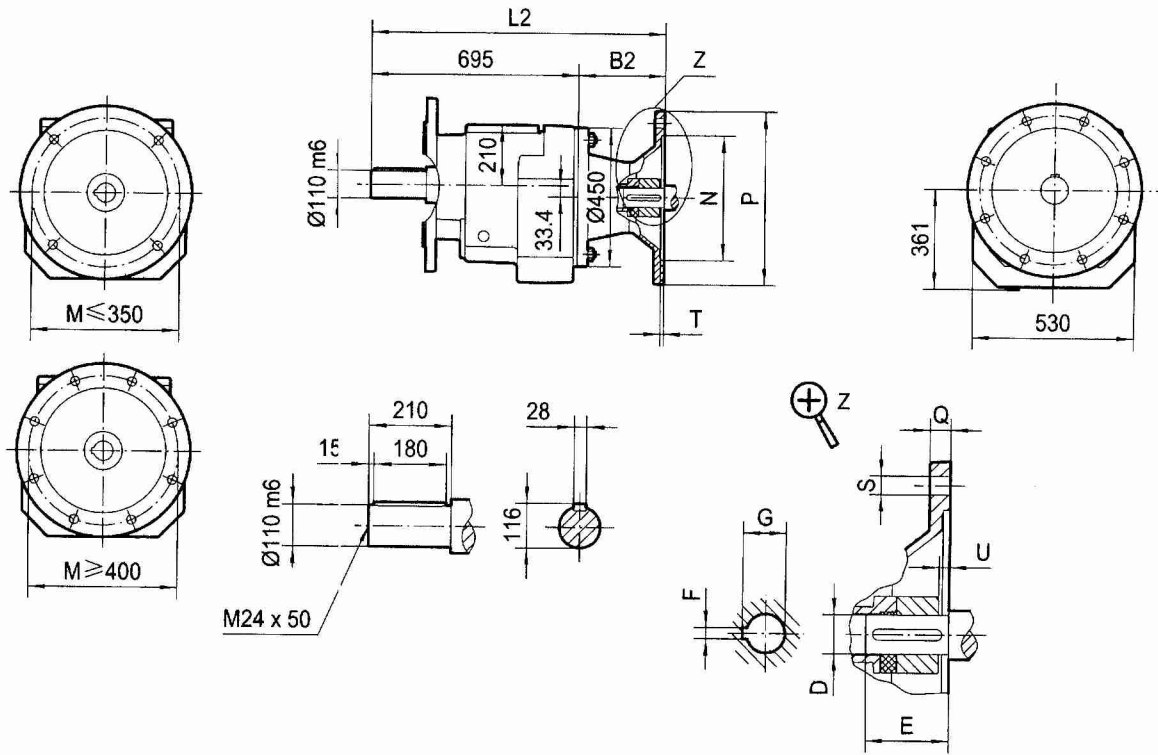
	L2	B2	D	E	F	G	M	N	P	Q	S	T
AM132S/M	745	156	38	80	8	41.3	265	230	300	16	4-Φ13.5	5
AM132ML	745	156	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
AM160	803	214	42	110	10	45.3	300	250	350	18	4-Φ17.5	6
AM180	803	214	48	110	12	51.8	300	250	350	18	4-Φ17.5	6
AM200	844	255	55	110	14	59.3	350	300	400	20	4-Φ17.5	7
AM225	859	270	60	140	18	64.4	400	350	450	22	8-Φ17.5	7

TR147..

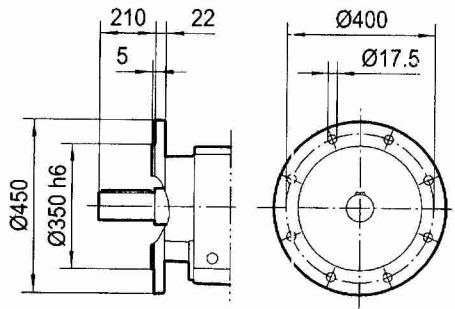


	L2	B2	D	E	F	G	M	N	P	Q	S	T	U
AM132ML	843	148	38	80	10	41.3	265	230	300	16	4- $\text{Ø}13.5$	5	0
AM160	901	206	42	110	12	45.3	300	250	350	18	4- $\text{Ø}17.5$	6	0
AM180	901	206	48	110	14	51.8	300	250	350	18	4- $\text{Ø}17.5$	6	0
AM200	942	247	55	110	16	59.3	350	300	400	20	4- $\text{Ø}17.5$	7	0
AM225	957	262	60	140	18	64.4	400	350	450	22	8- $\text{Ø}17.5$	7	0
AM250	1031	336	65	140	18	69.4	500	450	550	25	8- $\text{Ø}17.5$	7	19
AM280	1031	336	75	140	20	79.9	500	450	550	25	8- $\text{Ø}17.5$	7	19

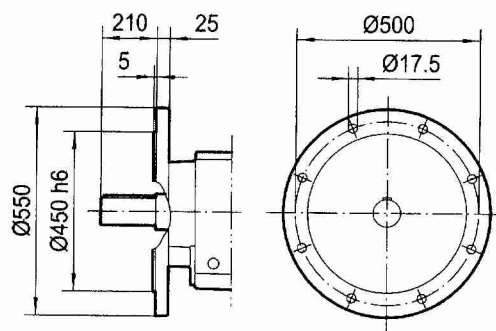
TRF147..



I
Ø450

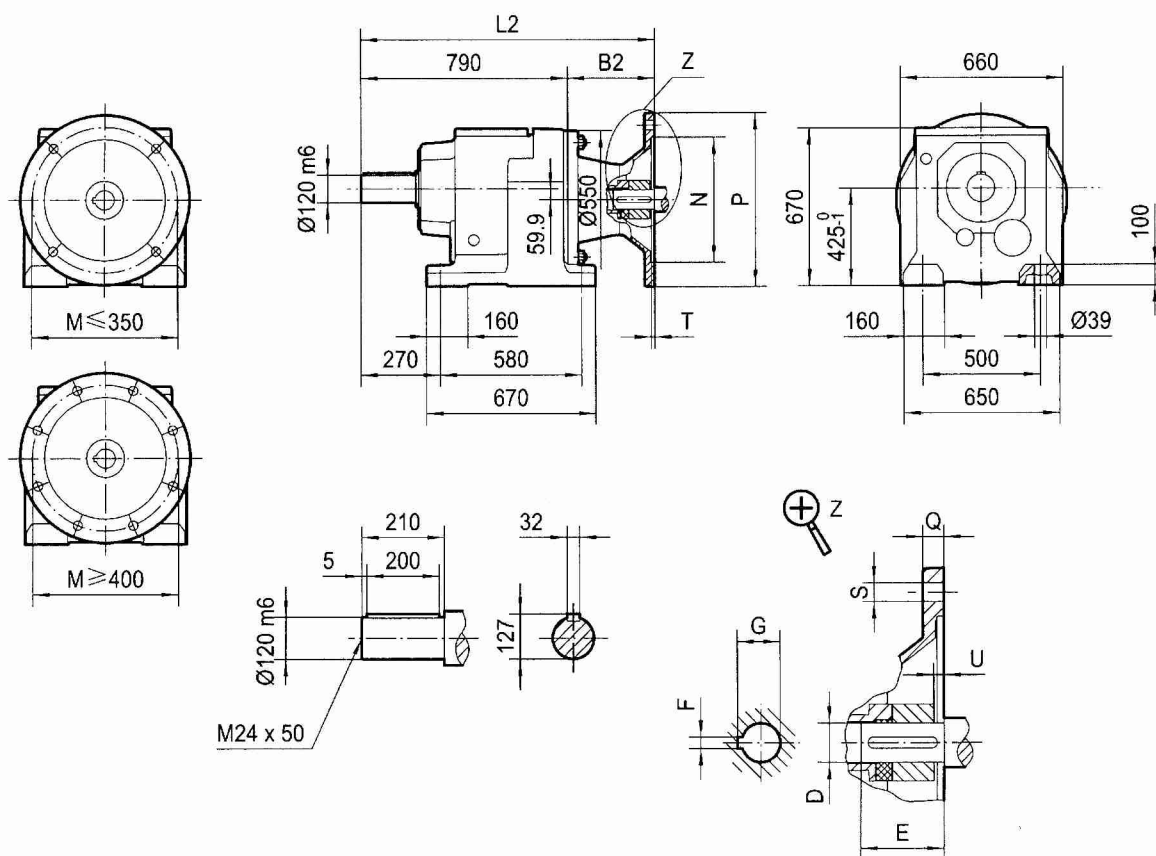


II
Ø550



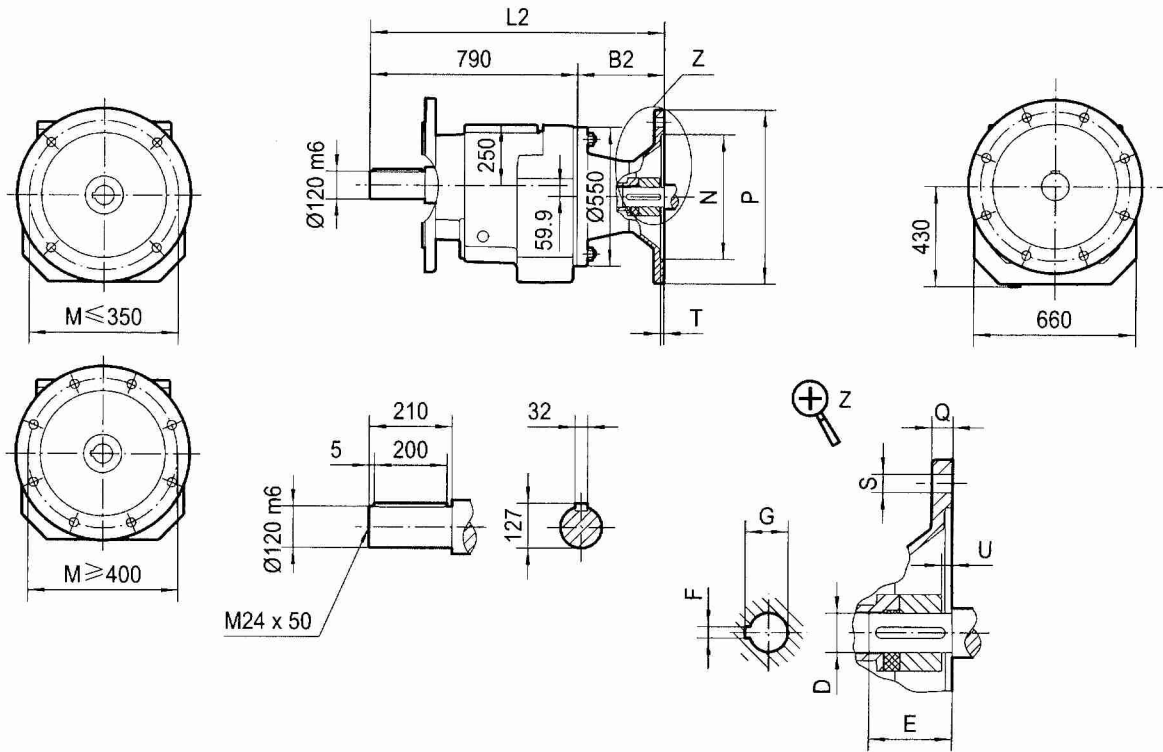
	L2	B2	D	E	F	G	M	N	P	Q	S	T	U
AM132ML	843	148	38	80	10	41.3	265	230	300	16	4-Ø13.5	5	0
AM160	901	206	42	110	12	45.3	300	250	350	18	4-Ø17.5	6	0
AM180	901	206	48	110	14	51.8	300	250	350	18	4-Ø17.5	6	0
AM200	942	247	55	110	16	59.3	350	300	400	20	4-Ø17.5	7	0
AM225	957	262	60	140	18	64.4	400	350	450	22	8-Ø17.5	7	0
AM250	1031	336	65	140	18	69.4	500	450	550	25	8-Ø17.5	7	19
AM280	1031	336	75	140	20	79.9	500	450	550	25	8-Ø17.5	7	19

TR167..



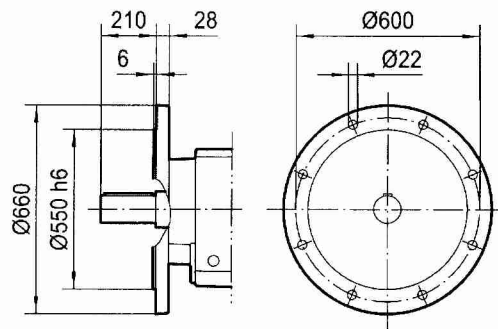
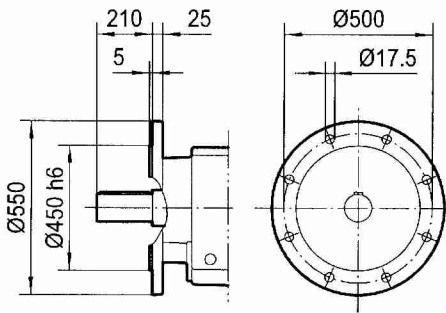
	L2	B2	D	E	F	G	M	N	P	Q	S	T	U
AM160	988	198	42	110	12	45.3	300	250	350	18	4- $\varnothing 17.5$	6	0
AM180	988	198	48	110	14	51.8	300	250	350	18	4- $\varnothing 17.5$	6	0
AM200	1029	239	55	110	16	59.3	350	300	400	20	4- $\varnothing 17.5$	7	0
AM225	1044	254	60	140	18	64.4	400	350	450	22	8- $\varnothing 17.5$	7	0
AM250	1118	328	65	140	18	69.4	500	450	550	25	8- $\varnothing 17.5$	7	19
AM280	1118	328	75	140	20	79.9	500	450	550	25	8- $\varnothing 17.5$	7	19

TRF167..



I
Ø550

II
Ø660



	L2	B2	D	E	F	G	M	N	P	Q	S	T	U
AM160	988	198	42	110	12	45.3	300	250	350	18	4-Ø17.5	6	0
AM180	988	198	48	110	14	51.8	300	250	350	18	4-Ø17.5	6	0
AM200	1029	239	55	110	16	59.3	350	300	400	20	4-Ø17.5	7	0
AM225	1044	254	60	140	18	64.4	400	350	450	22	8-Ø17.5	7	0
AM250	1118	328	65	140	18	69.4	500	450	550	25	8-Ø17.5	7	19
AM280	1118	328	75	140	20	79.9	500	450	550	25	8-Ø17.5	7	19

TR ..AM

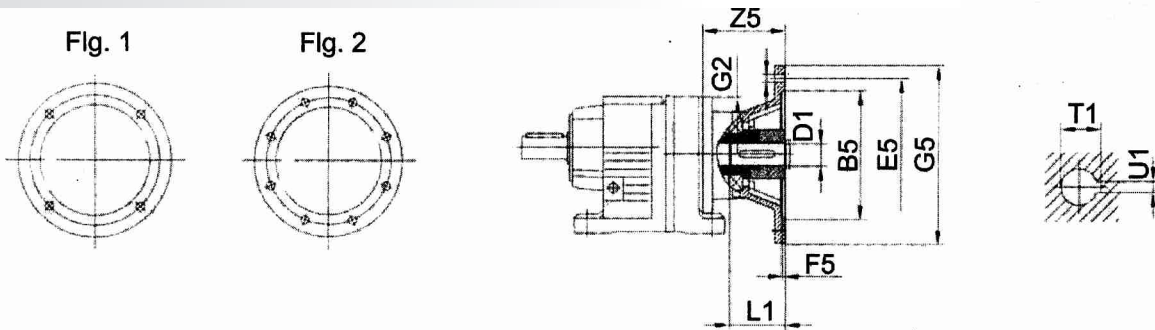


		Fig	B5	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1					
TR .. 27 TR .. 37	AM63	1	95	115	3.5	120	140	M8	72	11	23	12.8	4					
	AM7 ¹⁾		110	130			14			30	16.3	5						
	AM80 ¹⁾		130	165	4.5		200	M10	106	19	40	21.8	6					
	AM90 ¹⁾									24	50	27.3	6					
TR..47 TR..57 TR..67	AM63	1	95	115	5.3	160	140	M8	66	11	23	12.8	4					
	AM71		110	130			14			30	16.3	5						
	AM80		130	165	4.5		200	M10	99	19	40	21.13	6					
	AM90		180	215						5	250	M12	134	24	50	27.3	8	
	AM100 ¹⁾																	
	AM112 ¹⁾																	
TR..77	AM63	1	95	95	3.5	200	140	M8	60	11	23	12.8	4					
	AM71		110	110			14			30	16.3	5						
	AM80		130	165	4.5		200	M10	92	19	40	21.8	6					
	AM90		180	215						5	250	M12	126	28	60	31.3	8	
	AM100 ¹⁾																	
	AM112 ¹⁾																	
	AM132S ¹⁾		230	265	5		300	M12	179	38	80	41.3	10					
	AM132M ¹⁾																	
	AM132ML ¹⁾																	
TR..87	AM63	1	130	165	4.5	250	200	M10	87	19	40	21.8	6					
	AM90		24	50			27.3			8								
	AM100		180	215	5		250	M12	121	26	60	31.3	8					
	AM112		230	265						300	M12	174	38	80	41.3	10		
	AM132S																	
	AM132M																	
	AM132ML																	
	AM160 ¹⁾		250	300	6		350	M16	232	42	110	45.3	6					
AM180 ¹⁾			46	51.8		8												
TR..97	AM100	1	180	215	5	300	250	M12	116	213	60	31.3	8					
	AM112		230	265			300			M12	169	36	80	41.3	10			
	AM132S																	
	AM132M																	
	AM132ML																	
	AM160		250	300	6		350	M16	227	42	110	45.3	12					
	AM180 ¹⁾									48		51.8	14					
	AM200 ¹⁾		300	350	7		400	M16	268	55	140	59.3	16					
AM225 ¹⁾	350	400	203	64.4		18												

TR ..AM

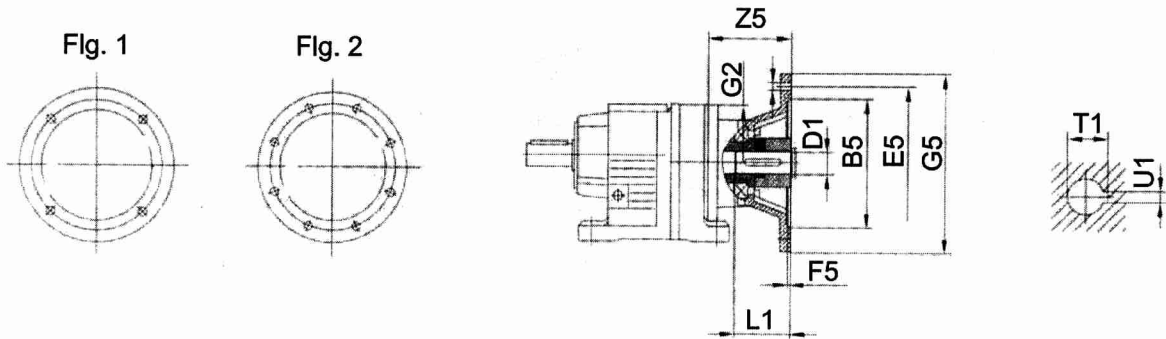


		Fig	B5	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
TR .107	AM100	1	180	215	5	350	250	M12	110	28	60	31.3	8
	AM112												
	AM132S												
	AM132M		230	265	6		300	M16	163	38	80	41.3	10
	AM132ML												
	AM160		250	300	6		400	M16	221	42	110	45.3	12
	AM180												
	AM200												
AM225	2	350	400	7	450	277	60	140	64.4	18			
TR .137	AM132S	1	230	265	5	400	300	M12	156	38	80	41.3	10
	AM132M												
	AM132ML												
	AM160		250	300	6		350	M16	214	42	110	45.3	12
	AM180												
	AM200												
	AM225	2	350	400	7	450	270	60	140	64.4	18		
TR .147	AM132S	1	230	265	5	450	300	M12	214	38	80	41.3	10
	AM132M												
	AM132ML												
	AM160	250	300	6	350		M16	206	42	110	45.3	12	
	AM180												
	AM200	300	350	7	400		M16	247	55	140	59.3	16	
	AM225	350	400		450								262
	AM250	2	450	500	7		550	336	65	140	69.4		
AM280						75			79.9	20			
TR .167	AM160	1	250	300	6	550	350	M16	198	42	110	45.3	12
	AM180												
	AM200												
	AM225	2	350	400	7		400	M16	239	55	140	59.3	16
	AM250												
	AM280												
						400							
						550							

Types of Lubrication

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

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.

TRX..

Gear Units	Fill quantity in Liters						unit: (L)
	M1**	M2**	M3	M4	M5	M6	
TRX57	0.60	0.80	1.30	1.30	0.90	0.90	
TRX67	0.80	0.80	1.70	1.90	1.10	1.10	
TRX77	1.10	1.50	2.60	2.70	1.60	1.60	
TRX87	1.70	2.50	4.80	4.80	2.90	2.90	
TRX97	2.10	3.40	7.40	7.00	4.80	4.80	
TRX107	3.90	5.60	11.60	11.90	7.70	7.70	

TRXF..

Gear Units	Fill quantity in Liters (L)					
	M1**	M2**	M3	M4	M5	M6
TRXF57	0.50	0.80	1.10	1.10	0.70	0.70
TRXF67	0.70	0.80	1.50	1.40	1.00	1.00
TRXF77	0.90	1.30	2.40	2.00	1.60	1.60
TRXF87	1.60	1.95	4.90	3.95	2.90	2.90
TRXF97	2.10	3.70	7.10	6.30	4.80	4.80
TRXF107	3.10	5.70	11.20	9.30	7.20	7.20

TR.. , TR..F

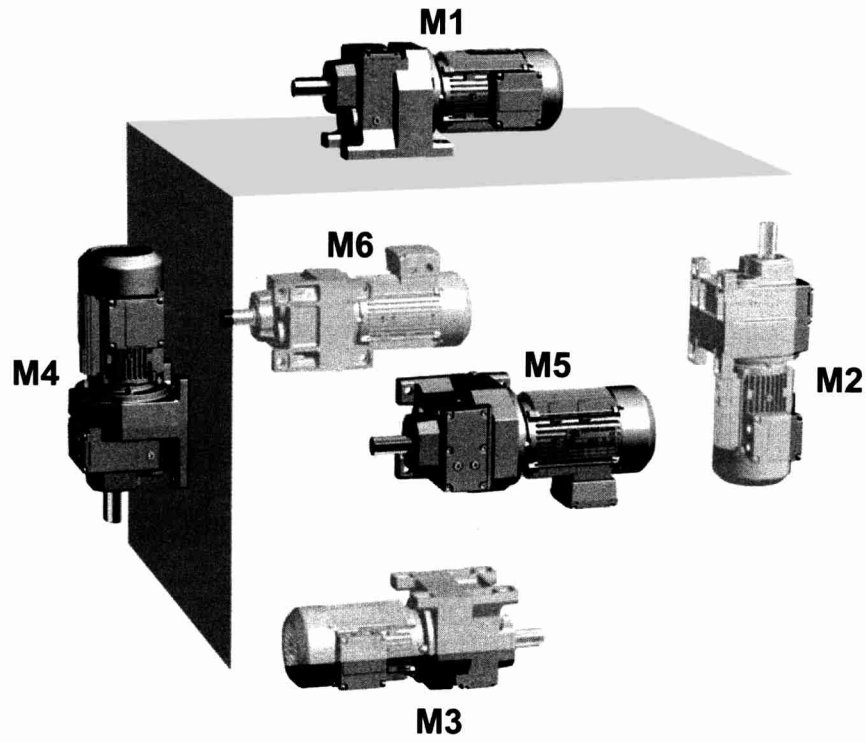
Gear Units	Fill quantity in Liters (L)					
	M1**	M2**	M3	M4	M5	M6
TR27/ TR27F	0.25 / 0.40	0.7	0.5	0.7	0.5	0.5
TR37/ TR37F	0.30 / 0.95	0.85	0.95	1.05	0.75	0.95
TR47/ TR47F	0.70 / 1.50	1.6	1.5	1.65	1.5	1.5
TR57/ TR57F	0.80 / 1.70	1.9	1.7	2.1	1.7	1.7
TR67/ TR67F	1.10 / 2.30	2.60 / 3.50	2.8	3.2	1.8	2
TR77/ TR77F	1.20 / 3.00	3.80 / 4.10	3.6	4.1	2.5	3.4
TR87/ TR87F	2.30 / 6.0	6.7 / 8.2	7.2	7.7	6.3	6.5
TR97	4.60 / 9.8	11.7 / 14.0	11.7	13.4	11.3	11.7
TR107	6.0 / 13.7	16.3	16.9	19.2	13.2	15.9
TR137	10.0 / 25.0	28	29.5	31.5	25	25
TR147	15.4 / 40.0	46.5	48	52	39.5	41
TR167	27.0 / 70.0	82	78	88	66	69

TRF.. , TRZ..

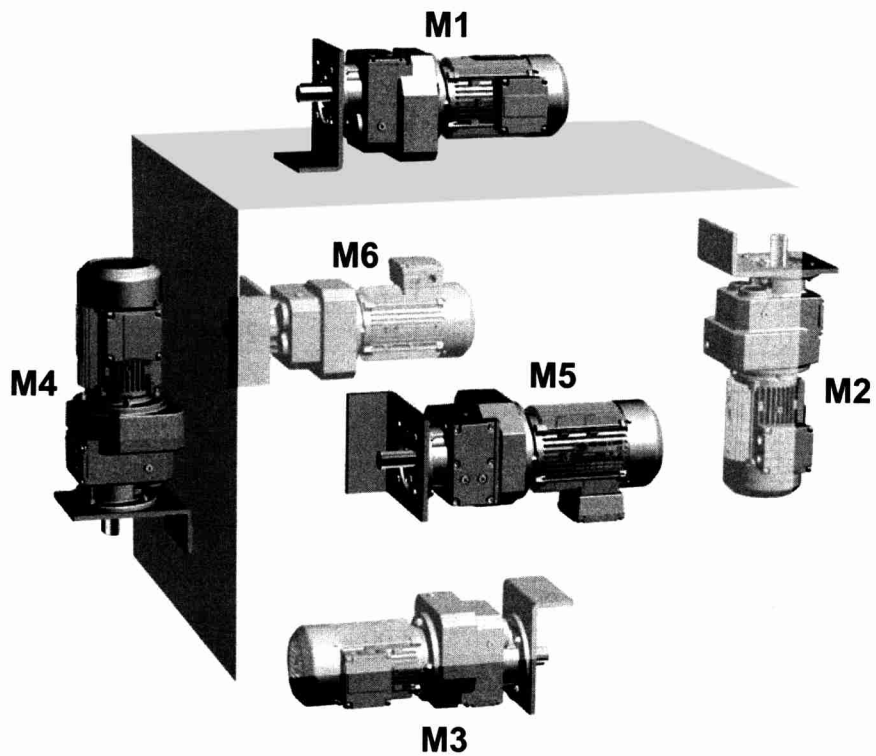
Gear Units	Fill quantity in Liters (L)					
	M1**	M2**	M3	M4	M5	M6
TRF/TRZ27	0.25 / 0.40	0.70	0.50	0.70	0.50	0.50
TRF/TRZ37	0.35 / 0.95	0.90	0.95	1.05	0.75	0.95
TRF/TRZ47	0.65 / 1.50	1.60	1.50	1.65	1.50	1.50
TRF/TRZ57	0.80 / 1.70	1.80	1.70	2.00	1.70	1.70
TRF/TRZ67	1.20 / 2.50	2.70 / 3.60	2.70	2.60	1.90	2.10
TRF/TRZ77	1.20 / 2.60	3.80 / 4.10	3.30	4.10	2.40	3.00
TRF/TRZ87	2.40 / 6.0	6.8 / 7.9	7.10	7.70	6.30	6.40
TRF97	5.1 / 10.2	11.9 / 14.0	11.20	14.00	11.20	11.80
TRF107	6.3 / 14.9	15.90	17.00	19.20	13.10	15.90
TRF137	9.5 / 25.0	27.00	29.00	32.50	25.00	25.00
TRF147	16.4 / 42.0	47.00	48.00	52.00	42.00	42.00
TRF167	26.0 / 70.0	82.00	78.00	88.00	65.00	71.00

** The large gear unit of multi-stage gear units must be filled with the larger oil volume.




TR.. INSTALLATION POSITIONS

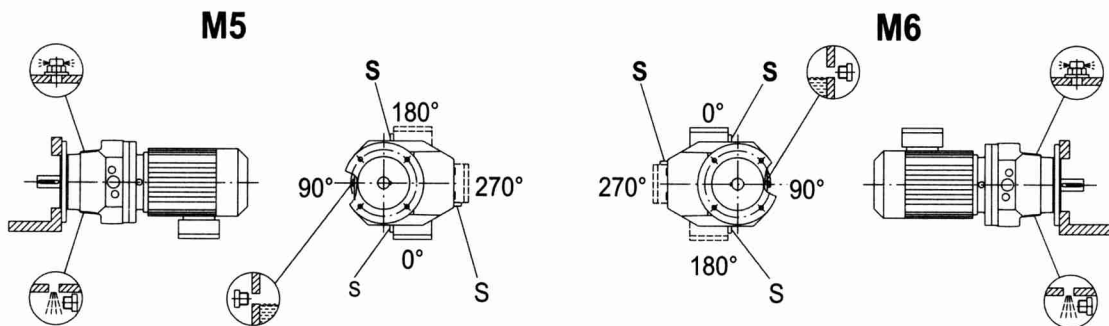
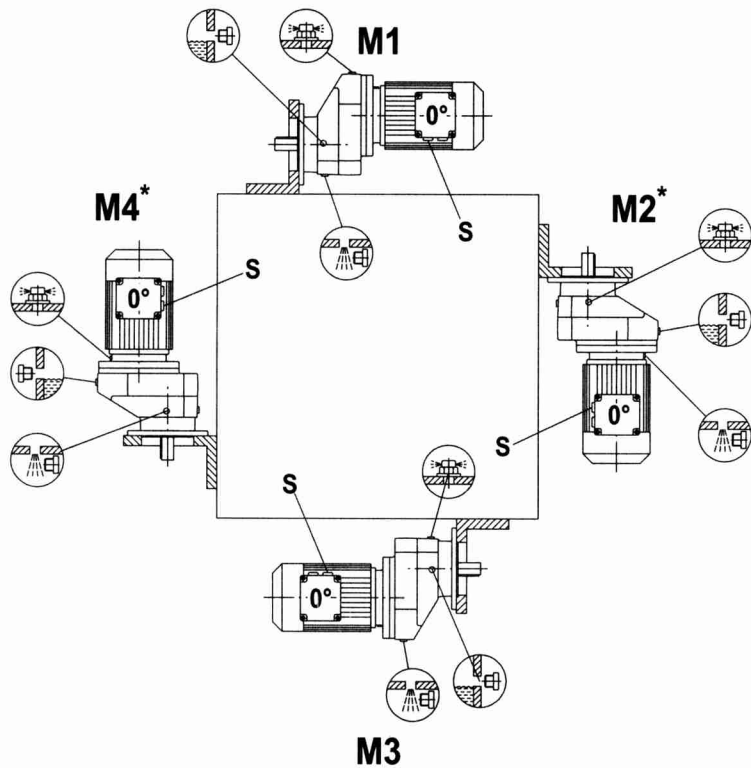
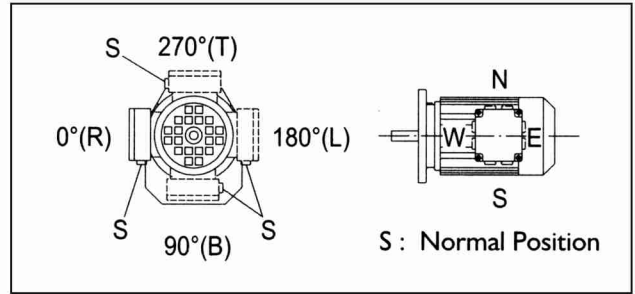


TRF.. INSTALLATION POSITIONS






TRX57 - TRX107

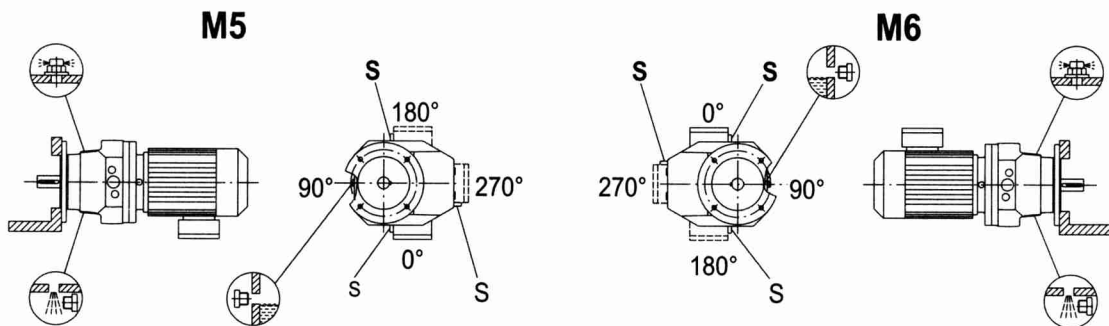
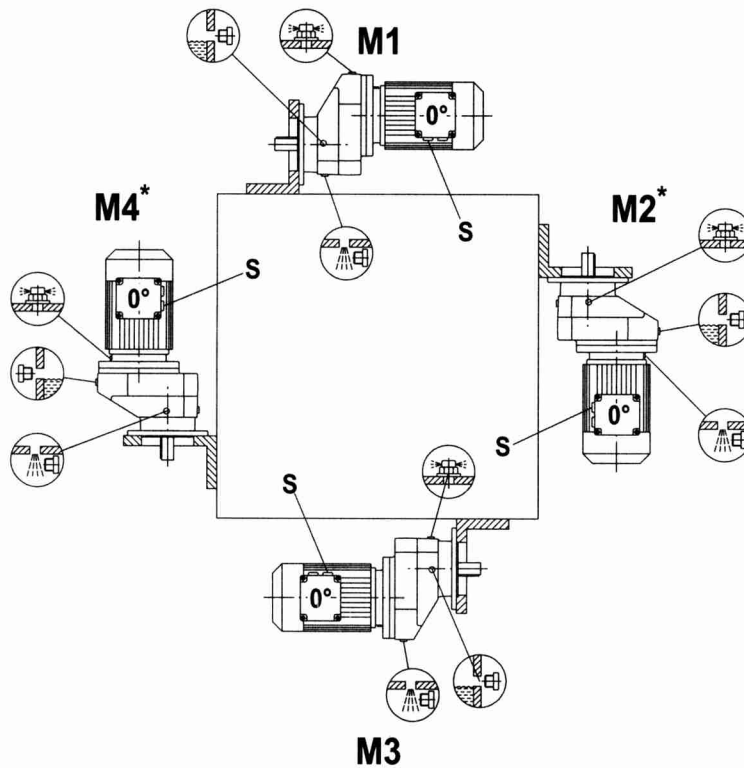
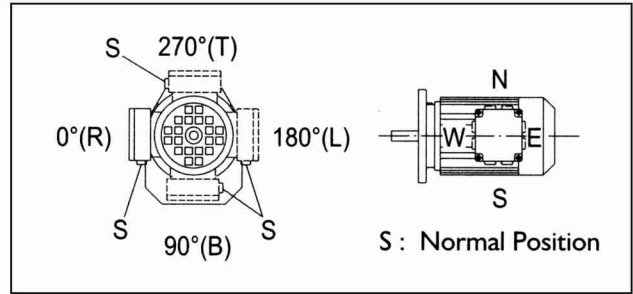
Symbol	Meaning
	Breather Valve
	Oil Level Plug
	Oil Drain Plug



MOUNTING POSITION	GEAR UNIT SIZE	INPUT SPEED [1/MIN]
M2* , M4*	97...107	>2500
	>107	>1500

TRXF57 - TRXF107

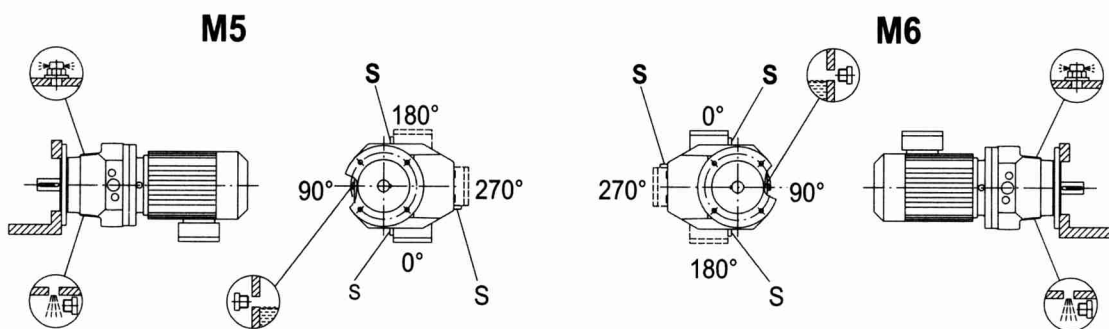
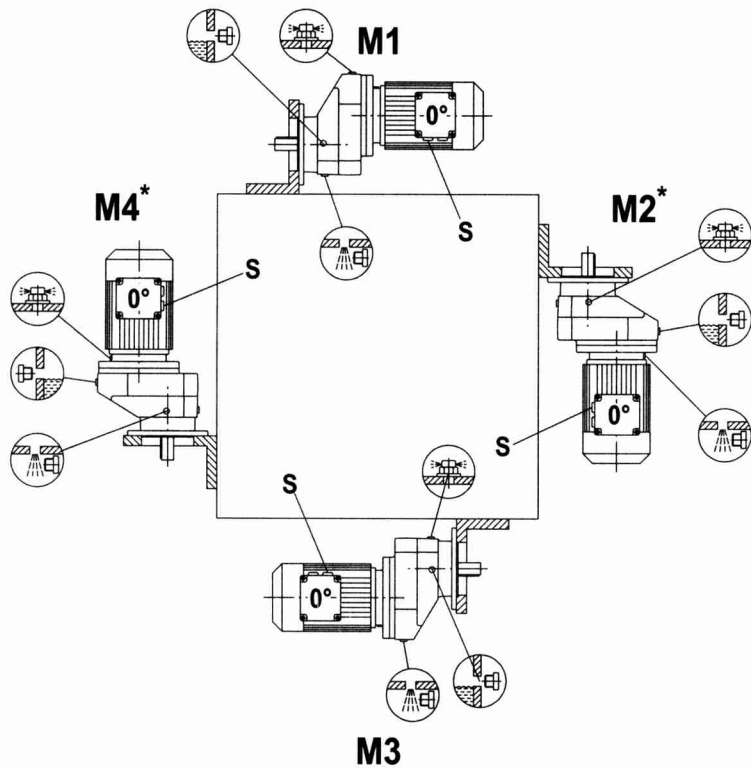
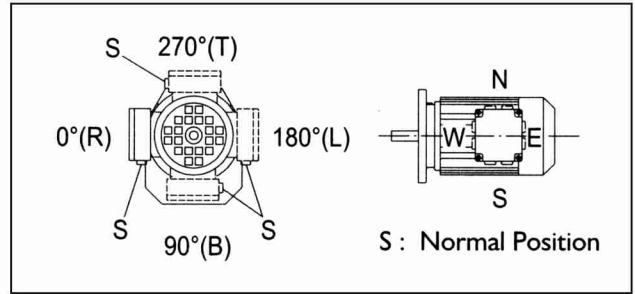
Symbol	Meaning
	Breather Valve
	Oil Level Plug
	Oil Drain Plug



MOUNTING POSITION	GEAR UNIT SIZE	INPUT SPEED [1/MIN]
M2* , M4*	97...107	>2500
	>107	>1500

TR27 - TR167

Symbol	Meaning
	Breather Valve
	Oil Level Plug
	Oil Drain Plug

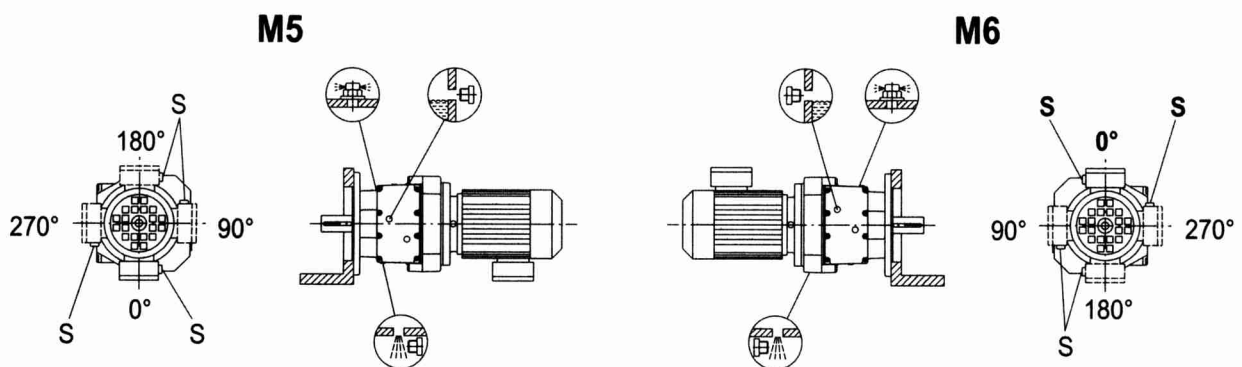
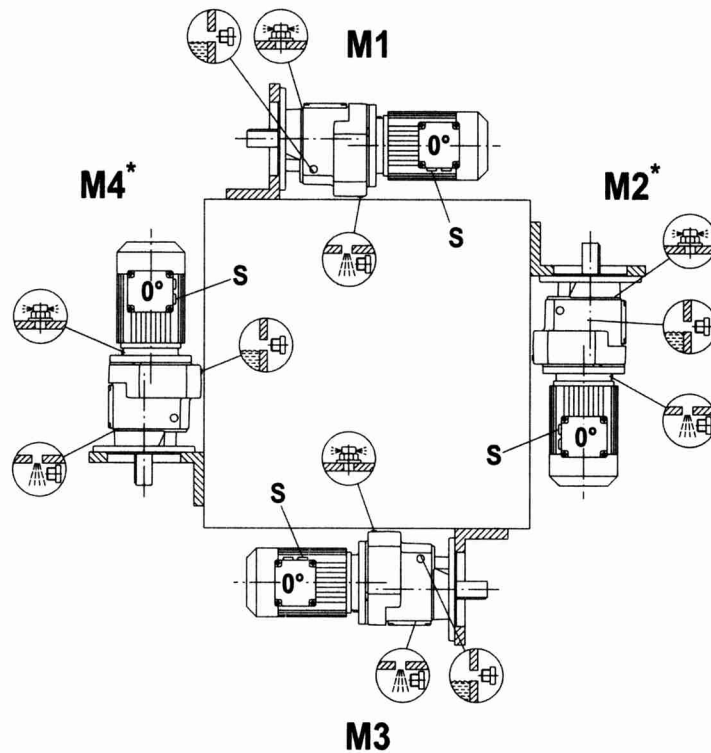
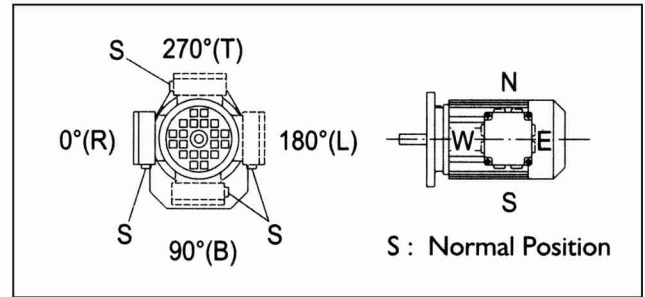


MOUNTING POSITION	GEAR UNIT SIZE	INPUT SPEED [1/MIN]
M2*, M4*	97...107	>2500
	>107	>1500

- TR27 **M1, M3, M5, M6**
- TR27
- TR47, TR57 **M5**

TRF27 - TRF167




Symbol	Meaning
	Breather Valve
	Oil Level Plug
	Oil Drain Plug

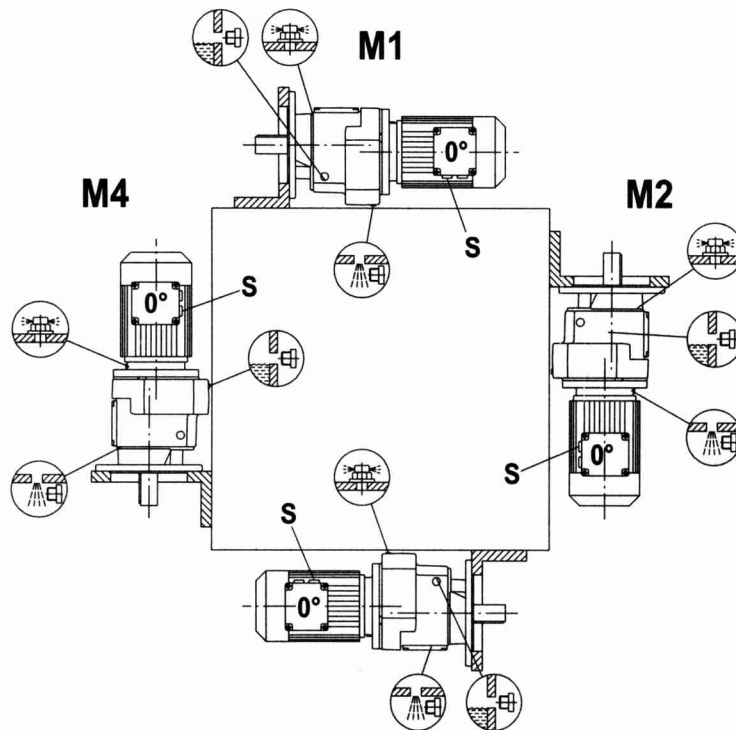
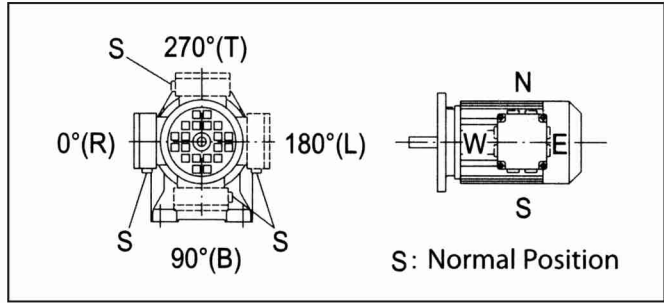


MOUNTING POSITION	GEAR UNIT SIZE	INPUT SPEED [1/MIN]
M2*, M4*	97...107	>2500
	>107	>1500

TRF27		M1, M3, M5, M6
TRF27		
TRF47, TRF57		M5

TR27F - TR87F

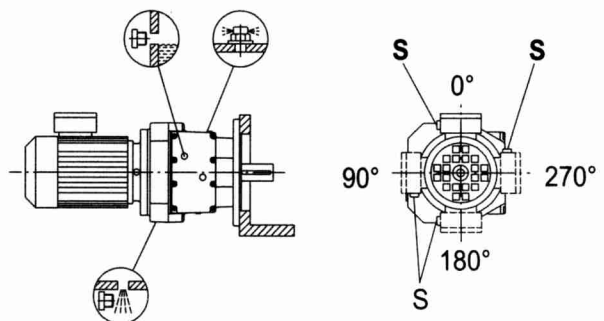
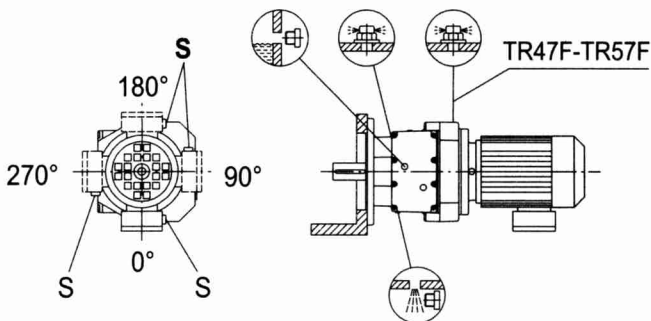
Symbol	Meaning
	Breather Valve
	Oil Level Plug
	Oil Drain Plug



M3

M5

M6



TR27F  **M1, M3, M5, M6**

TR27F  

TR47F, TR57F  **M5**

INSATALLATIONS METHODS

1) Preparation before installation :

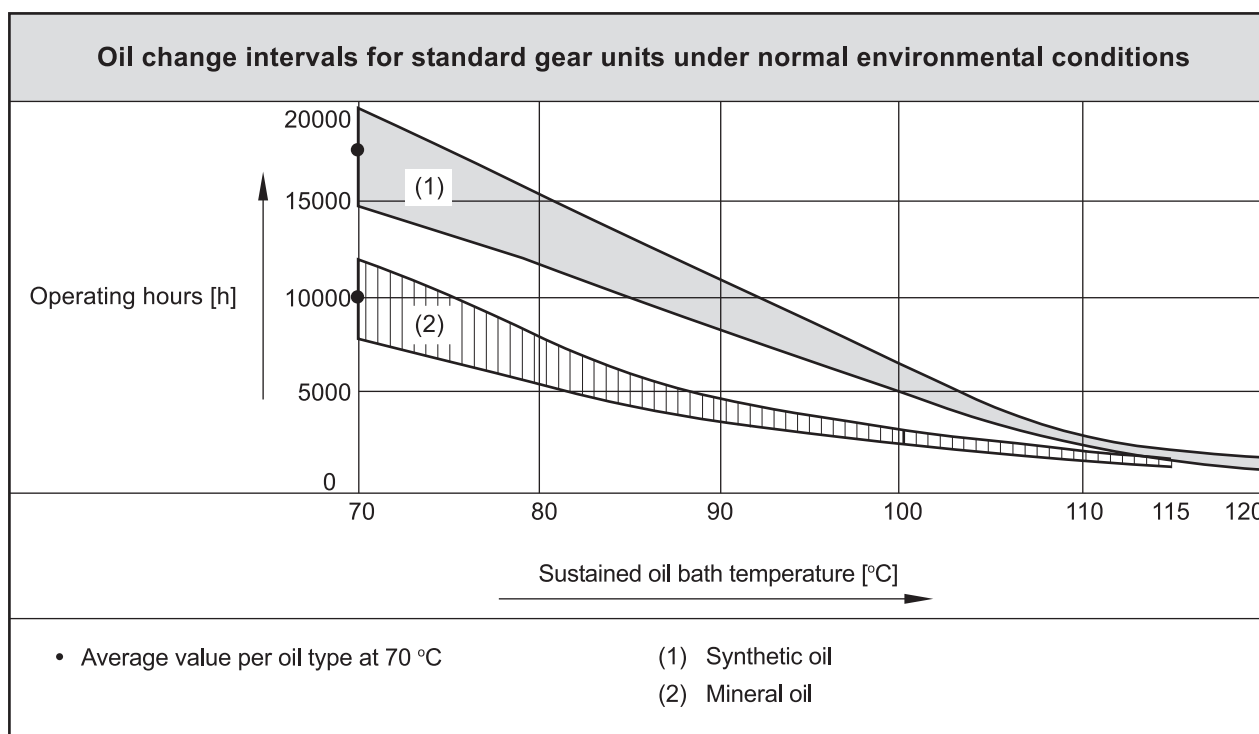
- a). Check if the data on the nameplates of the gearmotor matches the voltage supply system.
- b). Check if the drive has not been damaged during transportation and storage.
- c). For standard gear unit, the ambient temperature must be in accordance with the corresponding lubricant table.
- d). The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

2). The installation of the gear units:

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

MAINTENANCE

- 1). Gear units TR27.. have lubricants for life and are therefore maintenance-free.
- 2). For other type gear units, first oil change should be after about 300 hours (run-in period). The right lotion is required to clean the gear units with care. Never mix the synthetic oil and mineral oil together.
- 3). Every 3000 working time, at least every 6 months, you have to check the oil and oil level, the seals visually for leakage. For IEC input gear units, the elastomer should be tested or replaced if necessary.
- 4). Depending on the operating conditions (see chart below), every 3 years at the latest for inspection is needed. Then change the mineral oil and replace the bearing grease.
- 5). Depending on the operating conditions, change the oil seals on output shaft.
- 6). Once the malfunctions appear, stop disassembling the parts, and firstly please contact the customer service (the information about specification, delivery date, series number, time used, name of machine, machine manufacturer, malfunction problems is required) , then take the reasonable measures.



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.

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 bluepainting as standard.
- 3). quantity ordered.
- 4). other special requirements.
- 5). company, contact and telephone.

GEAR UNIT MALFUNCTIONS

Problem	Possible cause	Remedy
Unusual, regular running noise	A. Meshing/grinding noise: Bearing damage. B. Knocking noise: irregularity in the gearng	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).

IEC COUPLINGS MALFUNCTIONS

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

Charge Characteristic Chart (for reference)

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

BAR TRANSMISSION EQUIPMENT		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 stir 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	C
Power shaft	A	Kneading machine	C
** Forging machine	C	** Roller machine	B
Drop hammer	C	STONE PORCELAIN CLAY PROSSEING EQP	
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 EQUIPMENT	
** 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.

