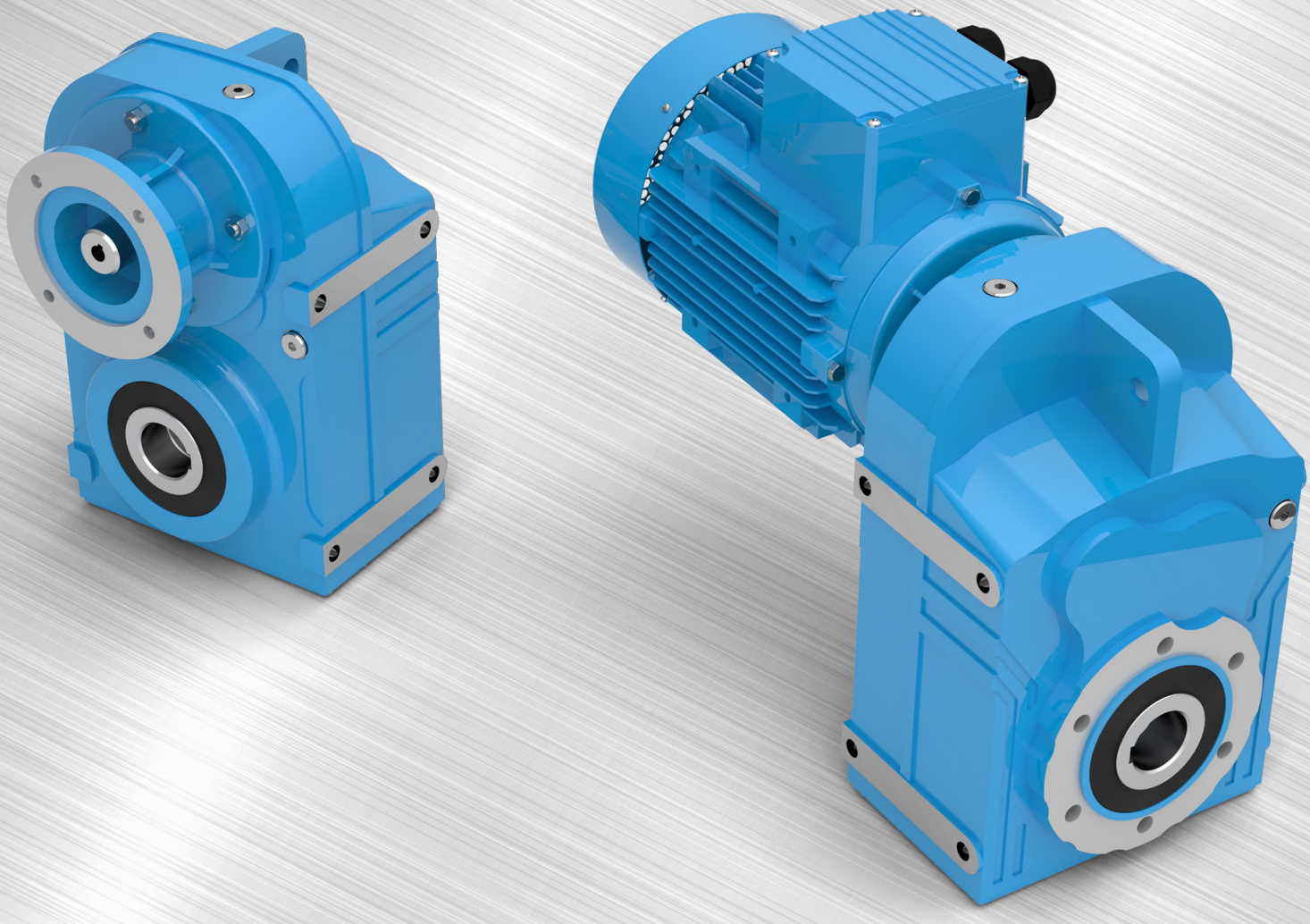
DANA BREVINI® Motion Systems

DC3A1D1_0000000
12 2021

Product Catalog

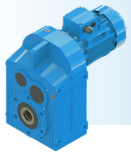
Brevini® Gearmotors
D Series

Torques from 130 Nm to 18.000 Nm



Parallel Shaft Helical Gearboxes

Helical gear units, input and output shafts are parallel and the gearmotor can be shaft, flange or foot mounted.
Both hollow and solid output shaft are available



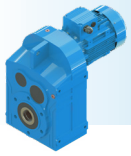
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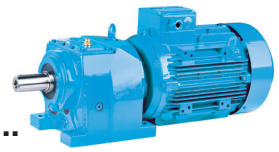


c_t	: Coefficient of switch on time.	
f_s	: Service factor	
F_{ama}	: Permissible axial loads which can be applied to output shafts	[kN]
F_{ame}	: Permissible axial loads which can be applied to input shafts	[kN]
F_{qam}	: Permissible radial loads which can be applied to output shafts	[N]
F_{qem}	: Permissible radial loads which can be applied to input shafts	[N]
F_{qa}	: Radial loads applied to the output shaft	[N]
F_{qe}	: Radial loads applied to the input shafts	[N]
F_q	: Radial loads on output shaft	[N]
F_a	: Axial loads on output shaft	[N]
i	: Transmission ratio	
J_{ext}	: The total inertia of rotating parts at outside reduced at the motor shaft	[kgm^2]
M_2	: Output torque	[Nm]
M_a	: Nominal torque	[Nm]
n_1	: Input speed of gearbox	[rpm]
n_2	: Output speed of gearbox	[rpm]
P_2	: Output power	[kW]
P_{eq}	: Equivalent power	[kW]
P_e	: Nominal power of gearbox (given on performance tables)	[kW]
P_M	: Power consumption of the driven machine (for alternating power, refer to equivalent power)	[kW]
P_g	: Electric Motor Power	[kW]
t	: Time	[s]
T_e	: Equivalent torque	[Nm]

Production Range

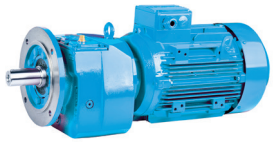
This catalogue is containing **D series** of gearboxes only.

- M and N Series
M and N series of Dana are helical geared. The input and output shafts are parallel to each other and on the same plane.
The gearbox can be connected to the machine by using the foot or flange on the gearbox. Has solid output shaft.



M ...

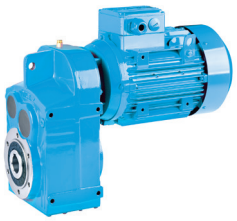
13 different sizes:
Torque range: 50 - 18.000 Nm
Speed range: 0,1 - 500 rpm



N ...

13 different sizes:
Torque range: 50 - 18.000 Nm
Speed range: 0,1 - 500 rpm

- D Series
D series are helical geared gearboxes with parallel input and output shafts. The shafts have a distance in between and located on the same plane. The gearbox can be assembled to the machine by using the foot, the connection screws on the sides, flange or torque arm on the gearbox.
Can have hollow or solid output shaft.



D...

11 different sizes:
Torque range: 150 - 18.000 Nm
Speed range: 0,1 - 350 rpm

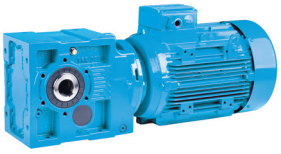
- E Series
E series gearboxes are with worm and wormwheel. The input and output shafts are perpendicular to each other and have a distance in between. It can be assembled to the driven machine by the use of the foot, flange or torque arm on the gearbox.
Can have hollow or solid output shaft.



E ...

8 different sizes:
Torque range: 5 - 1.000 Nm
Speed range: 0,1 - 400 rpm

- K Series
These are gearboxes with helical and bevel gears. The input and output shafts are perpendicular to each other and have a distance in between. It can be assembled to the driven machine using the foot, flange or torque arm on the gearbox.
They have high efficiency compared to E series. Can have hollow or solid output shaft.



K ...

12 different sizes:
Torque range: 200 - 20.000 Nm
Speed range: 0,1 - 400 rpm

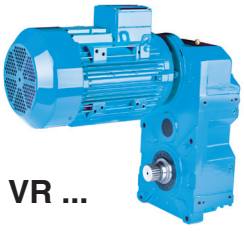
- T Series
T Series are gear units which are helical geared, two staged, hollow shaft mounted gear units and manufactured according to monoblock principal.
T Series gearboxes have hollow shaft and compact housing so that T series can be mounted on smaller places.



T ...

10 different sizes:
Torque range: 200-18.000 Nm
Speed range: 46-280 rpm

- VR Serie
VR hoist drives are produced according to M1 - M8 (1Dm - 5m) load classification.



VR ...

VR Hoist Drive Units
M1 - M8 ,(1Dm - 5m) load classification
ISO 4301 / 1 ,(FEM 1.001 / III)

General Specifications of D Series Gearboxes

The speciality is the hollow shaft, which provides an advantage in mounting and makes the usage easier. These types are manufactured as flange mounted, foot mounted, hollow shaft mounted or combination of these mounting possibilities.

The hollow shaft gearboxes are manufactured in modular system. The output shaft and flange can be added to the standard hollow shaft gearbox without any change on the gearbox.
The housing has mounting points on both sides, which allows mounting from both sides. The input side of hollow shaft gearboxes is flexible.
IEC B5 or B14, standard coupled or with solid input shaft gearboxes are possible.
The combination with other type gearboxes can be made with minimum change. In applications where efficiency and strength is most important hollow shaft gearboxes are preferred to worm gearboxes. Hollow shaft gearboxes have also advantages in radial loads.

As we are Dana,our design principals are;

- Using high technology
- Reliability
- High power density
- High efficiency
- Mounting compatible
- Flexible solutions

Attention to the following points !

- Drawings are examples only and the details on the drawings or illustrations are not strictly binding.

- Dana reserve the right to make all kinds of changes in products and cataloques without any notice.

- Prior to commissioning, the operating instructions provided with the gearbox must be observed.

- Oil quantities given are guide values only. The exact quantity of oil should be checked by using the provided oil level plugs according mounting positions. For correct oil viscosity refer to the nameplate.

- If the mounting position is not informed upon ordering, the gear unit is delivered according M1 mounting position. A different operation then the indicated mounting position on the name plate cancels the warranty.
The weights given in this catalogue are mean values. Depending on the ratio and accessories the weights can differ.

Technical Explanations

- Output Torque: M_2 [Nm]
Multiplication of motor output torque with transmission ratio and efficiency gives the result of output torque at the output shaft of the gear unit.

- Nominal Torque: M_a [Nm]
Nominal torque is the mechanical torque which the gearbox can resist under f_s=1 conditions.

- Nominal Power: P_e [kW]
The nominal power is the power which gearbox can mechanically resist under f_s=1 condition. The nominal powers are given on the performance tables.

- Ratio: i
Ratio between output shaft speed and input shaft speed. Available ratios of Dana D series are between 3,5 to 23500.

- Equivalent Power and Torque: P_{eq} [kW], T_e [Nm]
For gearbox unit with constant speed but variable working conditions.
This is the calculated power or torque which is equivalent to the values at working under constant working conditions.

- Required Power : P_M [kW]
Required power for the applications which is able to drive the system.

- Required Torque : T [Nm]
Required torque for applications. Required torque always must be equal or smaller than output torque for selected gearbox.

- Permissible Axial and Radial Loads: F_{qem} [N], F_{qam} [N]
Permissible axial and radial load at the output or input shaft of gearboxes.

- Service Factor: f_s
Service factor is a safety coefficient, which takes into account the different running conditions of the driven machine. f_s=1 is used for uniform loads 8 hours working per day and up to 100 cycle per hour.

- Noise Level:
The noise level of our gearboxes is below the permitted values defined in VDI guidelines 2159 for gear units.

- Coating and Corrosion Protection:
The gearboxes are painted with RAL 5012 according DIN1843.
Different colors are avaliable upon request. Paintings for high humidity or chemically aggressive environments are avaliable upon request .

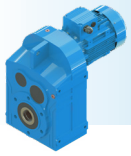
- Lubrication:
D series of gearboxes filled with oils which is indicated on lubrication tables. For lubrication details please refer to the lubrication section.

Accessories

The following accessories can be applied to D series gearboxes.

- IEC B5/B14 Motor connection flange
- Output flanges
- Shrink Discs
- Backstops
- Special sealing solutions.
- Transparent oil level indicator,
- Torque arm
- Electromagnetic brakes

For other accessories please contact, Dana.



Surface Protection

Our products are all painted unless otherwise stated. 4 corrosion categories which are mentioned below can be offered according to corrosion categories of DIN EN ISO 12944-2 standard.

Our standard paint meets C2 corrosion category. If different category is requested, please inform before order.
Unpainted parts such as shaft, flange connection surface are coated with anti-corrosion paint before shipment against corrosion.

Corrosion Categories	Ambient Conditions	Paint Type	Paint Thickness
C2 (Standard)	Indoor installation and outdoor installation with protection roof Environments with low humidity and contamination	Two-Component Primer Coat Acrylic Top Coat	60 µm 40 µm
C3	Indoor installation and outdoor installation subject to weathering Environments with mean humidity and contamination	Epoxy Primer Coat Acrylic Top Coat	80 µm 40 µm
C4	Indoor installation and outdoor installation subject to weathering Environments with occasionally high humidity and chemical contamination	Epoxy Primer Coat Acrylic Top Coat	180 µm 40 µm
C5-I / C5-M	Indoor installation and outdoor installation subject to weathering Environments with permanent high humidity and chemical cleaning contamination	Epoxy Zinc Primer Coat Epoxy Miox Primer Coat Acrylic Top Coat	70 µm 150 µm 40 µm

Unit Designation

D R 4 7 4 .02 3 E90S / 4C - L02

Brake

L - 220V With Fan
P - 24V With Fan
S - 220 V Without Fan
Z - 24 V Without Fan
01 - 10 Nm **10** - 100 Nm
02 - 25 Nm **20** - 200 Nm
04 - 40 Nm **30** - 300 Nm
05 - 50 Nm **40** - 400 Nm

Number of poles

Motor Size

DR / DV For DR / DV Types

For DN Types

A06 :63 B5	**A09** : 90 B5	**A13**:132 B5	**A25**: 250 B5
B06 :63 B14	**B09** : 90 B14	**B13**:132 B14	**A28**: 280 B5
A07 :71 B5	**A10** :100 B5	**A16**:160 B5	**A31**: 315 B5
B07 :71 B14	**B10** :100 B14	**A18**:180 B5	
A08 :80 B5	**A11** :112 B5	**A20**:200 B5	
B08 :80 B14	**B11** :112 B14	**A22**:225 B5	

E90S / 4

Pole Number

Frame Lenght

Motor size

Motor type

Motor Efficiency Class

Output Shaft

00 :Hollow Shaft output
01 :Solid Shaft Output
02 :Solid shaft output with IEC B5 /14 Flange
03 :Flanged and Hollow Shaft output
0S :Shrink Disk Output
0E :Extruder Output
0A :Drywell Gearbox with Hollow Output Shaft
1A :Drywell Gearbox with Solid Output Shaft
SA :Drywell Gearbox with Shrink Disk Output

Stage

2 Stages **5** Stages
3 Stages **6** Stages
4 Stages

Revision Number

Housing Size

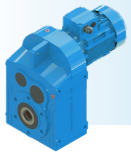
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Input Type

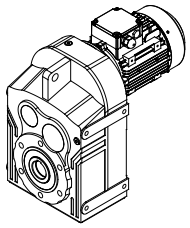
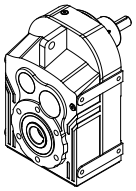
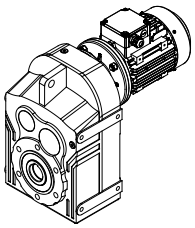
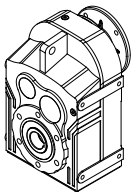
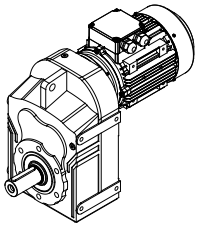
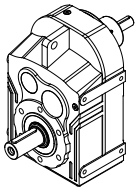
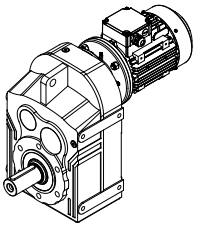
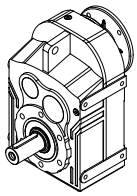
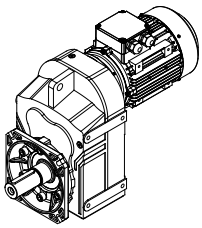
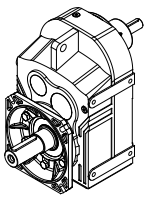
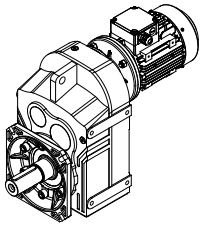
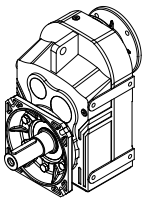
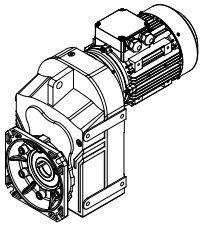
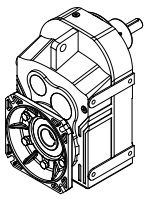
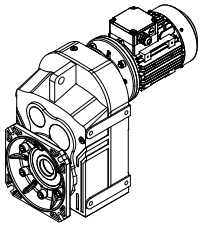
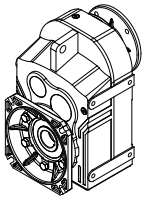
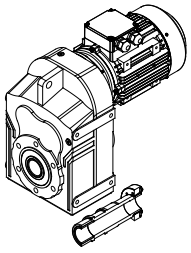
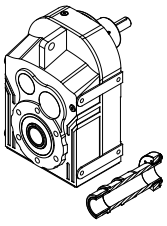
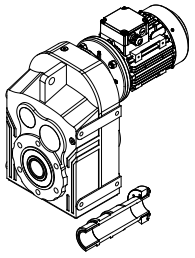
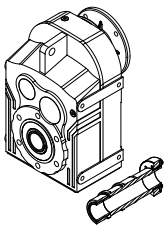
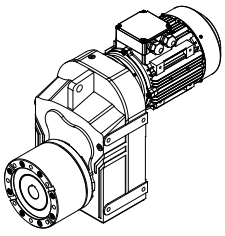
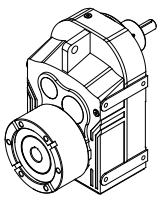
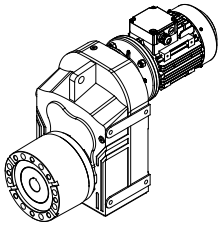
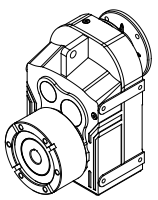
R :With Motor
N :IEC B5 / B14 Flanged without Motor
V :IEC B5 / B14 Flanged with Motor
T :Without Motor
RB :Drywell Gearbox With Motor
NB :IEC B5 / B14 Flanged Drywell Gearbox without Motor
VB :IEC B5 / B14 Flanged Drywell Gearbox with Motor
TB :Drywell Gearbox Without Motor

Gearbox Type

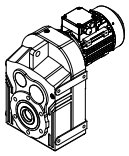
D Serie



DR..00..	Hollow shaft helical geared motors , Direct coupled motor, Hollow shaft output
DR..01..	Hollow shaft helical geared motors, Direct motor coupled, solid output shaft
DR..02..	Hollow shaft helical geared motors, Direct motor coupled, Solid output shaft and output flange
DR..03..	Hollow shaft helical geared motors, Direct motor coupled, Hollow output shaft and output flange
DR..0S..	Hollow Shaft helical geared motors Direct motor coupled , Shrink disk output
DR..0E..	Hollow Shaft helical geared motors Direct motor coupled , extruder output
DN..00..	Hollow shaft helical gearboxes, IEC B5/B14 flanged input without motor, hollow output shaft
DN..01..	Hollow shaft helical gearboxes,IEC B5/B14 flanged input without motor, Solid output shaft
DN..02..	Hollow shaft helical gearboxes, IEC B5/B14 flanged input without motor, Solid output shaft and output flange
DN..03..	Hollow shaft helical gearboxes, IEC B5/B14 flanged input without motor, Hollow output shaft and output flange
DN..0S..	Hollow Shaft helical geared motors IEC B5/B14 flanged without motor, Shrink disk Output
DN..0E..	Hollow Shaft helical geared motors IEC B5/B14 flanged without motor, extruder output
DV..00..	Hollow shaft helical gearboxes, IEC B5/B14 flanged input with direct motor coupled, hollow output shaft
DV..01..	Hollow shaft helical gearboxes,IEC B5/B14 flanged input with direct coupled motor, Solid output shaft
DV..02..	Hollow shaft helical gearboxes, IEC B5/B14 flanged input with direct coupled motor, Solid output shaft and output flange
DV..03..	Hollow shaft helical gearboxes, IEC B5/B14 flanged input with direct coupled motor, Hollow output shaft and output flange
DV..0S..	Hollow Shaft helical geared motors IEC B5/B14 flanged with direct coupled motor, Shrink disk Output
DV..0E	Hollow Shaft helical geared motors IEC B5/B14 flanged with direct coupled motor, Extruder Output
DT..00..	Hollow shaft helical geared unit, Solid shaft input without motor, Hollow output shaft
DT..01..	Hollow shaft helical geared units, Solid shaft input without motor, Solid output shaft
DT..02..	Hollow shaft helical gear units, Solid shaft input without motor, Solid output shaft and flange output
DT..03..	Hollow shaft helical gear units, solid shaft input without motor, Hollow output shaft and output flange
DT..0S..	Hollow Shaft helical gear motors, Solid shaft input without motor, Shrink Disk Output
DT..0E..	Hollow Shaft helical gear motors, Solid shaft input without motor, Extruder Output

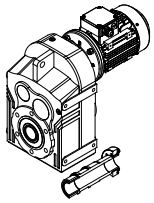
 DR..00	 DT..00	 DV..00	 DN..00
 DR..01	 DT..01	 DV..01	 DN..01
 DR..02	 DT..02	 DV..02	 DN..02
 DR..03	 DT..03	 DV..03	 DN..03
 DR..0S	 DT..0S	 DV..0S	 DN..0S
 DR..0E	 DT..0E	 DV..0E	 DN..0E

DR172 - 3E90S/4C - L05



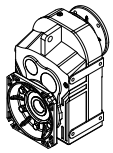
D: D series gearbox
R: With motor connection
1: Gear unit size
7: Revision number
2: Stage number
00: Hollow shaft output
3: Efficiency class
E: Motor type
90S: Motor frame size
4C: Number of poles
L05: Brake type

DV573.0S - 3E100L/4C



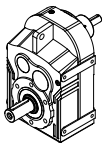
D: D series gearbox
V: With Motor, B5/B14 input flange
5: Gear unit size
7: Revision number
3: Stage number
0S: Hollow shaft output with shrink disk
3: Efficiency class
E: Motor type
100L/4: Motor size and number of poles

DN473.03 - A11



D: D series gearbox
N: IEC B5 flange without motor input
4: Gear unit size.
7: Revision number
3: Stage number
03: Hollow shaft output with flange
A11: Motor type 112, B5 flange

DT373.01

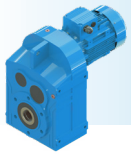


D: D series gearbox
T: Solid input shaft
3: Gear unit size
7: Revision number
3: Stage number
01: Solid output shaft



Geometrically Possible Combinations

Motor Size								
Type	**Stages**	**63**	**71**	**80**	**90**	**100**	**112**	**132**
DR072	**2**	5,77-36,86	5,77-36,86	5,77-36,86	5,77-25,01	5,77-15,97	-	-
DR073	**3**	35,43-180,05	35,43-180,05	35,43-85,12; 146,60-180,05	35,43-85,12	35,43-38,18; 67,62-72,87	-	-
DR172	**2**	4,86-29,67	4,86-29,67	4,86-21,79	4,86-21,79	4,86-19,04	-	-
DR173	**3**	27,18-142,89	27,18-142,89	27,18-103,34	27,18-103,34	27,18-91,25	-	-
DR272	**2**	4,98-25,78	4,98-25,78	4,98-25,78	4,98-25,78	4,98-22,67	-	-
DR273	**3**	25,44-137,94	25,44-137,94	25,44-137,94	25,44-137,94	25,44-120,49	-	-
DR275	**5**	150,45-1189,30	150,45-1189,30	150,45-1189,30	150,45-1189,30	150,45-214,95 331.04-356,74	-	-
DR276	**6**	1215.13-2907,19	1215.13-2907,19	1215.13-2907,19	1215.13-2907,19	-	-	
DR282	**2**	5,22-6,65 9,45-29,85	5,22-6,65 9,45-29,85	5,22-6,65 9,45-29,85	5,22-6,65 9,45-29,85	3,92-24,79	3,92-18,73	3,92-14,06
DR283	**3**	41,23-135,52	41,23-135,52	41,23-135,52	41,23-135,52	30,28-119,16	30,28-84,12	30,28-62,55
DR285	**5**	127,94-936,69	127,94-936,69	127,94-936,69	127,94-936,69	127,94-137,88 196,84-298,73	-	-
DR286	**6**	1003,2-3800,21	1003,2-3800,21	1003,2-2692,99	1003,2-2692,99	-	-	-
DR372	**2**	14,74-25,42	14,74-25,42	14,74-25,42	14,74-25,42	3,65-25,42	3,65-22,46	3,65-17,65
DR373	**3**	32,11-171,89	32,11-171,89	32,11-171,89	32,11-171,89	23,58-151,15	23,58-106,69	23,58-79,34
DR375	**5**	174,88-1188,1	174,88-1188,10	174,88-1188,10	174,88-1188,10	174,88 249,67-378,91	-	-
DR376	**6**	1272,5-4820,21	1272,5-4820,21	1272,5-3415,8	1272,5-3415,8	-	-	-
DR472	**2**	-	20,74-24,54	20,74-24,54	20,74-24,54	6,71-7,54 13,35-24,54	6,71-7,54 13,35-24,54	4,48-24,54
DR473	**3**	-	95,87-242,68	95,87-242,68	95,87-242,68	34,28-174,97	28,45-154,63	28,45-121,49
DR474	**4**	219,13-584,15	219,13-584,15	219,13-584,15	219,13-584,15	219,13-316,37	219,13	-
DR475	**5**	648,55-1937,71	648,55-1937,71	648,55-1937,71	648,55-1937,71	648,554-1140,69	-	-
DR476	**6**	2381,67-6136,10	2381,67-6136,10	2381,67-6136,10	2381,67-6136,10	2381,67-3612,19	-	-
DR572	**2**	-	-	28,87-33,86	28,87-33,86	21,40-33,86	21,40-33,86	4,96-28,87
DR573	**3**	-	-	61,12 126,06-255,83	61,12 126,06-255,83	33,28-209,81	28,39-168,6	28,39-126,06
DR574	**4**	-	230,64-720,91	230,64-720,91	230,64-720,91	230,64-413,56	230,64-310,17	230,64
DR575	**5**	868,61-3432,03	868,61-3432,03	868,61-3432,03	868,61-3432,03	868,61-2078,15	868,61-1439,71	868,61-1041,5
DR576	**6**	3723,69-10146,8	3723,69-10146,8	3723,69-10146,8	3723,69-10146,8	3723,69-6144,09	3723,69-4255,64	-
DR672	**2**	-	-	-	-	26,11-23,36	26,11-23,36	6,61-7,45 11,96-26,11
DR673	**3**	-	-	-	-	124,53-221,47	124,53-221,47	34,02-197,01
DR674	**4**	-	236,65-675,51	236,65-675,51	236,65-675,51	236,65-424,33	236,65-318,25	236,65
DR675	**5**	747,1-3215,89	747,1-3215,89	747,1-3215,89	747,1-3215,89	747,1-2132,27	747,1-1476,89	747,1-1068,62
DR676	**6**	3820,66-9507,85	3820,66-9507,85	3820,66-9507,85	3820,66-9507,85	3820,66-6304,09	3820,66-4366,47	
DR772	**2**	-	-	-	-	-	-	7,76-8,7 13,81-22,77
DR773	**3**	-	-	-	-	141,55-222,16	141,55-222,16	20,87 37,12-41,85 72,5-222,16
DR774	**4**	-	-	321,33-632,92	321,33-632,92	223,53-632,92	223,53-632,92	223,53-384,72
DR775	**5**	-	730,48-3691,20	730,48-3691,20	730,48-3691,20	730,48-3691,20	730,48-2523,53	730,48-874,52 1105,59-1323,71 1656,07-1982,78
DR776	**6**	-	3922,75-24963,27	3922,75-24963,27	3922,75-24963,27	3922,75-16981,28	3922,75-11986,79	3922,75-8913,25
DR872	**2**	-	-	-	-	-	-	-
DR873	**3**	-	-	-	-	-	-	61,27-128,20
DR874	**4**	-	-	-	-	139,7-602,03	139,7-602,03	139,7-532,59
DR875	**5**	-	744,27-2964,88	744,27-2964,88	744,27-2964,88	686,44-2964,88	686,44-1813,1	686,44-1424,58
DR876	**6**	-	3405,63-20051,26	3405,63-20051,26	3405,63-20051,26	3405,63-12200,68	3405,63-8612,25	3405,63-4005,78
DR972	**2**	-	-	-	-	-	-	-
DR973	**3**	-	-	-	-	-	-	-
DR974	**4**	-	-	-	-	197,95-523,19	197,95-523,19	197,95-523,19
DR975	**5**	-	-	938,19-2079,97	938,19-2079,97	603,97-2079,97	603,97-2079,97	474,03-2079,97
DR976	**6**	-	-	2909,37-20565,73	2909,37-20565,73	2909,37-11348,58	2909,37-8841,14	2909,37-5494,80



Motor Size								
Type	Stages	160	180	200	225	250	280	315
DR072	2	-	-	-	-	-	-	-
DR073	3	-	-	-	-	-	-	-
DR172	2	-	-	-	-	-	-	-
DR173	3	-	-	-	-	-	-	-
DR272	2	-	-	-	-	-	-	-
DR273	3	-	-	-	-	-	-	-
DR275	5	-	-	-	-	-	-	-
DR276	6	-	-	-	-	-	-	-
DR282	2	-	-	-	-	-	-	-
DR283	3	-	-	-	-	-	-	-
DR285	5	-	-	-	-	-	-	-
DR286	6	-	-	-	-	-	-	-
DR372	2	-	-	-	-	-	-	-
DR373	3	-	-	-	-	-	-	-
DR375	5	-	-	-	-	-	-	-
DR376	6	-	-	-	-	-	-	-
DR472	2	4,48-20,74	-	-	-	-	-	-
DR473	3	28,45-101,48	-	-	-	-	-	-
DR474	4	-	-	-	-	-	-	-
DR475	5	-	-	-	-	-	-	-
DR476	6	-	-	-	-	-	-	-
DR572	2	4,38-28,87	4,38-24,02	-	-	-	-	-
DR573	3	28,39-126,06	28,39-50,13 68,64-103,39	-	-	-	-	-
DR574	4	-	-	-	-	-	-	-
DR575	5	-	-	-	-	-	-	-
DR576	6	-	-	-	-	-	-	-
DR672	2	4,28-26,11	4,28-26,11	4,28-20,20	-	-	-	-
DR673	3	30,04-167,96	30,04-139,76	30,04-106,08	-	-	-	-
DR674	4	-	-	-	-	-	-	-
DR675	5	-	-	-	-	-	-	-
DR676	6	-	-	-	-	-	-	-
DR772	2	5,06-22,77	5,06-22,77	4,47-22,77	4,47-15,46	-	-	-
DR773	3	17,95-190,20	17,95-158,23	17,95-122,41	17,95-81,72	-	-	-
DR774	4	223,53-321,33	223,53-256,48	-	-	-	-	-
DR775	5	730,48 1105,6 1656,7	-	-	-	-	-	-
DR776	6	-	-	-	-	-	-	-
DR872	2	6,35-8,12 10,97-14,02	6,35-8,12 10,97-14,02	5,66-14,02	5,66-14,02	5,66-14,02	5,66-14,02	-
DR873	3	13,58-30,50 39,92-128,20	13,58-30,50 39,92-128,20	13,58-101,03	13,58-101,03	13,58-68,62	13,58-51,94	-
DR874	4	139,7-403,84	139,70-331,22	-	-	-	-	-
DR875	5	-	-	-	-	-	-	-
DR876	6	-	-	-	-	-	-	-
DR972	2	7,88-9,94 13,19-16,64	7,88-9,94 13,19-16,64	7,08-16,64	7,08-16,64	7,08-16,64	7,08-16,64	7,08-16,64
DR973	3	20,27-43,38 56,21-191,74	20,27-43,38 56,21-171,00	20,27-136,23	20,27-93,91	20,27-93,91	20,27-71,87	20,27-71,87
DR974	4	197,95-415,16	197,95-371,15	-	-	-	-	-
DR975	5	474,03-938,13	474,03-769,47	-	-	-	-	-
DR976	6	3079,47 4589,41	-	-	-	-	-	-

Service Factor

Service Factor (f_s) is a safety coefficient, which takes into account the different running conditions of the driven machine. "f_s=1" is used for uniform loads 8 hours working per day and up to 100 starts per hour.

Service factor depends on:

- Running time
- Nature of load
- Frequency of starting
- Driver type
- Other considerations

For the right selection of the needed service factor for your machine:

1. Determine the running time of driven machine.

2. Select the nature of load of driven machine (Page 15).

U - Uniform loads
M - Moderate loads
H - Heavy shock loads

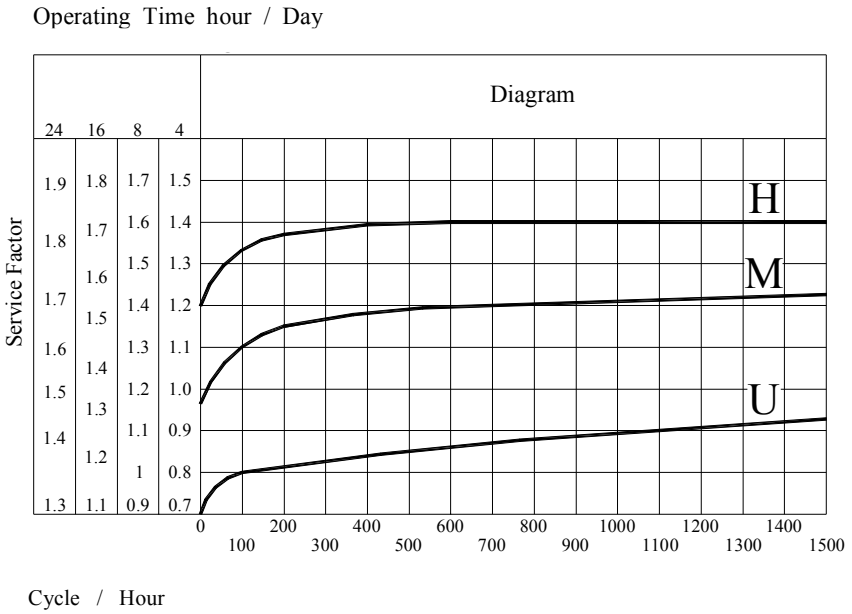
For a better selection, the nature of load can be calculated from the formulas given (page 17).

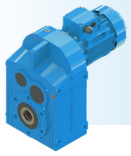
3. Determine frequency of starting

4. After determining the above mentioned factors, the service factor can be easily selected from the table given bellow.

5. The selected service factor must be multiplied with the factor "k" according to the driver type;

k=1 :Electric motor or Hydrolicmotor
k=1.25 :Multicylinder internal combustion engine
k=1.5 :Single cylinder internal combustion engine





Load Classification

Cranes:

U - Hoist Gears
- Lifting Gears

M - Defrocking jib Gears
- Slowing Gears

H - Travelling Gears

Pumps:

U - Centrifugal Pumps (light liquids)
M - Centrifugal Pumps (semi liquid)
H - Pressure Pumps
- Plunger Pumps

Stone and Clay Working Machines:

H - Hammer Mills
- Rotary Kilns
- Beater Mills
- Breakers
- Ball Mills
- Brick Presses
- Tup Mills

Textile Machines:

M - Printing and Dyeing Machines
- Looms
- Willow
- Batchers
- Tanning Vats

Oil Industry:

M - Pipeline Pumps
- Rotary Drilling Equipment

Food Industry:

M - Cane Knives
- Cane Crushers
- Mach Tubs

H - Cane Mills

Laundries:

M - Tumblers
- Washing Machines
- Bulk Belt Conveyors

Metal Rolling Mills:

M - Roller Adjustment Drives
- Roller Straightened
- Winding Machines
- Wire Drawing Benches

H - Billet Shears
- Rotary Tables (heavy)
- Descaling Machines,
- Sheet Mills
- Manipulators
- Cold Rolling Mills

Building Machines:

M - Concreate Mixers
- Hoist

Paper Machines:

H - Wet Presses
- Pulpers
- Drying Cylinders
- Glazing Cylinders

Rubber Machinery:

M - Calenders
- Mixers

H - Extruders
- Pug Mills
- Rolling Mills

Chemical Ind.:

M - Aggidators (semi- liquit)
- Drying Drums.
- Mixers and Rolling Mills

Conveyors:

M - Band Pocket Conveyors
- Steel Belt Conveyors
- Belt Conveyors

H - Hoists
- Bulk Belt Conveyors

U	Uniform Loads	$F_i < 0,25$
M	Moderate Loads	$F_i < 3$
H	Heavy Shock Loads	$F_i < 10$

J_{ext} : External moments of inertia reduced to the motor shaft

$$J'_{ext} = \frac{J_{ext}}{i^2}$$

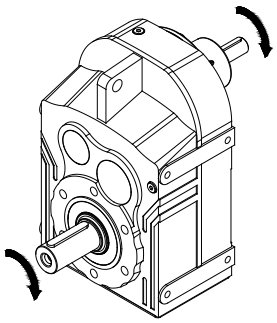
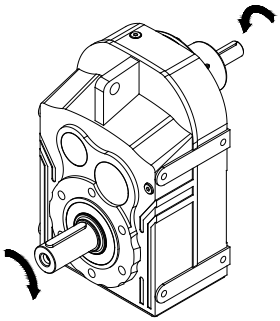
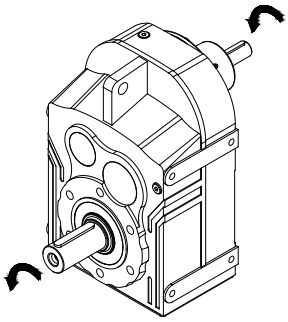
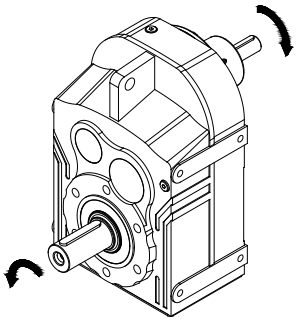
i : Transmission ratio

J_{rotor} : Moments of inertia to the motor

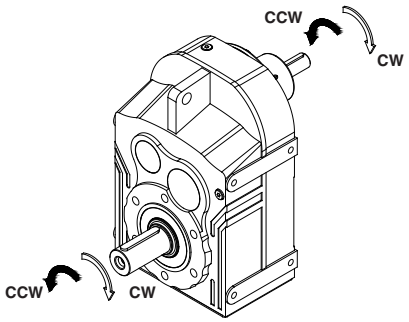
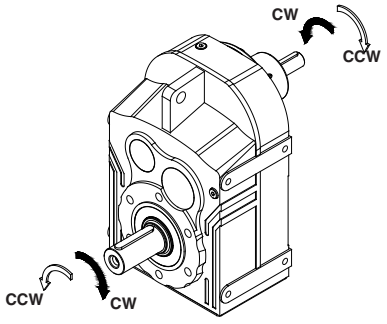
$$F_i = \frac{J'_{ext}}{J_{rotor}}$$

Direction of Rotation

D Series direction of rotation of Dana products are defined as follows. The definitions are also valid for gear units with backstop.

	2-4-6 Stages	3-5 Stages
Clockwise **CW**		
Counter Clockwise **CCW**		

Output shaft rotation directions according to the input shaft rotation directions are as follows.

2-4-6 Stages	3-5 Stages
	

Radial Loads

The permissible radial loads are calculated by considering working life and is listed on the tables. The given permissible radial loads F_{qam} are based on f_s=1 and are valid for forces which are applied to the midpoint of the shaft.

For shock loading applications the service factor given on the table must take into consideration.
The permissible axial load (F_{ama} or F_{ame}) is 25% x (F_{qam} or F_{qem}).

The listed permissible radial loads are based on the worst loading direction. Higher radial loads can be applied for different loading directions (Please ask if requested). The effective radial load at the gear box shaft Fq will be determined with the given formulas on page 18

In Selection :

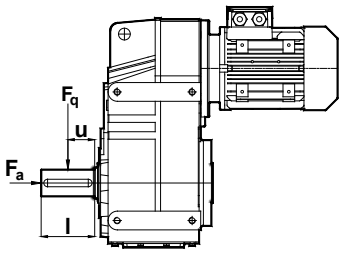
$$F_{qa} \leq F_{qam}$$
$$F_{qe} \leq F_{qem}$$

these formulas must be taken into consideration.

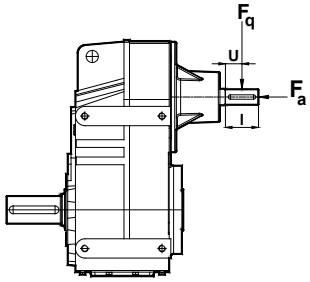
If the load is not applied at the midpoint of the shaft; the given permissible load must be corrected with the following formulas.

$$F_{qam}{}' = F_{qam} \frac{t}{y+u}$$
$$F_{qem}{}' = F_{qem} \frac{t}{y+u}$$

The values “t”,”y” can be taken from the below table. The value “u” is the lenght of the application point as shown below.

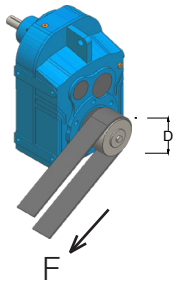


DR...01	Radial Load correcting values on output shaft										
Type	**DR072 DR073**	**DR172 DR173**	**DR272-3 DR275-6**	**DR282-3 DR285-6**	**DR372-3 DR374-5 DR376**	**DR472-3 DR474-5 DR476**	**DR572-3 DR574-5 DR576**	**DR672-3 DR674-5 DR676**	**DR772-3 DR774-5 DR776**	**DR872-3 DR874-5 DR876**	**DR972-3 DR974-5 DR976**
t	116.5	133,5	166	183	198,5	238,5	277,5	344	407,5	485	556
y	91.5	103,5	136	143	158,5	188,5	217,5	274	322,5	380	451
l	50	60	60	80	80	100	120	140	170	210	210

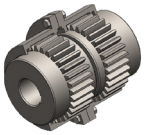


DT...01	Radial load correcting values on input shaft							
Type	**DT072-3 DT172-3 DT272-3-5 DT285-6 DT375-6 DT475-6**	**DT282-3 DT372-3 DT474 DT575-6 DT675-6**	**DT472-3 DT574 DT674 DT775-6 DT875-6**	**DT572-3 DT774 DT975-6**	**DT672-3 DT874**	**DT772-3 DT974**	**DT872-3**	**DT972- 3**
t	78	111,5	126	137	215,5	179,5	220,5	261,5
y	58	86,5	96	102	160,5	129,5	165,5	206,5
l	40	50	60	70	110	100	110	110

Calcolation of Radial Loads

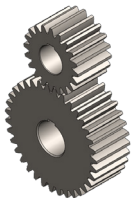


Radial Load F_q [N] is calculated with the following equations where required moment M_2 [Nm] and hoop or gear diameter D [mm] is used.



1. Elastic Coupling

If Elastic Coupling is working in its relaible working area, the radial loads can be neglected.



2. For Spur Gear

(Pressure angle 20°)

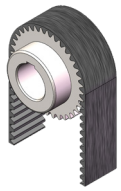
$$F_q = \frac{2100 \times M_2}{D}$$



3. For Chain Drive

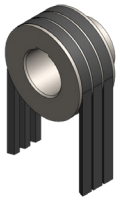
With Low Speed (z>17)

$$F_q = \frac{2100 \times M_2}{D}$$



4. For Trigger Belt

$$F_q = \frac{2500 \times M_2}{D}$$



5. For V Belt

$$F_q = \frac{5000 \times M_2}{D}$$



6. Flat Belt With

Spanning Pulley

$$F_q = \frac{5000 \times M_2}{D}$$

DANA
BREVINI®
Motion Systems

Axial Loads

DRE272-273				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	27.0	33.3	41.0	50.5
30	23.9	29.5	36.3	44.7
40	22.0	27.0	33.3	41.0
50	20.5	25.3	31.1	38.4
65	19.0	23.4	28.8	35.5
80	17.8	22.0	27.0	33.3
100	16.7	20.5	25.3	31.1
120	15.8	19.4	23.9	29.5
140	15.1	18.6	22.9	28.2
160	14.5	17.8	22.0	27.0
180	14.0	17.2	21.2	26.1
200	13.5	16.7	20.5	25.3
220	13.2	16.2	20.0	24.6
240	12.8	15.8	19.4	23.9
260	12.5	15.4	19.0	23.4
280	12.2	15.1	18.6	22.9
300	12.0	14.8	18.2	22.4
320	11.8	14.5	17.8	22.0

DRE282-283				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	104.8	129.0	158.8	195.6
30	92.7	114.2	140.6	173.2
40	85.1	104.8	129.0	158.8
50	79.6	98.0	120.6	148.5
65	73.5	90.5	111.5	137.3
80	69.1	85.1	104.8	129.0
100	64.6	79.6	98.0	120.6
120	61.2	75.3	92.7	114.2
140	58.4	71.9	88.5	109.0
160	56.1	69.1	85.1	104.8
180	54.2	66.7	82.1	101.1
200	52.5	64.6	79.6	98.0
220	51.0	62.8	77.3	95.2
240	49.7	61.2	75.3	92.7
260	48.5	59.7	73.5	90.5
280	47.4	58.4	71.9	88.5
300	46.5	57.2	70.4	86.7
320	45.6	56.1	69.1	85.1

DRE372-373				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	104.8	129.0	158.8	195.6
30	92.7	114.2	140.6	173.2
40	85.1	104.8	129.0	158.8
50	79.6	98.0	120.6	148.5
65	73.5	90.5	111.5	137.3
80	69.1	85.1	104.8	129.0
100	64.6	79.6	98.0	120.6
120	61.2	75.3	92.7	114.2
140	58.4	71.9	88.5	109.0
160	56.1	69.1	85.1	104.8
180	54.2	66.7	82.1	101.1
200	52.5	64.6	79.6	98.0
220	51.0	62.8	77.3	95.2
240	49.7	61.2	75.3	92.7
260	48.5	59.7	73.5	90.5
280	47.4	58.4	71.9	88.5
300	46.5	57.2	70.4	86.7
320	45.6	56.1	69.1	85.1

n_2 :Output Speed [rpm]

DRE472-473				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	134.5	165.6	203.9	251.1
30	119.0	146.6	180.5	222.3
40	109.2	134.5	165.6	203.9
50	102.1	125.7	154.8	190.7
65	94.4	116.2	143.1	176.2
80	88.7	109.2	134.5	165.6
100	82.9	102.1	125.7	154.8
120	78.5	96.7	119.0	146.6
140	75.0	92.3	113.7	140.0
160	72.0	88.7	109.2	134.5
180	69.5	85.6	105.4	129.8
200	67.3	82.9	102.1	125.7
220	65.4	80.6	99.2	122.2
240	63.8	78.5	96.7	119.0
260	62.2	76.6	94.4	116.2
280	60.9	75.0	92.3	113.7
300	59.6	73.4	90.4	111.3
320	58.5	72.0	88.7	109.2

DRE572-573				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	172.0	211.8	260.8	321.1
30	152.3	187.5	230.9	284.3
40	139.7	172.0	211.8	260.8
50	130.6	160.8	198.1	243.9
65	120.7	148.7	183.0	225.4
80	113.4	139.7	172.0	211.8
100	106.1	130.6	160.8	198.1
120	100.4	123.7	152.3	187.5
140	95.9	118.1	145.4	179.0
160	92.1	113.4	139.7	172.0
180	88.9	109.5	134.8	166.0
200	86.1	106.1	130.6	160.8
220	83.7	103.1	126.9	156.3
240	81.5	100.4	123.7	152.3
260	79.6	98.0	120.7	148.7
280	77.9	95.9	118.1	145.4
300	76.3	93.9	115.6	142.4
320	74.8	92.1	113.4	139.7

DRE672-673				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	209.5	258.0	317.7	391.2
30	185.5	228.4	281.3	346.4
40	170.1	209.5	258.0	317.7
50	159.1	195.9	241.3	297.1
65	147.1	181.1	223.0	274.6
80	138.2	170.1	209.5	258.0
100	129.2	159.1	195.9	241.3
120	122.3	150.6	185.5	228.4
140	116.8	143.8	177.1	218.1
160	112.2	138.2	170.1	209.5
180	108.3	133.4	164.2	202.2
200	104.9	129.2	159.1	195.9
220	102.0	125.6	154.6	190.4
240	99.3	122.3	150.6	185.5
260	97.0	119.4	147.1	181.1
280	94.8	116.8	143.8	177.1
300	92.9	114.4	140.9	173.5
320	91.1	112.2	138.2	170.1

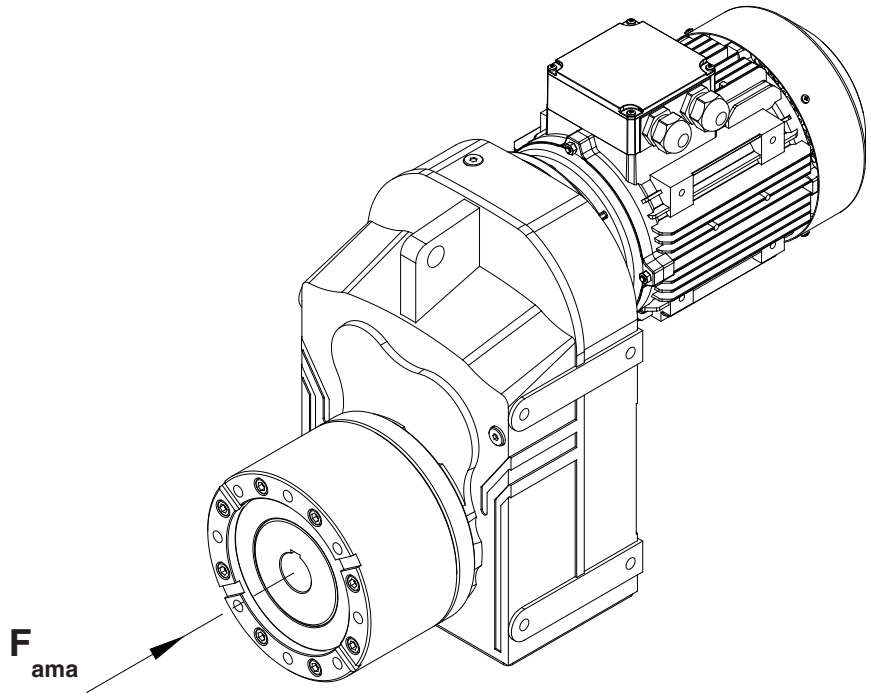
n_2 : Output Speed [rpm]

DRE772-773				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	350.2	431.3	531.1	653.9
30	310.1	381.8	470.2	579.0
40	284.4	350.2	431.3	531.1
50	266.0	327.5	403.3	496.6
65	245.8	302.7	372.8	459.0
80	231.0	284.4	350.2	431.3
100	216.0	266.0	327.5	403.3
120	204.5	251.8	310.1	381.8
140	195.2	240.4	296.0	364.5
160	187.6	231.0	284.4	350.2
180	181.0	222.9	274.5	338.0
200	175.4	216.0	266.0	327.5
220	170.5	209.9	258.5	318.3
240	166.1	204.5	251.8	310.1
260	162.1	199.6	245.8	302.7
280	158.5	195.2	240.4	296.0
300	155.3	191.2	235.5	290.0
320	152.3	187.6	231.0	284.4

DRE872-873				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	403.4	496.7	611.7	753.2
30	357.1	439.8	541.5	666.9
40	327.6	403.4	496.7	611.7
50	306.3	377.2	464.5	572.0
65	283.1	348.7	429.3	528.7
80	266.0	327.6	403.4	496.7
100	248.8	306.3	377.2	464.5
120	235.5	290.0	357.1	439.8
140	224.9	276.9	341.0	419.9
160	216.0	266.0	327.6	403.4
180	208.5	256.8	316.2	389.4
200	202.0	248.8	306.3	377.2
220	196.3	241.8	297.7	366.6
240	191.3	235.5	290.0	357.1
260	186.7	229.9	283.1	348.7
280	182.6	224.9	276.9	341.0
300	178.9	220.3	271.2	334.0
320	175.4	216.0	266.0	327.6

DRE972-973				
n_2	F_{ama} [kN]			
	Lifetime [h]			
	40000	20000	10000	5000
20	456.5	562.2	692.3	852.5
30	404.2	497.7	612.9	754.7
40	370.7	456.5	562.2	692.3
50	346.7	426.9	525.7	647.4
65	320.4	394.6	485.9	598.3
80	301.1	370.7	456.5	562.2
100	281.6	346.7	426.9	525.7
120	266.6	328.2	404.2	497.7
140	254.5	313.4	385.9	475.2
160	244.5	301.1	370.7	456.5
180	236.0	290.6	357.9	440.7
200	228.7	281.6	346.7	426.9
220	222.2	273.6	336.9	414.9
240	216.5	266.6	328.2	404.2
260	211.3	260.2	320.4	394.6
280	206.7	254.5	313.4	385.9
300	202.4	249.3	307.0	378.0
320	198.6	244.5	301.1	370.7

n_2 :Output Speed [rpm]



Equivalent Power Rating

The equivalent power by an equivalent constant torque can be calculated for gearboxes working in constant speed but variable torques (or powers).
Using this equivalent power it is possible to make a gearbox selection according the usual gearbox selection method with constant torques. The equivalent torque will be determined according the mean of dominating torques.
The gearbox working in constant equivalent torque will theoretically have the same lifetime and safety compared to the variable torque one.
To calculate the equivalent torques, the variable torques in a cycle must be sorted from the maximal to the minimal on a horizontal time line (Check the graphic below). According to the graphic below the equivalent torque can be calculated with the following formula;

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + \ldots. + \Delta t_n \times T_n^{6.6}}{t}\right)^{\left(\frac{1}{6.6}\right)}$$

If T_n (the lowest torque) is lower than 50 % of T_e, this torque part must be taken out of the torque graph and the calculation must be repeated;

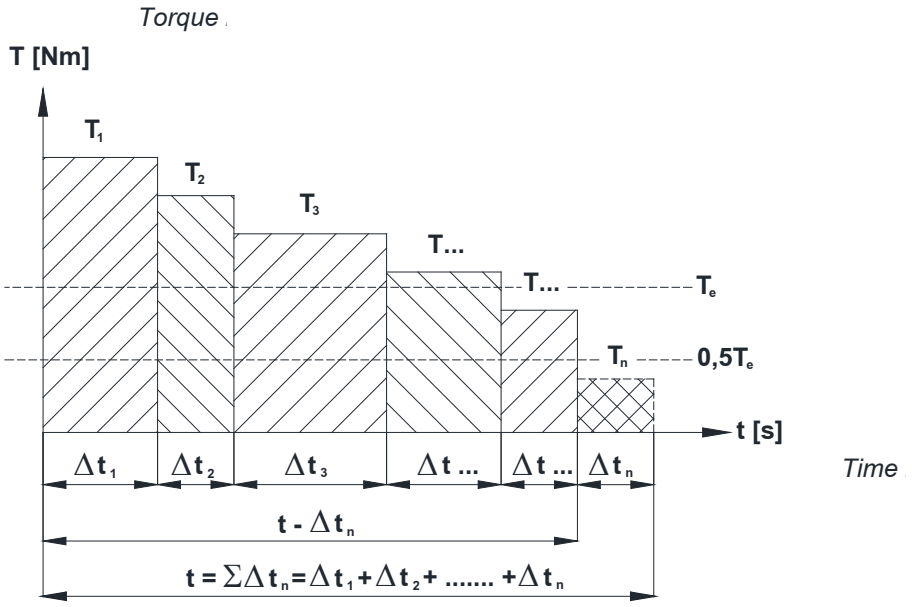
If $T_n < T_e \times 0.5$ then

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + \ldots. + \Delta t_{n-1} \times T_{n-1}^{6.6}}{t - \Delta t_n}\right)^{\left(\frac{1}{6.6}\right)}$$

If all T_n values are higher then 50% of T_e then the equivalent power can be calculated by the following formula;

$$P_{eq} = P_N = \frac{T_e \times n}{9550}$$

After the equivalent power is determined the selection of gearbox is made according to the selection procedures given on the gearbox selection part in this catalogue.



Equivalent Power Rating Example

The following data is given for a reversing blooming mill;

Torque steps:

Total one cycle time:	2 min.
1st torque part:	48 kNm, 30 s
2nd torque part:	32 kNm, 22 s
3th torque part:	28 kNm, 15 s
4th torque part:	16 kNm, 10 s
5th torque part:	5 kNm, 43 s
Machine constant speed:	50 rpm

The equivalent power, which is required for gear unit selection, is to determine.

Solution:

Total time in a cycle;

$$t = t_1 + t_2 + t_3 + t_4 + t_5 = 120 \text{ sn}$$

Equivalent Torque;

$$T_e = \left(\frac{30 \times 48^{6.6} + ... + 43 \times 5^{6.6}}{67}\right)^{\left(\frac{1}{6.6}\right)} = 39{,}2 \text{ kNm}$$

50% of Equivalent torque;

$$0{,}5 \times T_e = 19{,}6 \text{ kNm}$$

Every torque part must be lower then this value;

$$T_{4,5} < 0{,}5 \times T_e$$

We are repeating the calculation by taking out the torque parts, which are below 50%;

$$t' = t_1 - t_4 - t_5 = 120 - 43 - 10 = 67s$$

$$T_e = \left(\frac{30 \times 48^{6.6} + 22 \times 32^{6.6} + 15 \times 28^{6.6}}{67}\right)^{\left(\frac{1}{6.6}\right)} = 42{,}9 \text{ kNm}$$

By using the equivalent torque and constant speed we calculate the equivalent power;

$$P_{eq} = \frac{T_e \times n}{9550} = \frac{42{,}9 \times 1000 \times 50}{9550} = 225\text{kW}$$

Now by using the above calculated equivalent power and constant speed we camake the gearbox selection with the procedures described in this catalogue.

Gearbox Selection

For the correct selection of the appropriate gear units follow this steps.

1.Determine service factor (fs) on the basis of running conditions (Page 14).
2. Determine the required Torque M_2 (required output torque of gearbox) for the driven machine.
3. Determine required speed (output speedof gearbox) for the driven machine.
4. Calculate the required power for your machine(Calculate power ''P_2'' required at output side of gear reducer using the formula);

$$P_2 = \frac{M_2 \times n_2}{9550}$$

5. Calculate radial load required at output shaft according to type of connection between gear unit and machine (Refer to directions and values given on page 17).
After determining the above mentioned values, the gear reducer which corresponds to our requirements can be selected from the performance tables (the service factor and the permissible radial load should be less than or equal to our requirement).
For Helical gears the output power is not given on the performance tables because they have high efficiency and the output power can be taken as input power.
The output torque should be checked if it meets to our requirements. If the output torque is low, search for a higher input power gearbox.

Example:
1. Machine Type: Belt Conveyor (Bulk Load)
2. Required Torque: Required Torque calculated for the driven machine is M_2 = 470 Nm.
3. Required speed: n_2 = 50 rpm
4. Running time: 16 hours per day
5. Frequency of starting: 1 start per hour
6. Connection type between gear reducer: Chain drive (output dimension-130 mm)

- From the load classification table (on page 15), the load class M can be selected for the known application.
- The service factor can be selected as fs =1,3 from the service factor table (page 14) by taking into consideration 16 hours running time, one start per hour, and load class M.

-Required power for your machine(Power at output side of gear reducer) :

$$P_2 = \frac{M_2 \times n_2}{9550} = \frac{470 \times 50}{9550} = 2,46\ \text{kW}$$

- For chain drive application the requested overhang load can be calculated from (page 18).;

$$F_q = \frac{2100 \times M_2}{D} = \frac{2100 \times 470}{130} = 7592\ \text{N}$$

- The required gearbox is as follows:

$P_2 \geq$ 2,46 kW
$M_2 \geq$ 470 Nm
fs $\geq$ 1.3
$n_2 \geq$ 50 rpm
$F_q \geq$ 7592 N

From the performance table,

DR373-3E100L/4D selected (Page 67).

P_2 = 3kW > 2,46 kW

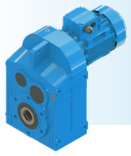
M_2 = 517 Nm > 470 Nm

fs = 1,3

n_2 = 53 rpm

F_{qam} = 16884 Nm > 7592 Nm

i = 27,53



Field of Industry.....
Application.....
Required Average Speed..... rpm

Required Power on Driven Machine:
-Normal..... kW
-Maximum..... kW
-Minimum..... kW

Driving Machine:
AC Motor [ ]
AC Motor + Inverter [ ]
DC Motor [ ]
Hydraulic Motor [ ]
Piston Engine with 1-3 cylinder [ ]
Piston Engine with 4-24 cylinder [ ]

Motor Connection Type (Electric Motors):
IEC B5 Flange [ ]
NEMA Flange [ ]
B3 Foot Mounted [ ]

IEC or NEMA Flange Code.....

Motor Power:
-Nominal.....kW

Motor Speed:
-Normal.....rpm
-Maximum.....rpm
-Minimum.....rpm

Motor Torque:
-Normal.....Nm
-Maximum.....Nm
-Minimum.....Nm

Direction of Rotation:
cw [ ] ccw [ ] variable [ ]

Working hours per day:
<4 [ ] 4-8 [ ] 8-16 [ ] >16 [ ]

Startings per cycle:
0-50 [ ] 50-100 [ ] 100-200 [ ]
200-300 [ ] 300-500 [ ] 500-700 [ ]
700-1000 [ ] >1000 [ ]

Transmission ratio between motor and gear unit.....

Required Starting Torque.....Nm

Peak torques per hour:
1-5 [ ] 6-30 [ ] 31-100 [ ] >100 [ ]

Effective working time in a cycle (ED):
%100 [ ] %80 [ ] %60 [ ] 40% [ ]
20%[ ]

Altitude:
<1000 [ ] <2000 [ ] <3000 [ ]
<4000 [ ] <5000 [ ]

Mounting Place:
Small closed room (w<1m/sn) [ ]
Closed room (w<3m/sn) [ ]
Big rooms and halls (w>=3m/sn) [ ]
Outdoor [ ]

Ambient Conditions:
Normal [ ] Dusty [ ] Humid [ ]
Corrosive [ ] Dry [ ]

Ambient Temperature:
Average.....^{0}C
Maximum.....^{0}C
Minimum.....^{0}C

Backstop Required:
Yes [ ] No [ ]

Gearbox input options:
R..[ ] V..[ ] N..[ ] T..[ ]

Gearbox output options:
00 [ ] 01 [ ] 02 [ ] 03 [ ] 0S [ ]

Mounting Position:
M1 [ ] M2 [ ] M3 [ ] M4 [ ] M5 [ ] M6 [ ]

Input Shaft Connection Type:
Elastic Coupling [ ]
Barrel Type Coupling [ ]
Hydraulic Coupling [ ]
Rigid Flange Coupling [ ]
Pulley [ ]
Chain Sprocket [ ]
Pinion [ ]
Diameter of Connection element.....mm
Radial Load.....N
“u” Distance of Radial Load.....
mm
Axial Load (Towards Shaft +) .....N

Output Shaft Connection Type:
Elastic Coupling [ ]
Barrel Type Coupling [ ]
Rigid Flange Coupling [ ]
Pulley [ ]
Chain Sprocket [ ]
Pinion [ ]
Hollow Shaft with Torque Arm [ ]
Schrinc disc with Torque Arm [ ]
Diameter of Connection Element.....mm
Radial Load.....N
“u” Distance of Radial Load.....
mm
Axial Load (Towards Shaft) .....N

Gearbox assembled by:
Housing [ ] Flange [ ] Torque Arm [ ]

Output Shaft Specification:
Solid Shaft with Keyway [ ]
Solid Shaft without Keyway [ ]
Hollow Shaft with Shrinc Disc [ ]
Hollow Shaft [ ]
Special Shaft [ ]

Input Shaft Specification:
Solid Shaft with Keyway [ ]
Solid Shaft without Keyway [ ]
Special Shaft [ ]

Torque arm required Yes[ ] No[ ]

Electrical Supply:
AC-1 Phase [ ] AC-3 Phase [ ] DC [ ]
Voltage.....Volt
Frequency..... Hz

Protection Class:
IP55 [ ] IP65 [ ] Exproof [ ]
Other IP.....

Attachments:
Load Diagram [ ]
Project [ ]
Required Dimensions [ ]
Technical Specifications [ ]

Notes:

Lubrication

To work in perfect condition and to have long life for the gearbox the lubricant must be chosen correctly and changed in time.

In selection of oil it is important to consider speed, ambient temperature, gear box oil temperature, working conditions and the life required from the lubricant. All units are filled with lubricant before shipping. Before the gearbox is stored for a long time or before starting up, the top plug (according to the working position) must be removed and the extra given vent plug must be replaced. This prevents excessive pressure which causes oil leakages.

The lubricant in the standard line is given for standard fillings on the table page 27. Please look at your gear units label for filled oil type and quantity. If the mounting position not indicated on order, D Series gearboxes are filled with mounting position of M1 . For other mounting positions please filling oil or draining oil refer to the table given on the next pages. For special working conditions please contact us.

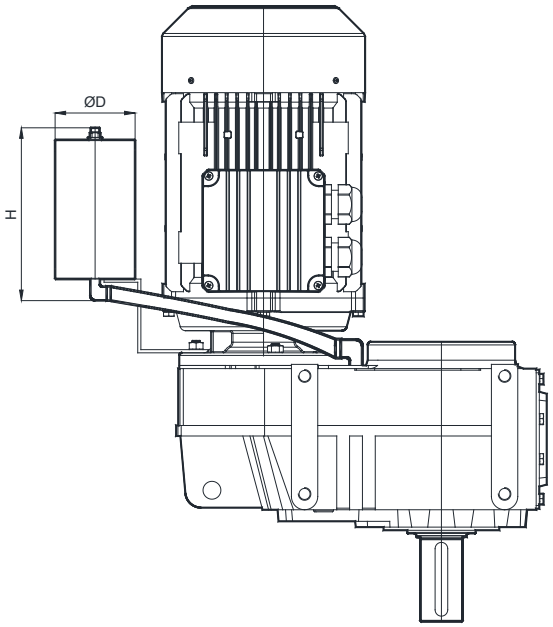
The mineral lubricant should be changed after every 10000 service hours and the synthetic lubricant should be changed after every 20.000 working hours. If the operation conditions are very heavy (e.g. high temperature differences, high humidity) shorter intervals between changes are recommended. Mineral and synthetic oils must not be mixed up. By changing the lubricant complete cleaning is advised. The oil change should be done after a working period. Because oil is hot in this condition and impurities are mixed with it the changing of oil will be done in best result and the oil will drain easily.

Expansion Tank for M4 Mounting Position

As you can see at the technical drawing below, for gear units with M4 (mounting positions p. 28) mounting position, oil level is very high for proper lubrication of upper pinion gear and this leads to oil leakage from venting plug, because of foaming and expansion of oil at geared motors with ratios below 20.

We; Dana, strongly recommend using expansion tank for M4 mounting position for gear units D57, D67, D77, D87 and D97 with total ratios (i) below 20, to prevent this. You can find the recommended dimensions of expansion tanks below.

If your gear units total ratio (i) is below 20 and input speed is higher then 1800 rpm we recommend using of expansion tank for all gear unit sizes for M4 mounting position.



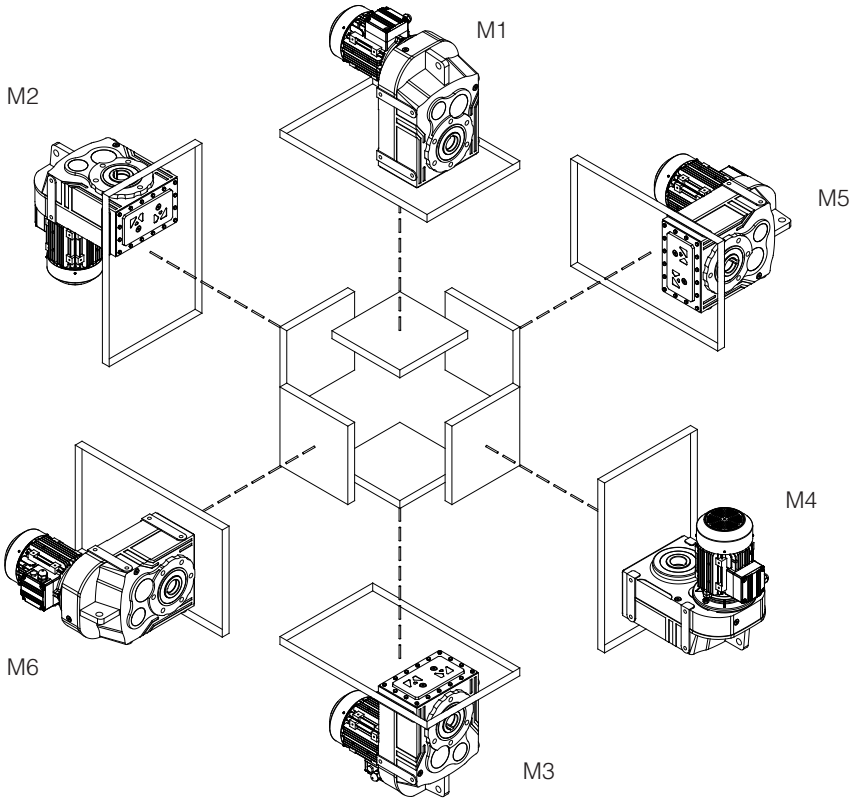
Housing Size	Expansion Tank	D [mm]	H [mm]	Weight [kg]
D57..	G1	100	150	4
D67.. , D77..	G2	150	250	5
D87.. , D97..	G3	180	400	9

Oil Types

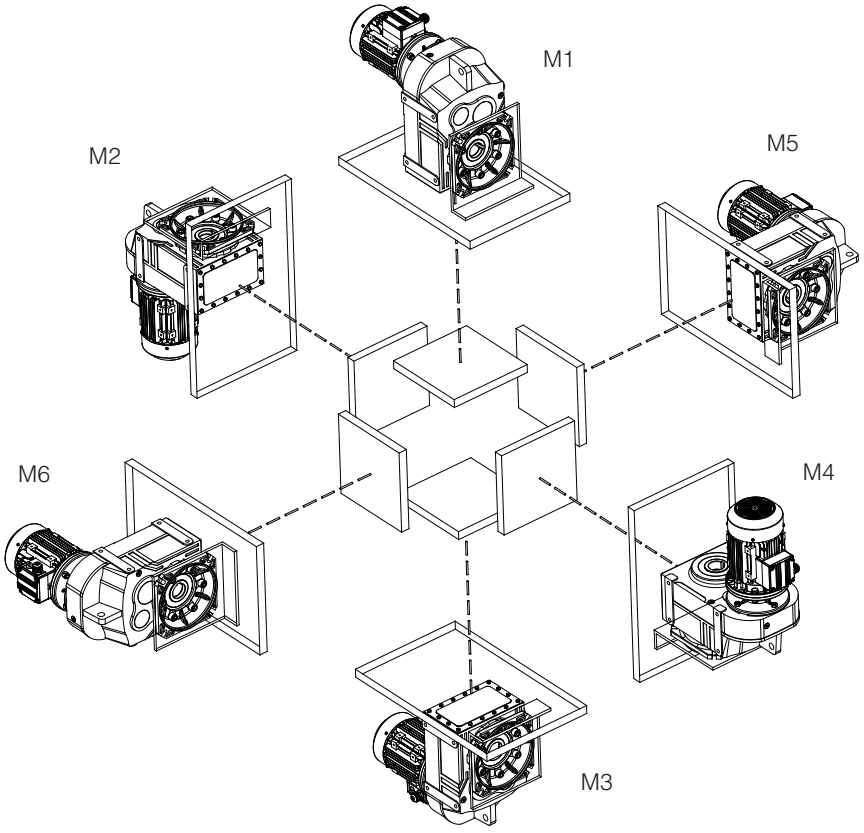
Lubricant	DIN 51517-3	Ambient Temp. [°C] / Dip Lubrication	ISO VG	Aral	Beyond Petroleum	Castrol	Klüber Lubrication	Mobil	Shell	Total
Mineral Oil	CLP	0 ... +50	680	Degol BG 680	Energol GR-XP 680	Alpha SP 680	Klüberoil GEM 1-680 N	Mobilgear XMP 680	Omala S2 GX 680	Carter EP 680
		-5 ... +45	460	Degol BG 460	Energol GR-XP 460	Alpha SP 460	Klüberoil GEM 1-460 N	Mobilgear XMP 460	Omala S2 GX 460	Carter EP 460
		-10 ... +40	320	Degol BG 320	Energol GR-XP 320	Alpha SP 320	Klüberoil GEM 1-320 N	Mobilgear XMP 320	Omala S2 GX 320	Carter EP 320
		-15 ... +30	220	Degol BG 220	Energol GR-XP 220	Alpha SP 220	Klüberoil GEM 1-220 N	Mobilgear XMP 220	Omala S2 GX 220	Carter EP 220
		-20 ... +20	150	Degol BG 150	Energol GR-XP 150	Alpha SP 150	Klüberoil GEM 1-150 N	Mobilgear XMP 150	Omala S2 GX 150	Carter EP 150
		-25... +10	100	Degol BG 100	Energol GR-XP 100	Alpha SP 100	Klüberoil GEM 1-100 N	Mobilgear XMP 100	Omala S2 GX 100	Carter EP 100
Synthetic Oil	CLP PG	-10 ... +60	680	Degol GS 680	Energsyn SG-XP 680	–	Klübersynth GH 6 -680	Mobil Glygoyle 680	Omala S4 WE 680	Carter SY 680
		-20 ... +50	460	Degol GS 460	Energsyn SG-XP 460	Aphasyn PG 460	Klübersynth GH 6 -460	Mobil Glygoyle 460	Omala S4 WE 460	Carter SY 460
		-25 ... +40	320	Degol GS 320	Energsyn SG-XP 320	Aphasyn PG 320	Klübersynth GH 6 -320	Mobil Glygoyle 320	Omala S4 WE 320	Carter SY 320
		-30 ...+30	220	Degol GS 220	Energsyn SG-XP 220	Aphasyn PG 220	Klübersynth GH 6 -220	Mobil Glygoyle 30	Omala S4 WE 220	Carter SY 220
		-35 ... +20	150	Degol GS 150	Energsyn SG-XP 150	Aphasyn PG 150	Klübersynth GH 6 -150	Mobil Glygoyle 22	Omala S4 WE 150	Carter SY 150
		-40 ... +10	100	–	–	–	Klübersynth GH 6 -100	Mobil Glygoyle 100	–	–
	CLP HC	-10 ... +60	680	–	–	–	Klübersynth GEM 4-680 N	Mobil SHC Gear 680	Omala S4 GXV 680	Carter SH 680
		-20 ... +50	460	Degol PAS 460	Enersyn EP-XF 460	Alphasyn T 460	Klübersynth GEM 4-460 N	Mobil SHC Gear 460	Omala S4 GXV 460	Carter SH 460
		-40 ... +40	320	Degol PAS 320	Enersyn EP-XF 320	Alphasyn T 320	Klübersynth GEM 4-320 N	Mobil SHC Gear 320	Omala S4 GXV 320	Carter SH 320
		-40 ... +40	220	Degol PAS 220	Enersyn EP-XF 220	Alphasyn T 220	Klübersynth GEM 4-220 N	Mobil SHC Gear 220	Omala S4 GXV 220	Carter SH 220
		-40 ... +40	150	Degol PAS 150	Enersyn EP-XF 150	Alphasyn T 150	Klübersynth GEM 4-150 N	–	Omala S4 GXV 150	Carter SH 150
		-40 ... +40	100	–	–	–	Klübersynth GEM 4-100 N	–	Omala S4 GXV 100	–
Food Grade Oil	CLP NSF H1	-30 ... +25	220	–	–	Optileb GT 220	Klüberoil 4 UH1-220 N	Mobil SHC Cibus 220	Cassida Fluid GL-220	Nevastane SL 220
Biodegradable Oil	CLP E	-25 ... +40	320	–	–	Tribol BioTop 1418-320	Klübersynth GEM 2-320	–	–	Carter Bio 320
Mineral Grease [-20 .... +130 Working Temperature °C]				Aralub HL3	Energrease LS 3	Spheerol AP3	Centoplex 2 EP	Mobilux EP 3	Gadus S2 V100 3	Multis Complex EP 2
Synthetic Grease [-30 .... +130 Working Temperature °C]				–	Energrease SY 2202	–	Petamo GHY 133 N	Mobiltemp SHC 100	Gadus S5 V100 2	Multis Complex SHD 220

Mounting Positions

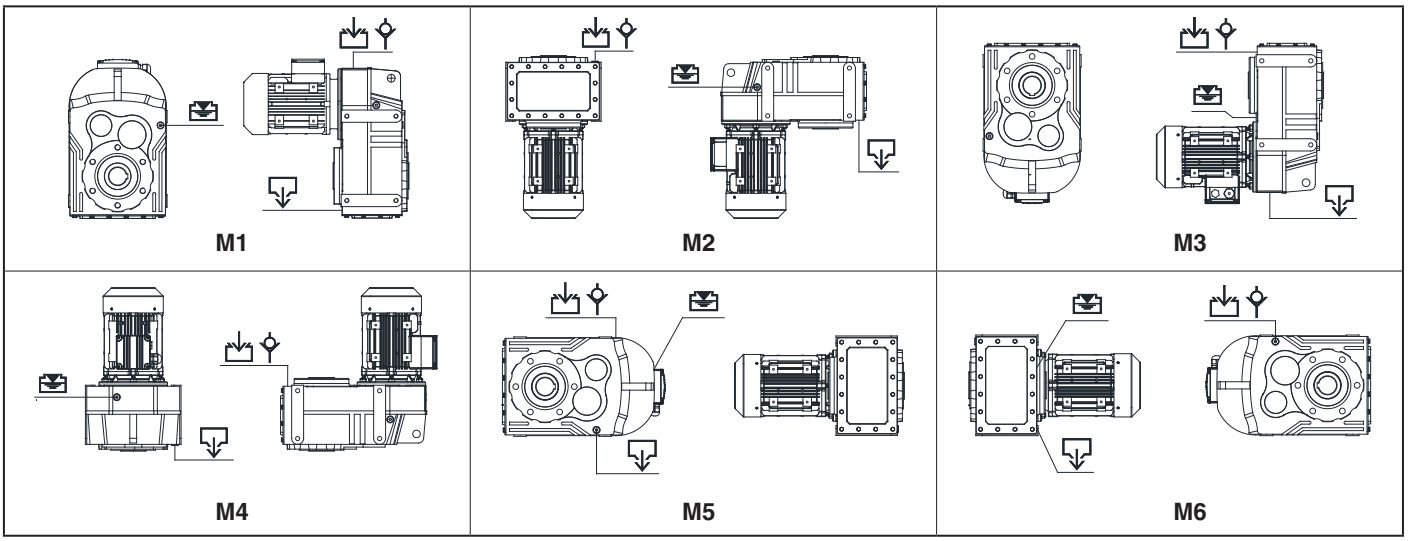
Figured mounting positions of M1 to M6 are determined as reference of directional position of the gearbox. Mounting surfaces are not binding.



Figured mounting positions of M1 to M6 are determined as reference of directional position of the gearbox. Mounting surfaces are not binding.



2 - 3 Stage Helical Geared Hollow shaft Gearboxes Oil Level Plugs and Oil Quantities

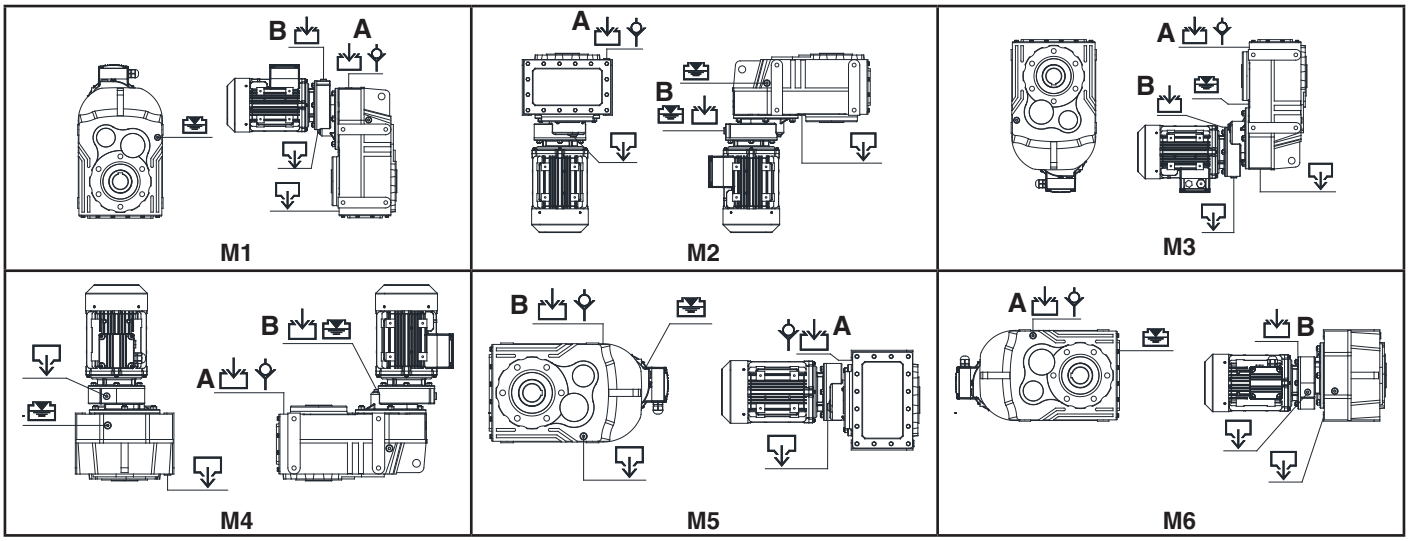


Oil Quantities (lt)

Type	M1	M2	M3	M4	M5	M6
DR072	0.95	1.1	0.8	1.1	1.0	0.9
DR073	0.9	1.0	0.7	1.0	0.9	0.85
DR172	1.3	1.5	1.0	1.6	1.4	1.3
DR173	1.0	1.3	0.8	1.55	1.2	1.2
DR272	1.9	2.2	1.3	2,5	2.0	1.95
DR273	1.8	2.0	1.2	2.0	2.0	2.0
DR282	2.4	3.0	2.0	2.9	2.7	2.7
DR283	2.3	2.9	1.8	2.6	2.3	2.5
DR372	3.2	3.7	2.4	3.6	3.5	3.4
DR373	3.0	3.7	2.0	3.5	3.3	3.3
DR472	6.8	7.0	4.6	7.5	6.5	6.5
DR473	6.4	7.0	4.0	6.6	6.5	6.5
DR572	11.4	12.7	8.6	15,0	11.9	11.6
DR573	11.2	12.4	8.0	12.5	11.5	11.5
DR672	22.0	27.0	16.0	27.0	22.8	22.5
DR673	21.0	25.2	14.0	26.5	21.5	21,0
DR772	34.0	37.0	26.0	44.0	35.0	34.5
DR773	32.0	35.0	21.0	40.0	33.0	32.5
DR872	53.0	58.0	43.0	67.0	55.0	54.0
DR873	48.5	53.0	39.0	61.0	50.0	49.0
DR972	87.0	113.0	80.5	117.0	97.0	95.0
DR973	84.0	110.0	77.0	112.0	93.0	89.0

Symbols : :Oil filling :Drain plug :Oil level :Vent Plug

4 Stage Helical Geared Hollow shaft Gearboxes Oil Level Plugs

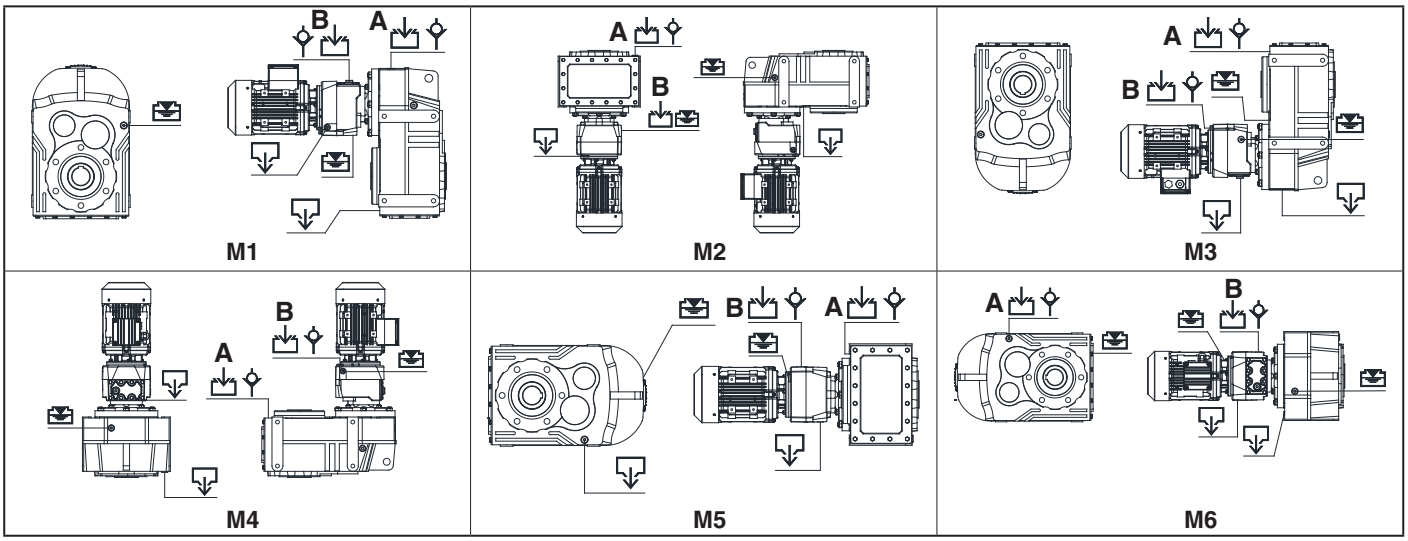


Oil Quantities (lt)

Type	M1 A / B	M2 A / B	M3 A / B	M4 A / B	M5 A / B	M6 A / B
DR474	6.4/ 0.25	7.0 / 0.25	4.0 / 0.25	6.6 / 0.25	6.5 / 0.25	6.5/ 0.25
DR574	11.2 / 0.4	12.4 / 0.4	8.0 / 0.4	12.5 / 0.4	11.5 / 0.4	11.5 / 0.4
DR674	21.0 / 0.5	25.2 / 0.5	14.0 / 0.5	26.5 / 0.5	21.5 / 0.5	21.0 / 0.5
DR774	32.0 / 0.9	35.0 / 0.9	21.0 / 0.9	40.0 / 0.9	33.0 / 0.9	32.5 / 0.9
DR874	48.5 / 3.5	53.0 / 3.5	39.0 / 3.5	61.0 / 3.5	50.0 / 3.5	49.0 / 3.5
DR974	84.0 / 5.0	110.0 / 5.0	77.0 / 5.0	112.0 / 5.0	93.0 / 5.0	89.0 / 5.0

Symbols : :Oil filling :Drain plug :Oil level :Vent Plug

5 - 6 Stage Helical Geared Hollow shaft Gearboxes Oil Level Plugs



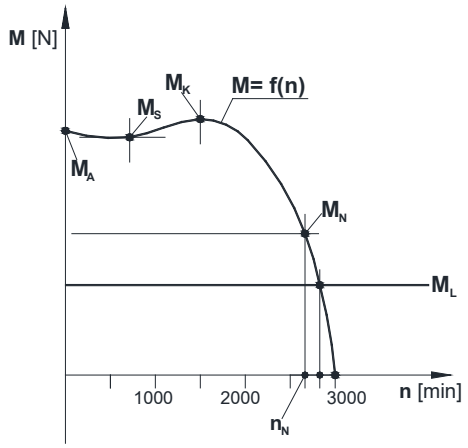
Oil Quantities (lt)

Type	M1 A / B	M2 A / B	M3 A / B	M4 A / B	M5 A / B	M6 A / B
DR275	1.8 / 0.4	2.0 / 0.6	1.2 / 0.5	2.0 / 0.6	2.0 / 0.5	2.0 / 0.5
DR276	1.8 / 0.35	2.0 / 0.5	1.2 / 0.5	2.0 / 0.55	2.0 / 0.4	2.0 / 0.4
DR285	2.3 / 0.4	2.9 / 0.6	1.8 / 0.5	2.6 / 0.6	2.3 / 0.5	2.5 / 0.5
DR286	2.3 / 0.35	2.9 / 0.55	1.8 / 0.5	2.6 / 0.55	2.3 / 0.4	2.5 / 0.4
DR375	3.0 / 0.4	3.7 / 0.6	2.0 / 0.5	3.5 / 0.6	3.3 / 0.5	3.3 / 0.5
DR376	3.0 / 0.35	3.7 / 0.55	2.0 / 0.5	3.5 / 0.55	3.3 / 0.4	3.3 / 0.4
DR475	6.4 / 0.65	7.0 / 0.95	4.0 / 0.7	6.6 / 0.95	6.5 / 0.7	6.5 / 0.7
DR476	6.4 / 0.6	7.0 / 0.8	4.0 / 0.7	6.6 / 0.8	6.5 / 0.65	6.5 / 0.65
DR575	11.2 / 1.2	12.4 / 2.1	8.0 / 2.0	12.5 / 2.1	11.5 / 1.4	11.5 / 1.4
DR576	11.2 /1.1	12.4 / 2.0	8.0 / 1.9	12.5 / 2.0	11.5 / 1.3	11.5 / 1.3
DR675	21.0 / 1.2	25.2 / 2.1	14.0 / 2.0	26.5 / 2.1	21.5 / 1.4	21.0 / 1.4
DR676	21.0 / 1.1	25.2 / 2.0	14.0 / 1.9	26.5 / 2.0	21.5 / 1.3	21.0 / 1.3
DR775	32.0 / 2.0	35.0 / 3.4	21.0 / 3.1	40.0 / 3.4	33.0 / 2.8	32.5 / 2.8
DR776	32.0 / 1.9	35.0 / 3.3	21.0 / 3.0	40.0 / 3.3	33.0 / 2.6	32.5 / 2.6
DR875	48.5 / 2.0	53.0 / 3.4	39.0 / 3.1	61.0 / 3.4	50.0 / 2.8	49.0 / 2.8
DR876	48.5 / 1.9	53.0 / 3.3	39.0 / 3.0	61.0 / 3.3	50.0 / 2.6	49.0 / 2.6
DR975	84.0 / 4.5	110.0 / 7.5	77.0 / 7.5	112.0 / 7.5	93.0 / 5.5	89.0 / 5.5
DR976	84.0 / 4.0	110.0 / 7.0	77.0 / 7.0	112.0 / 7.0	93.0 / 5.0	89.0 / 5.0

Symbols : :Oil filling :Drain plug :Oil level :Vent Plug

AC Motors - General Specifications

On account of its simple and maintenance free construction, good reliability and price, the three phase squirrel cage motor is one of the most frequently employed electric motors. The run up behavior of a three phase squirrel cage motor is described by the torque-speed characteristic curve. An example is shown below.



M_A: Starting torgue

M_S: Pull-up torgue

M_K: Pull -out torgue

M_N: Motor rated torque

M_L: Load torque

The motor follows this torque characteristics up to its stable operating point every time, when it is switched on. Operating point is that point, where the moment speed curve intersects with load torque M_L line.
The magnetic field in the stator rotates at a synchronous speed n_s.

Phase shift of each pole is 120° at 3 phase motors.

$$n_S = 120 \times \frac{f}{p_S}$$

f: supply frequency [Hz]
p_s: number of stator poles

Because of the alternating magnetic field in the rotor, the rotor starts running in the same direction of the stator flux and tries to catch up with the rotating flux. The rotor never catches up the stator field. The rotor runs slower than the speed of the stator field.
This speed is called the base speed n_N.

A decrease in load will cause the rotor to speed up or decrease slip. The slip is defined as follows:

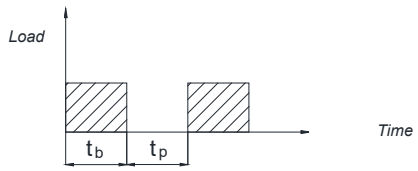
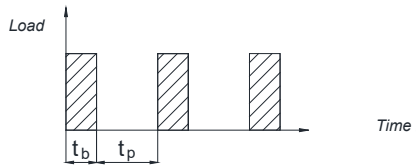
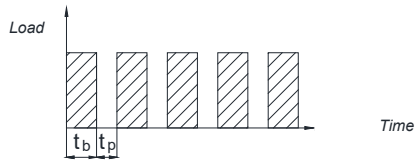
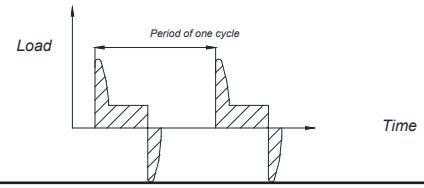
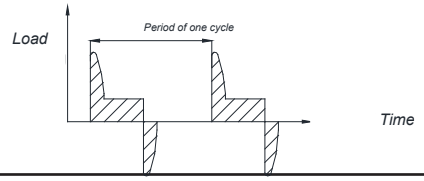
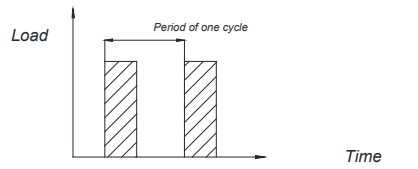
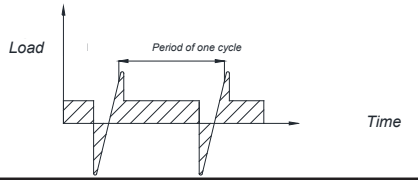
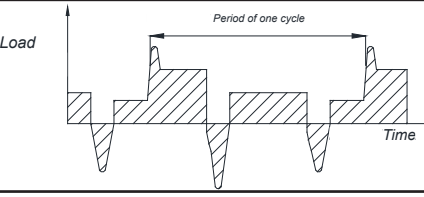
$$s = \frac{n_S - n_N}{n_S} \times 100$$

According to the slip, the nominal values of the electric motor can alter as follows:

Slip s: ± 20%
Starting current: ± 20%
Starting torque: -15 /+25 %
Moment of inertia: ± 10%
Efficiency (up to 37 kW): -0,15 (1-η)

AC Motors - Modes of Operation

All motors of the catalogue have been laid out for duty S1 (continuous operation). Other duty types are given on the following table.

Operation	Explanation	Load Graphic
S1	Continuous operation under constant load	
S2	Short-time duty under constant load	
S3	Periodic duty without influence of start-up on temperature	
S4	Periodic duty with influence of start up on temperature	
S5	Periodic duty with influence of startup and braking on temp.	
S6	Continuous operation with intermittent loading	
S7	Continuous operation with intermittent loading and breaking	
S8	Continuous operation duty type with related load-speed changes	



Protection Class

Dana uses IP54 (IEC 34-5) protection class electric motors for standard products. If different kind of protection class is requested please contact us.

Insulation Class

Dana uses F (IEC 317-8) insulation class electric motors for standard products. H insolation class is available upon request.

Efficiency Classes

The method for measuring the efficiency of low voltage three-phase asynchronous motors was revised with the new IEC 60034-2-1:2007 standard. The new IE classes is valid for AC Motors in power range from 0,75 to 375 kW.

Unlike the EFF classes IE classes can be used for 6-pole AC motors. Bellow is the table of efficiency classes.
The instructions for efficiency classes can differ from country to country. Please contact with us for more information.

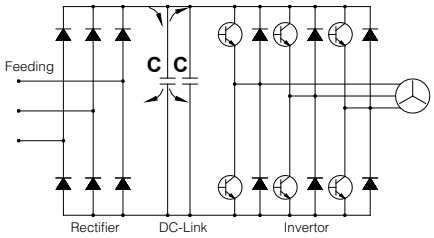
For the motors, which are fully integrated into a product (for example gear, pump) so their energy efficiency can not be recognized independently, the requirements of efficiency are not valid in Europe.

Efficiency Classes			Calculating Efficiency Values of Motors with 4 Poles	
IE1	EFF 2	Standart Efficiency	A=0,5234 B=-5,0499 C=17,4180 D=74,3171	$\eta_{Mn} = A \times \left[\log_{10}(P_L)\right] + B \times \left[\log_{10}(P_L)\right]^2 + C \times \log_{10}(P_L) + D$
IE2	EFF 1	High Efficiency	A=0,0278 B=-1,9247 C=10,4395 D=80,9761	P_L : Nominal Load [kW] η_{Mn} : Nominal Efficiency [kW]
IE3	-	Premium Efficiency	A=0,0773 B=-1,8951 C=9,2984 D=83,7025	
IE4	-	Super Premium Efficiency	-	

Efficiency Values of Motor with 4 poles	Nominal Load [kW]	Efficiency Class		
		IE1	IE2	IE3
	0,75	72,1 %	79,6 %	82,5 %
	1,5	77,2 %	82,8 %	85,3 %
	3	81,5 %	85,5 %	87,7 %
	7,5	86 %	88,7 %	90,4 %
	15	88,7 %	90,6 %	92,1 %
	22	89,9 %	91,6 %	93 %
	37	91,2 %	92,7 %	93,9 %
	45	91,7 %	93,1 %	94,2 %
	75	92,7 %	94 %	95 %
	90	93 %	94,2 %	95,2 %
	330	94 %	95,1 %	96 %

AC Frequency Inverters

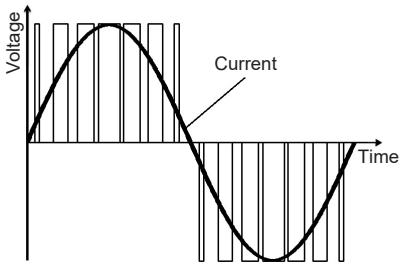
An electronic converter is a device which converts Direct Current (DC) to Alternating Current (AC) is known as an inverter. Electronic speed controllers for AC motors usually convert the AC supply to DC using a rectifier, and then convert it back to a variable frequency, variable voltage AC supply using an inverter bridge.
The connection between the rectifier and inverter is called the DC link.
The block diagram of a speed controller (often called an inverter) is shown below.



The three phase supply is fed into a full wave rectifier which supplies the DC link capacitors.
The capacitors reduce the voltage ripple (especially on single supplies) and supply energy for short mains breaks.
The voltage on the capacitors is uncontrolled and depends on the peak AC supply voltage.
The DC voltage is converted back to AC using Pulse Width Modulation (PWM).

The desired waveform is built up by switching the output transistors (Insulated Gate Bipolar Transistors; IGBTs) on and off at a fixed frequency (the switching frequency).

By varying the on and off time of the IGBTs the desired current can be generated. The output voltage is still a series of square wave pulses and the inductance of the motor windings results in a sinusodial motor current.
Pulse Width Modulation is shown in the figure below.





DC Motors - General Specifications

DC drive systems have found new possible applications with the development of the electronic components sector. What was previously extremely expensive and in some cases not economically feasible is nowadays realized by miniaturised power converter technology.
Additional functions such as guided startup after a predetermined time, torque and current monitoring with electronic protection against overloading, and many inexpensive special applications have made DC drive systems more attractive.

DC Motors - Operating Principles

The DC motor requires, a converter with DC output. The motor includes windings, such as armature, field, commutation and compensation windings, which are arranged in the stator as well as on rotor. Voltage and current are supplied to the rotor via the carbon brushes and the commutator. The carbon brushes are wearing parts therefore a DC motor requires maintenance at service intervals. While its good control properties, the DC motor is an essential item in automation technology.

DC Motors - Types

Depending on the wiring of the exciting winding or field winding, two basically different variants are regards torque speed characteristics may be distinguished.

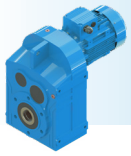
DC Motors - Speed Control

In DC motors the speed is adjusted by altering the DC voltage.
DC shunt wounded motors behave similar to three phase induction motors between no load operation and maximum load.
The speed drops with increasing loading of the motor. This difference is greater in small motors and smaller in larger motors.
The speed difference can compensated in the DC converter device by adjusting (I x R). If great control accuracy is required, a speed control with measurement of the actual values by a tachogenerator can be used.

The power of DC motor;

$$P_g = U \times I = \frac{P_c}{\eta}$$

P_g : Input Power W
P_C : Output Power W
U : Armature Voltage V
I : Armature Current A
η : Motor efficiency



Brakes - Types and General Informations

This type of brakes has two friction surfaces. Brake torque is generated by springs when no voltage is applied. The brake is electromagnetically released.
On exciting the electromagnet means of the current, the armature plate is pulled towards the electromagnet itself, thrust loading the pressure spring and enabling the friction disc which is axially movable on the key, to turn freely.
When current fails, the pressured springs drive the armature plate towards the disc, thus braking the motor shaft.

Brake Types:

a) Brakes without cooling
This type of brakes are assembled on the back cover of the electric motor. There is no fan on the backside. This brake type is mostly preferred in short working times and short working cycles.

b) Fan cooled brakes
This type of brakes are assembled on the back cover of electric motor by removing the electric motor fan. A fan is coupled to the backside of the brake by extending the rotor shaft of the electric motor. Fan cooled brakes are preferred in long working times and closed places without airflow.

c) Brakes with hand release
This brakes can be released by help of an arm. It can be applied to both of the above mentioned brakes and used in special cases (fail of electric current, mechanical problems etc.)
These brakes are mostly preferred if operation (relasing) without a current is needed (automatic controlled doors, gates, building wall painting elevators etc.).

Brakes - Working Voltages

Electromagnetic brakes can be ordered with 230V AC or 400V AC supply voltage. The coil of brakes needs DC voltage and therefore depending on brake type a half wave, a full wave rectifier or transformer should be used between supply and coil voltage.
As standard the brakes will be delivered with 230V supply voltage and half wave rectifier, if there is no special request.
For special cases please contact Dana.

a) Brakes with 230V supply voltage
230V AC supply voltage from the motor terminal box will be reduced to the coil voltage depending on the brake type with half-wave or full-wave rectifier. DC brake coil voltage is indicated on the label.

b) Brakes with 400V supply voltage
400V AC supply voltage from the motor terminal box will be reduced to the coil voltage with half-wave rectifier. DC brake coil voltage indicated on the label.

c) 24V DC Brakes
The transformator's size is selected according to value of brake torque. The current is taken from the electric motor terminal box or from the electric panel and is transformed to 29V DC current. This current is transferred to 24V DC current with full-wave rectifier and supplies brake coil.

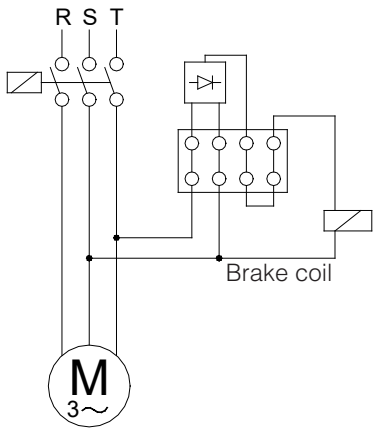
d) Shock voltage supply transformer
Brakes which consist of high power and torques take long time to get in electromagnetic field. Shock voltage supply transformers with time relay are aiming to overcome spring pressure delaying for brakes .
Also this transformers provide to open system suddenly by feeding double(48V DC) voltage in a short time and preventing to frictional loses occurring in delayed opening.

Brakes - Connection Types

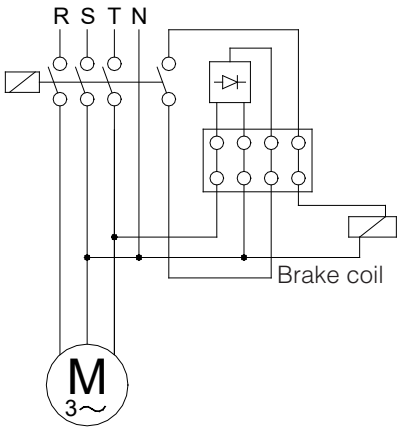
a) Delayed Braking
Generally this type of connection uses in slow and sliding brake intended systems. Delayed connection type using to prevent shock loadings in crane driving systems. Brakes are setting up to delayed connection if any other types are not specified by customer

b) Sudden Braking
This type of connections are mostly used in systems when short braking times are needed. The braking torque will be produced as soon as the current fails. These brakes are mostly used in hoisting of lifting units and elevators.

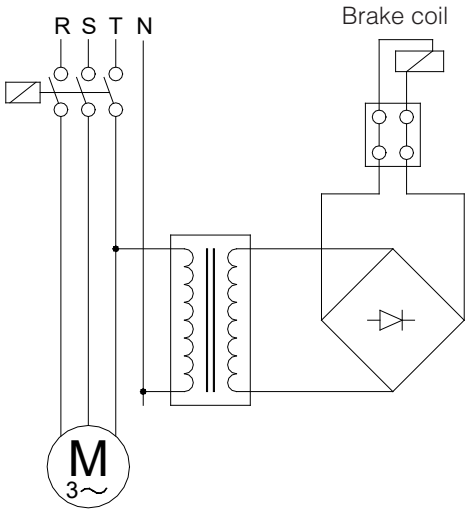
Delayed Running Brake
(230 V)



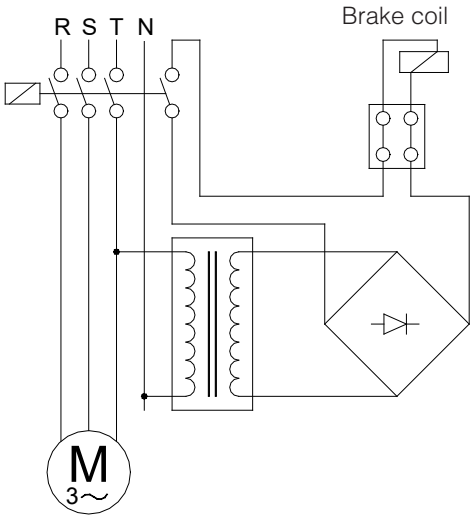
Sudden Brake
(230 V)



Delayed Running Brake
(24 V)



Sudden Brake
(24 V)



Brakes - Selection

To select a brake correctly the following data are necessary;

- **I_{tot} [kg . m²]** : The total inertia of rotating parts reduced at the motor shaft
- **n_0 [rpm]** : Maximum motor speed.
- **t_f [s]** : The maximum admitted time of the braking.
- **c_t** : Coefficient of switch on time (average 0,995).
- **M_L [Nm]** : Required static torque of system.
- **C_S** : Safety coefficient ($C_S \geq 2$)

The necessary braking torque calculates below:

a) The static load torque M_L ,
same direction of motor rotation (Descent of a load or steady resisting torque which favours the rotation of the motor)

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} + M_L$$

b) The static load torque M_L ,
opposes the rotation of the motor (Lifting of a load or steady resisting torque which opposes the rotation of the motor)

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} - M_L$$

The necessary braking torque will result from the following equation using C_S ($C_S \geq 2$);

$$M_f = M_{fc} \times C_s$$

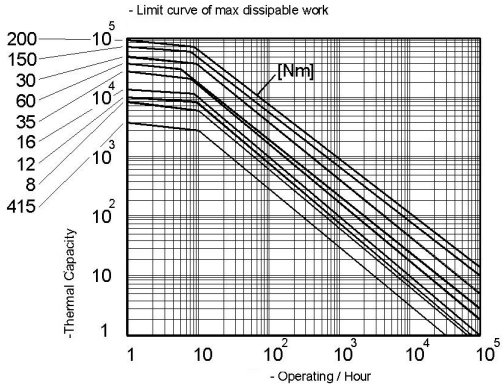
Approximated Brake Selection
Its only the motor power and its maximum speed are known:

W [Watt]: Motor Nominal Power

$$M_f = \frac{W}{(\frac{2\pi \times n_0}{60})} \times C_s \quad (C_s \geq 2)$$

Standard Brakes

Brake Static Torque [Nm]	4,5	8	12	16	35	60	80	150	200
Brake Dynamic Torque [Nm]	3,6	6,4	9,6	12,8	28	48	64	120	160
Maximum Motor Speed [rpm]	3000	3000	3000	3000	3000	3000	3000	1500	1500
Input Power [W]	15	20	25	30	45	50	55	60	65



Brakes - Thermal Capacity

The thermal capacity of the brake must also be checked after the above mentioned calculations.The heat dissipation energy L (joule) can be calculated from the following equation and must be checked if the result is under the limit curve shown on ''Limit curve of may dissipable work''.

a) The static load torgue M_L ,favours the rotation of the motor (Descent of a load which favours the rotation of the motor)

$$L = \frac{I_{tot} \times (2\pi \times n_0 \div 60)^2}{2} \times \left(\frac{M_f}{M_f - M_L}\right)$$

b) The static load torgue M_L ,opposes the rotation of the motor (Lifting of a load which opposes the rotation of the motor)

$$L = \frac{I_{tot} \times (2\pi \times n_0 \div 60)^2}{2} \times \left(\frac{M_f}{M_f + M_L}\right)$$

c) The static load torgue M_L ,is constant and opposes or favours the rotation of the motor (except lifting of a load)

$$L = \frac{I_{tot} \times (2\pi \times n_0 \div 60)^2}{2}$$

Adjustment of the air-gap:

In order to obtain the same performance from the brake during its lifetime,the air-gap of the brake must be re-adjusted after a limited time of operation For the air-gap and the time interval of the adjustment please contact us.

Selection Example:
The maximum admitted time for braking 0,5 s
Motor speed: 1400 rpm
Total inertia reduced at motor shaft: 0,08 kgm^2

Required operating torque:50 Nm
Nature of load: Load direction is same as motor direction(Unloading process: Start-stop time per hour :30)

$$M_{fc} = \frac{(2\pi \times 1400 \div 60)}{0,5 \times 0,995} + 50 = 73,6\ Nm$$

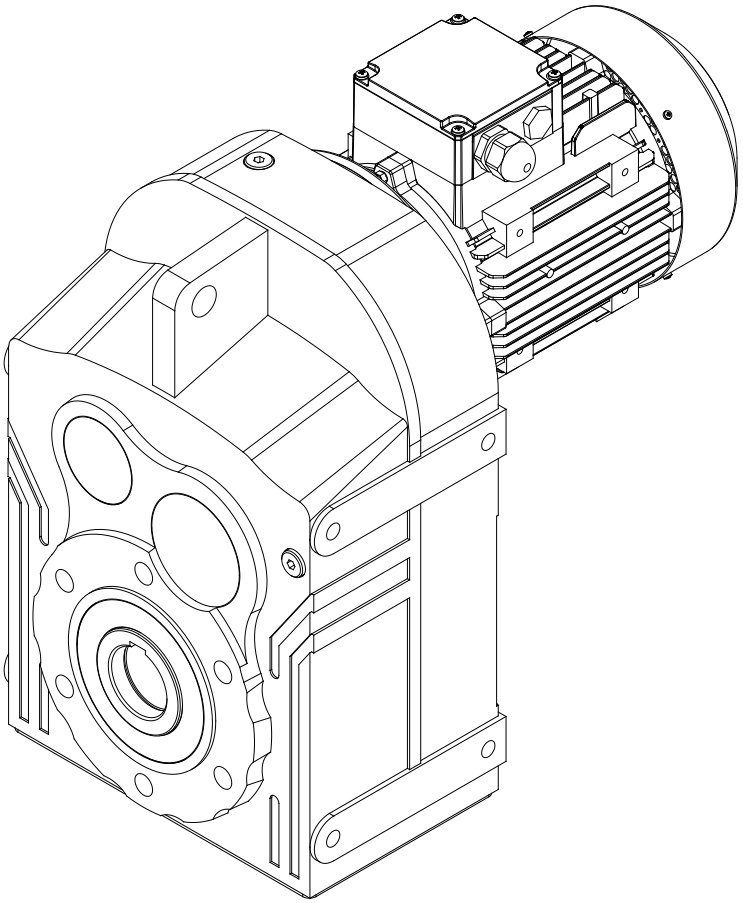
$$M_f = 73,6 \times 2 = 147,2\ Nm$$

From the brake selection table a standard brake of 150 Nm is selected.
Necessary thermal capacity

$$L = \frac{0,08 \times (2\pi \times 1400 \div 60)^2}{2} \times \left(\frac{147,2}{147,2 - 50}\right) = 1302,0 < 18000 \text{ Joule (from 150 Nm curve)}$$

The selected brake with 150 Nm is suitable.

PERFORMANCE TABLES

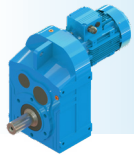


DR version are referenced in the following performace tables, if electric motor data are known you can either select DV, DN version using the same tables or through the on line configurator.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	Output Speeds n_2 [r.p.m]	Output Torque M_2 [Nm]	Ratio i	Radial Loads (Output) F_{qam} [N]	Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	Motor Eff. Class
0,12 0,16	0,16 0,19 0,22 0,23 0,27 0,31 0,36	5541 4711 4123 3870 3293 2866 2512	**8471,90** **7216,80** **6304,09** **5912,93** **5027,18** **4366,47** **3820,66**	4977 24512 31273 33651 38311 41267 43388	0,8 0,9 1,0 1,1 1,3 1,5 1,7	**DR676-G63/4a**	0,41	283	132	IE1
	0,42 0,48 0,56 0,64 0,68	2152 1919 1631 1427 1340	**3215,89** **2865,49** **2440,98** **2132,27** **1999,96**	45372 46557 47918 48824 49198	2,0 2,2 2,6 3,0 3,2	**DR675-G63/4a**	0,41	280	132	IE1
	0,24 0,28 0,32	3780 3216 2799	**5762,85** **4899,59** **4255,64**	- 18917 24674	0,8 0,9 1,1	**DR576-G63/4a**	0,41	165	126	IE1
	0,40 0,47 0,57 0,66 0,70 0,82 0,95	2297 1943 1593 1394 1308 1113 968	**3432,03** **2900,65** **2379,02** **2078,15** **1949,20** **1657,21** **1439,41**	29798 32737 35176 36430 36939 38040 38802	1,3 1,5 1,9 2,2 2,3 2,7 3,1	**DR575-G63/4a**	0,41	162	126	IE1
	0,48 0,57	1874 1568	**2851,73** **2381,67**	11587 16679	0,8 1,0	**DR476-G63/4a**	0,41	120	120	IE1
	0,70 0,84 0,89 0,91 1,2 1,3 1,5 1,8 2,1	1301 1087 1028 1002 767 717 607 508 439	**1937,71** **1618,43** **1529,03** **1492,69** **1140,69** **1065,48** **900,55** **752,10** **648,55**	19839 21861 22342 22590 24345 24683 25389 25976 26362	1,2 1,4 1,5 1,5 2,0 2,2 2,6 3,1 3,5	**DR475-G63/4a**	0,41	119	120	IE1
	0,83 0,90 1,1	1074 972 832	**1639,97** **1484,14** **1272,49**	6508 9186 11780	0,8 0,8 1,0	**DR376-G63/4a**	0,41	79	114	IE1
	1,1 1,3 1,5 1,7 2,1 2,4 2,6 3,1 3,6	793 706 624 526 447 384 347 297 255	**1188,10** **1053,09** **930,99** **783,07** **665,75** **570,43** **516,22** **442,60** **378,91**	12374 13565 14557 15569 16295 16832 17118 17490 17787	1,0 1,2 1,3 1,6 1,8 2,1 2,4 2,8 3,2	**DR375-G63/4a**	0,41	78	114	IE1
	1,5 1,6 1,9 2,2 2,6	627 558 494 416 354	**936,69** **830,25** **733,99** **617,37** **524,87**	8724 10016 11030 12085 12804	1,0 1,1 1,2 1,4 1,7	**DR285-G63/4a**	0,41	35	110	IE1



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,12 0,16	3,0 3,4 3,9 4,6	303 275 235 202	**449,72** **406,99** **348,95** **298,73**	13332 13611 13972 14257	2,0 2,2 2,6 3,0	**DR285-G63/4a**	0,41	35	110	IE1
	1,7 1,9 2,3 2,7 3,3 3,8 4,1 5,4 6,4 6,6 7,5 9,1	552 483 400 334 280 240 223 169 145 140 123 102	**823,76** **720,79** **596,04** **497,10** **416,71** **356,74** **331,04** **251,08** **214,95** **207,93** **181,94** **150,45**	10203 11435 12678 13501 14094 14491 14652 15123 15315 15352 15485 15925	0,8 0,9 1,1 1,3 1,6 1,9 2,0 2,7 3,1 3,2 3,7 4,0	**DR275-G63/4a**	0,41	30	106	IE1
	9,9 11	107 93	**137,94** **120,49**	15782 16179	4,0 4,0	**DR273-G63/4a**	0,41	25	104	IE1
	9,6 11 13 15 16 19 23	110 93 80 71 66 56 47	**142,89** **120,64** **103,34** **91,25** **85,23** **72,04** **60,16**	6977 7187 7338 7438 7486 7588 7794	1,8 2,1 2,5 2,8 3,0 3,6 4,0	**DR173-G63/4a**	0,41	20	102	IE1
	7.6 9.3 10 11 14 16 19 20 22 26 31 36 39	139 113 103 93 78 66 57 52 49 41 35 30 28	**180.05** **146.60** **133.46** **120.11** **100.43** **85.12** **72.87** **67.62** **62.94** **52.62** **44.60** **38.18** **35.43**	4731 4540 4448 4344 4163 3994 3836 3760 3688 3511 3350 3204 3134	1.1 1.3 1.5 1.6 1.9 2.3 2.7 2.9 3.1 3.7 4.0 4.0 4.0	**DR073-G63/4a**	0,41	15	100	IE1
	37 44 49 55 65 75 85 91 108 130 156 167 197 236	29 24 22 20 17 14 13 12 10 8.3 6.9 6.4 5.4 4.5	**36.86** **30.71** **27.64** **25.01** **21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	3171 3005 2912 2826 2684 2559 2463 2411 2287 2161 2034 1990 1886 1781	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	**DR072-G63/4a**	0,41	14	100	IE1
0,18 0,25	0,09 0,11	14882 13071	**9820,98** **8612,25**	65042 76314	0,9 1,0	**DR876-3E71M/6C** **DR876-2E71M/6B**	0,55 0,60	482 481	144	IE3 IE2

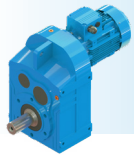
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,18 0,25	0,12 0,14 0,16 0,18 0,20 0,23 0,27	11573 10187 9041 8078 7256 6116 5209	**7613,73** **6697,26** **5940,18** **5304,23** **4762,49** **4005,78** **3405,63**	84108 90324 94908 98429 101216 104787 107242	1,1 1,3 1,4 1,6 1,8 2,1 2,5	**DR876-3E71M/6C** **DR876-2E71M/6B**	0,55 0,60	482 481	144	IE3 IE2
	0,31 0,35 0,39	4673 4196 3678	**2990,66** **2683,53** **2356,74**	108721 109985 111300	2,8 3,1 3,5	**DR875-3E71M/6C** **DR875-2E71M/6B**	0,55 0,60	507 506	144	IE3 IE2
	0,14 0,16 0,18 0,21	9379 8969 7718 6625	**6492,84** **5875,88** **5058,99** **4334,63**	43918 47757 57458 64282	0,9 0,9 1,0 1,2	**DR776-3E71M/6C** **DR776-2E71M/6B**	0,55 0,60	317 316	138	IE3 IE2
	0,25 0,28 0,33 0,37 0,41 0,47 0,56 0,62 0,70	5759 5156 4450 3939 3525 3101 2596 2360 2076	**3691,20** **3302,14** **2855,58** **2523,53** **2257,90** **1982,78** **1656,07** **1507,38** **1323,71**	68895 71781 74860 76914 78476 79874 81594 82358 83245	1,4 1,6 1,8 2,0 2,3 2,6 3,1 3,4 3,9	**DR775-3E71M/6C** **DR775-2E71M/6B**	0,55 0,60	307 306	138	IE3 IE2
	0,27 0,31 0,35	5311 4622 4051	**5027,18** **4366,47** **3820,66**	13734 25702 31971	0,8 0,9 1,1	**DR676-G63/4b**	0,60	283	132	IE1
	0,42 0,47 0,55 0,63 0,67 0,79 0,91 1,0 1,3 1,5 1,8	3470 3094 2631 2302 2161 1839 1600 1402 1162 971 816	**3215,89** **2865,49** **2440,98** **2132,27** **1999,96** **1700,37** **1476,89** **1292,28** **1068,62** **891,23** **747,10**	36975 39716 42685 44625 45309 46946 48062 48933 49932 52171 54578	1,2 1,4 1,6 1,9 2,0 2,3 2,7 3,1 3,7 4,0 4,0	**DR675-G63/4b**	0,60	225	132	IE1
	0,39 0,46 0,56 0,64 0,69 0,81 0,93 1,1	3705 3134 2569 2248 2110 1795 1562 1369	**3432,03** **2900,65** **2379,02** **2078,15** **1949,20** **1657,21** **1439,41** **1259,48**	6392 20225 27195 30229 31392 33794 35377 36555	0,8 1,0 1,2 1,3 1,4 1,7 1,9 2,2	**DR575-G63/4b**	0,60	164	126	IE1
	1,3 1,5 1,9	1157 980 803	**720,91** **609,29** **499,72**	37796 38690 39581	2,6 3,1 3,7	**DR574-3E71M/6C** **DR574-2E71M/6B**	0,55 0,60	161 160	124	IE3 IE2
	0,69 0,83	2098 1754	**1937,71** **1618,43**	4420 13875	0,7 0,9	**DR475-G63/4b**	0,60	119	120	IE1

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,18 0,25	0,88 0,90 1,2 1,3	1658 1616 1238 1157	**1529,03** **1492,69** **1140,69** **1065,48**	15413 16026 20473 21241	0,9 1,0 1,3 1,3	**DR475-G63/4b**	0,60	119	120	IE1
	1,6 1,8 2,0	939 840 738	**584,15** **522,66** **458,98**	23051 23833 24543	1,7 1,8 2,1	**DR474-3E71M/6C** **DR474-2E71M/6B**	0,55 0,60	116 115	120	IE3 IE2
	2,3 2,6 2,9	652 583 513	**584,15** **522,66** **458,98**	25109 25535 25950	2,4 2,7 3,0	**DR474-G63/4b**	0,60	122	120	IE1
	1,3 1,4 1,7 2,0 2,3 2,6 3,0 3,5 3,8 4,0 4,3	1138 1007 848 722 619 560 480 411 382 362 337	**1053,09** **930,99** **783,07** **665,75** **570,43** **516,22** **442,60** **378,91** **351,62** **333,87** **309,82**	3774 8386 11523 13362 14600 15225 16023 16603 16843 17000 17199	0,7 0,8 1,0 1,1 1,3 1,5 1,7 2,0 2,1 2,3 2,4	**DR375-G63/4b**	0,60	78	114	IE1
	5,4 6,2 7,6	295 260 209	**171,89** **151,15** **121,67**	17481 17734 18075	2,8 3,2 3,9	**DR373-3E71M/6C** **DR373-2E71M/6B**	0,55 0,60	72 71	112	IE3 IE2
	1,8 2,2 2,6 3,0 3,3 3,8 4,5 4,8 5,1 5,5 6,3	796 670 570 489 443 379 325 302 287 266 232	**733,99** **617,37** **524,87** **449,72** **406,99** **348,95** **298,73** **277,21** **263,22** **244,26** **212,12**	3280 7760 9801 11096 11733 12517 13117 13335 13476 13689 14001	0,8 0,9 1,1 1,2 1,4 1,6 1,8 2,0 2,1 2,3 2,6	**DR285-G63/4b**	0,60	38	110	IE1
	6,9 7,8 8,3 9,7	233 205 193 165	**135,52** **119,16** **112,15** **95,92**	13986 14207 14307 14534	2,6 2,9 3,1 3,6	**DR283-3E71M/6C** **DR283-2E71M/6B**	0,55 0,60	35 34	108	IE3 IE2
	2,7 3,2 3,8 4,0 5,3	539 452 388 360 273	**497,10** **416,71** **356,74** **331,04** **251,08**	10461 11931 12837 13188 14169	0,8 1,0 1,2 1,2 1,6	**DR275-G63/4b**	0,60	30	106	IE1
	6,7 7,7 8,2 9,7	237 207 195 165	**137,94** **120,49** **113,02** **96,09**	14523 14777 14891 15140	1,9 2,2 2,3 2,7	**DR273-3E71M/6C** **DR273-2E71M/6B**	0,55 0,60	27 26	104	IE3 IE2
	9,7 11	164 143	**137,94** **120,49**	15165 15329	2,7 3,1	**DR273-G63/4b**	0,60	22	104	IE1

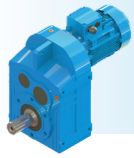
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,18 0,25	11 13 16 18	135 114 100 87	**113,02** **96,09** **83,46** **73,03**	15380 15547 15996 16343	3,3 3,9 4,0 4,0	**DR273-G63/4b**	0,60	22	104	IE1
	6,5 7,7 9,0	245 207 178	**142,89** **120,64** **103,34**	4391 5351 5941	0,8 1,0 1,1	**DR173-3E71M/6C** **DR173-2E71M/6B**	0,55 0,60	23 22	102	IE3 IE2
	9,4 11 13 15 16 19 22 26 28 30 35 43	170 143 123 109 102 86 72 62 57 53 45 38	**142,89** **120,64** **103,34** **91,25** **85,23** **72,04** **60,16** **51,88** **47,81** **44,66** **37,75** **31,52**	6085 6512 6809 6997 7087 7263 7426 7526 7571 7604 7860 8138	1,2 1,4 1,6 1,8 2,0 2,3 2,8 3,2 3,5 3,7 4,0 4,0	**DR173-G63/4b**	0,60	20	102	IE1
	7.4 9,1 10 11 13 16 18 20 21 25 30 35 38	213 174 159 143 119 101 87 81 75 63 53 46 42	**180.05** **146.60** **133.46** **120.11** **100.43** **85.12** **72.87** **67.62** **62.94** **52.62** **44.60** **38.18** **35.43**	4208 4126 4076 4013 3893 3771 3649 3589 3530 3383 3245 3116 3054	0.7 0.9 0.9 1.1 1.3 1.5 1.7 1.9 2.0 2.4 2.8 3.3 3.5	**DR073-G63/4b**	0,60	15	100	IE1
	36 44 48 54 63 74 84 90 106 127 153 164 194 232	45 37 34 30 26 22 19 18 15 13 11 9.9 8.4 7.0	**36.86** **30.71** **27.64** **25.01** **21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	3087 2938 2853 2773 2642 2525 2434 2385 2267 2145 2020 1978 1877 1775	3.4 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	**DR072-G63/4b**	0,60	14	100	IE1
	268 322 345 408 488	6.0 5.0 4.6 3.9 3.2	**10.53** **8.76** **8.18** **6.91** **5.77**	1700 1600 1565 1484 1400	4.0 4.0 4.0 4.0 4.0	**DR072-G63/2a**	0,50	16	100	IE1
0,25 0,34	0,15 0,17 0,19	13678 12013 10636	**9820,98** **8612,25** **7613,73**	72993 81952 88397	1,0 1,1 1,2	**DR876-3E71M/4C** **DR876-2E71M/4B**	0,67 0,71	517 516	144	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,25 0,34	0,21 0,24 0,27 0,30 0,36 0,42	9363 8310 7424 6669 5621 4788	**6697,26** **5940,18** **5304,23** **4762,49** **4005,78** **3405,63**	93668 97608 100662 102950 106124 108461	1,4 1,6 1,8 1,9 2,3 2,7	**DR876-3E71M/4C** **DR876-2E71M/4B**	0,67 0,71	517 516	144	IE3 IE2
	0,48 0,53 0,61	4295 3856 3381	**2990,66** **2683,53** **2356,74**	109770 110891 112120	3,0 3,4 3,8	**DR875-3E71M/4C** **DR875-2E71/M4B**	0,67 0,71	507 506	144	IE3 IE2
	0,24 0,28 0,33 0,37	8243 7094 6089 5516	**5875,88** **5058,99** **4334,63** **3922,75**	53790 61512 67209 69974	1,0 1,1 1,3 1,5	**DR776-3E71M/4C** **DR776-2E71M/4B**	0,67 0,71	317 316	138	IE3 IE2
	0,39 0,43 0,50 0,57 0,64 0,72 0,87 0,95	5293 4738 4090 3620 3240 2850 2386 2169	**3691,20** **3302,14** **2855,58** **2523,53** **2257,90** **1982,78** **1656,07** **1507,38**	71146 73639 76208 78031 79424 80780 82304 82984	1,5 1,7 2,0 2,2 2,5 2,8 3,4 3,7	**DR775-3E71M/4C** **DR775-2E71M/4B**	0,67 0,71	307 306	138	IE3 IE2
	0,38	5365	**3820,66**	12259	0,8	**DR676-3E71M/4C** **DR676-2E71M/4B**	0,67 0,71	286 285	132	IE3 IE2
	0,45 0,50 0,59 0,67 0,72 0,84 0,97 1,1	4596 4098 3484 3049 2862 2435 2119 1857	**3215,89** **2865,49** **2440,98** **2132,27** **1999,96** **1700,37** **1476,89** **1292,28**	26001 31548 36869 40028 41201 43830 45468 46795	0,9 1,0 1,2 1,4 1,5 1,8 2,0 2,3	**DR675-3E71M/4C** **DR675-2E71M/4B**	0,67 0,71	228 227	132	IE3 IE2
	1,4 1,5 1,8	1539 1372 1167	**675,51** **601,90** **512,73**	48262 48998 49860	2,8 3,1 3,7	**DR674-3E71M/6D** **DR674-2E71M/6C**	0,77 0,78	222 221	130	IE3 IE2
	0,60 0,69 0,74 0,87 1,0 1,1	3402 2977 2794 2377 2068 1813	**2379,02** **2078,15** **1949,20** **1657,21** **1439,41** **1259,48**	15470 22379 24736 29070 31731 33669	0,9 1,0 1,1 1,3 1,5 1,7	**DR575-3E71M/4C** **DR575-2E71M/4B**	0,67 0,71	166 165	126	IE3 IE2
	1,3 1,5 1,9	1641 1389 1139	**720,91** **609,29** **499,72**	34856 36458 37896	1,8 2,2 2,6	**DR574-3E71M/6D** **DR574-2E71M/6C**	0,77 0,78	162 161	124	IE3 IE2
	2,0 2,4	1064 900	**720,91** **609,29**	38264 39116	2,8 3,3	**DR574-3E71M/4C** **DR574-2E71M/4B**	0,67 0,71	161 160	124	IE3 IE2
	1,3 1,3	1639 1532	**1140,69** **1065,48**	15667 17184	0,9 1,0	**DR475-3E71M/4C** **DR475-2E71M/4B**	0,67 0,71	123 122	120	IE3 IE2

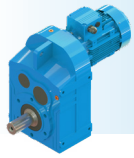
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,25 0,34	1,6 1,8 2,0	1332 1191 1047	**584,15** **522,66** **458,98**	19550 20924 22211	1,2 1,3 1,5	**DR474-3E71M/6D** **DR474-2E71M/6C**	0,77 0,78	118 117	118	IE3 IE2
	2,5 2,7 3,1	863 772 679	**584,15** **522,66** **458,98**	23664 24276 24906	1,8 2,0 2,3	**DR474-3E71M/4C** **DR474-2E71M/4B**	0,67 0,71	118 117	118	IE3 IE2
	3,8 4,3 5,3	582 515 420	**242,68** **215,03** **174,97**	25504 25901 26439	2,7 3,0 3,7	**DR473-3E71M/6D** **DR473-2E71M/6C**	0,77 0,78	112 111	116	IE3 IE2
	2,2 2,5 2,8 3,2 3,8 4,1 4,3 4,6	956 819 742 635 545 506 480 446	**665,75** **570,43** **516,22** **442,60** **378,91** **351,62** **333,87** **309,82**	9491 12007 13095 14416 15380 15758 16001 16280	0,9 1,0 1,1 1,3 1,5 1,6 1,7 1,8	**DR375-3E71M/4C** **DR375-2E71M/4B**	0,67 0,71	82 81	114	IE3 IE2
	5,4 6,2 7,4	411 362 301	**171,89** **151,15** **121,67**	16604 17004 17463	2,0 2,3 2,7	**DR373-3E71M/6D** **DR373-2E71M/6C**	0,77 0,78	72 71	112	IE3 IE2
	8,3 9,5	266 234	**171,89** **151,15**	17696 17915	3,1 3,5	**DR373-3E71M/4C** **DR373-2E71M/4B**	0,67 0,71	71 70	112	IE3 IE2
	2,7 3,2 3,5 4,1 4,8 5,2 5,5 5,9 6,8	755 648 586 502 431 400 379 352 307	**524,87** **449,72** **406,99** **348,95** **298,73** **277,21** **263,22** **244,26** **212,12**	5217 8258 9531 10907 11868 12270 12513 12816 13274	0,8 0,9 1,0 1,2 1,4 1,5 1,6 1,7 2,0	**DR285-3E71M/4C** **DR285-3E71M/4B**	0,67 0,71	42 41	110	IE3 IE2
	6,9 7,8 8,3 9,7	325 286 269 230	**135,52** **119,16** **112,15** **95,92**	13110 13501 13660 14013	1,8 2,1 2,2 2,6	**DR283-3E71M/6D** **DR283-2E71M/6C**	0,77 0,78	37 36	108	IE3 IE2
	11 12 13	210 185 174	**135,52** **119,16** **112,15**	14171 14380 14477	2,9 3,2 3,4	**DR283-3E71M/4C** **DR283-2E71M/4B**	0,67 0,71	36 35	108	IE3 IE2
	4,0 4,3 5,7	513 477 361	**356,74** **331,04** **251,08**	10925 11541 13172	0,9 0,9 1,2	**DR275-3E71M/4C** **DR275-2E71M/4B**	0,67 0,71	33 32	106	IE3 IE2
	6,7 7,7 8,2 9,7	330 289 271 230	**137,94** **120,49** **113,02** **96,09**	13548 14006 14191 14587	1,4 1,6 1,7 2,0	**DR273-3E71M/6D** **DR273-2E71M/6C**	0,77 0,78	27 26	104	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,25 0,34	10 11 12 14 17 19 23	214 187 175 149 130 114 94	**137,94** **120,49** **113,02** **96,09** **83,46** **73,03** **60,39**	14725 14963 15061 15284 15434 15554 16165	2,1 2,4 2,6 3,0 3,5 4,0 4,0	**DR273-3E71M/4C** **DR273-2E71M/4B**	0,67 0,71	26 25	104	IE3 IE2
	10 12 14 16 17 20 24 28 30 32 38 46	221 187 160 142 132 112 94 81 74 70 59 49	**142,89** **120,64** **103,34** **91,25** **85,23** **72,04** **60,16** **51,88** **47,81** **44,66** **37,75** **31,52**	5043 5768 6246 6541 6668 6948 7183 7327 7393 7440 7559 7675	0,9 1,1 1,2 1,4 1,5 1,8 2,1 2,5 2,7 2,9 3,4 4,0	**DR173-3E71M/4C** **DR173-2E71M/4B**	0,67 0,71	23 22	102	IE3 IE2
	11 12 14 17 20 21 23 27 32 38 41	206 186 156 132 113 105 98 82 69 59 55	**133.46** **120.11** **100.43** **85.12** **72.87** **67.62** **62.94** **52.62** **44.60** **38.18** **35.43**	3594 3575 3519 3446 3364 3321 3277 3163 3051 2943 2890	0.7 0.8 1.0 1.1 1.3 1.4 1.5 1.8 2.2 2.5 2.7	**DR073-3E71M/4C** **DR073-2E71M/4B**	0,67 0,71	17 16	100	IE3 IE2
	39 47 52 57 68 79 90 96 114 136 164 175 208 249	58 48 44 39 33 29 25 24 20 17 14 13 11 9.1	**36.86** **30.71** **27.64** **25.01** **21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	2918 2790 2715 2645 2527 2421 2337 2292 2183 2070 1950 1910 1816 1718	2.6 3.1 3.4 3.8 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	**DR072-3E71M/4C** **DR072-2E71M/4B**	0,67 0,71	16 15	100	IE3 IE2
	270 324 347 411 492	8.3 6.9 6.5 5.4 4.5	**10.53** **8.76** **8.18** **6.91** **5.77**	1681 1582 1549 1469 1388	4.0 4.0 4.0 4.0 4.0	**DR072-G63/2b**	0,67	17	100	IE1
0,37 0,50	0,13 0,17 0,20 0,25 0,30 0,32	23148 18163 15205 12240 10248 9690	**7017,74** **5494,80** **4589,41** **3686,99** **3079,47** **2909,37**	183787 199937 208242 215571 219985 221154	0,8 1,0 1,2 1,5 1,8 1,9	**DR976-3E80M/6B** **DR976-2E80M/6A**	1,03 1,08	804 803	150	IE3 IE2

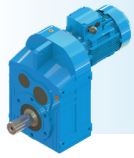
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,37 0,50	0,45 0,50 0,58 0,66	7066 6348 5408 4771	**2079,97** **1867,46** **1591,90** **1403,36**	226259 227547 229169 230224	2,5 2,8 3,3 3,8	**DR975-3E80M/6B** **DR975-2E80M/6A**	1,03 1,08	792 791	150	IE3 IE2
	0,19 0,21 0,24 0,27 0,30 0,36 0,42	16228 14285 12678 11327 10175 8576 7305	**7613,73** **6697,26** **5940,18** **5304,23** **4762,49** **4005,78** **3405,63**	54505 69094 78510 85270 90375 96644 101056	0,8 0,9 1,0 1,1 1,3 1,5 1,8	**DR876-3E71M/4D** **DR876-2E71M/4C**	0,97 1,00	517 516	144	IE3 IE2
	0,48 0,53 0,61 0,70 0,79 0,88	6553 5884 5158 4495 3979 3561	**2990,66** **2683,53** **2356,74** **2051,67** **1813,10** **1622,25**	103314 105351 107441 109244 110582 111624	2,0 2,2 2,5 2,9 3,3 3,7	**DR875-3E71M/4D** **DR875-2E71M/4C**	0,97 1,00	507 506	144	IE3 IE2
	0,33 0,37	9290 8416	**4334,63** **3922,75**	44601 52417	0,9 1,0	**DR776-3E71M/4D** **DR776-2E71M/4C**	0,97 1,00	317 316	138	IE3 IE2
	0,39 0,72 0,87 0,95 1,1 1,3	8076 4349 3641 3309 2911 2438	**3691,20** **1982,78** **1656,07** **1507,38** **1323,71** **1105,59**	55068 75155 77955 79175 80572 82139	1,0 1,8 2,2 2,4 2,7 3,3	**DR775-3E71M/4D** **DR775-2E71M/4C**	0,97 1,00	307 306	138	IE3 IE2
	0,59 0,67 0,72 0,84 0,97 1,1	5316 4652 4367 3715 3232 2833	**2440,98** **2132,27** **1999,96** **1700,37** **1476,89** **1292,28**	13612 25280 28653 35001 38750 41394	0,8 0,9 1,0 1,2 1,3 1,5	**DR675-3E71M/4D** **DR675-2E71M/4C**	0,97 1,00	228 227	132	IE3 IE2
	1,4 1,5 1,8	2347 2094 1781	**675,51** **601,90** **512,73**	44307 45615 47176	1,8 2,1 2,4	**DR674-3E80M/6B** **DR674-2E80M/6A**	1,03 1,08	225 224	130	IE3 IE2
	2,1 2,4 2,8	1521 1357 1154	**675,51** **601,90** **512,73**	48366 49086 49931	2,8 3,2 3,7	**DR674-3E71M/4D** **DR674-2E71M/4C**	0,97 1,00	222 221	130	IE3 IE2
	0,87 1,0 1,1	3627 3156 2766	**1657,21** **1439,41** **1259,48**	9632 19861 25078	0,8 1,0 1,1	**DR575-3E71M/4D** **DR575-2E71M/4C**	0,97 1,00	166 165	126	IE3 IE2
	1,3 1,5 1,9	2504 2119 1738	**720,91** **609,29** **499,72**	27850 31317 34195	1,2 1,4 1,7	**DR574-3E80M/6B** **DR574-2E80M/6A**	1,03 1,08	162 161	124	IE3 IE2
	2,0 2,4 2,9	1623 1374 1127	**720,91** **609,29** **499,72**	34978 36494 37923	1,8 2,2 2,7	**DR574-3E71M/4D** **DR574-2E71M/4C**	0,97 1,00	161 160	124	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,37 0,50	3,6	906	**255,83**	39089	3,3	**DR573-3E80M/6B** **DR573-2E80M/6A**	1,03 1,08	156 155	122	IE3 IE2
	1,8 2,0	1818 1598	**522,66** **458,98**	12659 16315	0,9 1,0	**DR474-3E80M/6B** **DR474-2E80M/6A**	1,03 1,08	121 120	118	IE3 IE2
	2,5 2,7 3,1	1317 1178 1036	**584,15** **522,66** **458,98**	19670 21049 22310	1,2 1,3 1,5	**DR474-3E71M/4D** **DR474-2E71M/4C**	0,97 1,00	118 117	118	IE3 IE2
	3,8 4,3 5,3	860 762 621	**242,68** **215,03** **174,97**	23651 24354 25280	1,8 2,0 2,5	**DR473-3E80M/6B** **DR473-2E80M/6A**	1,03 1,08	113 112	116	IE3 IE2
	5,9 6,7	559 495	**242,68** **215,03**	25654 26027	2,8 3,1	**DR473-3E71M/4D** **DR473-2E71M/4C**	0,97 1,00	110 109	116	IE3 IE2
	3,2 3,8 4,1 4,3 4,6	969 831 772 732 680	**442,60** **378,91** **351,62** **333,87** **309,82**	9249 11814 12674 13220 13882	0,8 1,0 1,1 1,1 1,2	**DR375-3E71M/4D** **DR375-2E71M/4C**	0,97 1,00	82 81	114	IE3 IE2
	5,4 6,2 7,6	608 535 431	**171,89** **151,15** **121,67**	14717 15455 16416	1,3 1,5 1,9	**DR373-3E80M/6B** **DR373-2E80M/6A**	1,03 1,08	75 74	112	IE3 IE2
	8,3 9,5 11 13	395 348 280 246	**171,89** **151,15** **121,67** **106,69**	16714 17094 17598 17836	2,1 2,4 2,9 3,3	**DR373-3E71M/4D** **DR373-2E71M/4C**	0,97 1,00	72 71	112	IE3 IE2
	4,1 4,8 5,2 5,5 5,9	766 657 610 579 538	**348,95** **298,73** **277,21** **263,22** **244,26**	4790 8036 9060 9669 10350	0,8 0,9 1,0 1,0 1,1	**DR285-3E71M/4D** **DR285-2E71M/4C**	0,97 1,00	42 41	110	IE3 IE2
	6,9 7,8 8,3 9,7	480 423 398 341	**135,52** **119,16** **112,15** **95,92**	11219 11988 12292 12924	1,2 1,4 1,5 1,8	**DR283-3E80M/6B** **DR283-2E80M/6A**	1,03 1,08	37 36	108	IE3 IE2
	11 12 13 15 17 19	312 275 259 221 194 172	**135,52** **119,16** **112,15** **95,92** **84,12** **74,36**	13217 13588 13740 14076 14305 14496	1,9 2,2 2,3 2,7 3,1 3,5	**DR283-3E71M/4D** **DR283-2E71M/4C**	0,97 1,00	35 34	108	IE3 IE2
	6,7 7,7 8,2 9,7	488 427 400 340	**137,94** **120,49** **113,02** **96,09**	11361 12304 12669 13404	0,9 1,1 1,1 1,3	**DR273-3E80M/6B** **DR273-2E80M/6A**	1,03 1,08	30 29	104	IE3 IE2

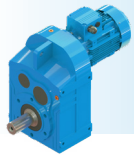
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,37 0,50	10 11 12 14 17 19 23 28 34 39	317 277 260 221 192 169 140 117 98 84	**137,94** **120,49** **113,02** **96,09** **83,46** **73,03** **60,39** **50,36** **42,22** **36,38**	13694 14103 14278 14655 14915 15118 15359 15532 16051 16431	1,4 1,6 1,7 2,0 2,3 2,7 3,2 3,9 4,0 4,0	**DR273-3E71M/4D** **DR273-2E71M/4C**	0,97 1,00	27 26	104	IE3 IE2
	14 16 17 20 24 28 30 32 38 46	238 210 196 166 139 120 110 103 87 73	**103,34** **91,25** **85,23** **72,04** **60,16** **51,88** **47,81** **44,66** **37,75** **31,52**	4596 5288 5576 6147 6581 6850 6972 7061 7256 7408	0,8 1,0 1,0 1,2 1,4 1,7 1,8 1,9 2,3 2,7	**DR173-3E71M/4D** **DR173-2E71M/4C**	0,97 1,00	23 22	102	IE3 IE2
	48 57 66 75	70 59 51 45	**29,67** **25,24** **21,79** **19,04**	7441 7523 7217 6941	2,9 3,4 3,9 4,0	**DR172-3E71M/4D** **DR172-2E71M/4C**	0,97 1,00	21 20	102	IE3 IE2
	17 20 21 23 27 32 38 41	196 168 156 145 121 103 88 82	**85.12** **72.87** **67.62** **62.94** **52.62** **44.60** **38.18** **35.43**	2958 2953 2941 2926 2873 2809 2738 2701	0.8 0.9 1.0 1.0 1.2 1.5 1.7 1.8	**DR073-3E71M/4D** **DR073-2E71M/4C**	0,97 1,00	16 15	100	IE3 IE2
	39 47 52 57 68 79 90 96 114 136 164 175 208 249	86 72 65 59 50 43 38 35 30 25 21 19 16 14	**36.86** **30.71** **27.64** **25.01** **21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	2720 2626 2569 2513 2417 2327 2255 2215 2118 2016 1901 1865 1777 1686	1.7 2.1 2.3 2.6 3.0 3.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	**DR072-3E71M/4D** **DR072-2E71M/4C**	0,97 1,00	15 14	100	IE3 IE2
	269 323 346 409	12 10 10 8.2	**10.53** **8.76** **8.18** **6.91**	1656 1559 1528 1452	4.0 4.0 4.0 4.0	**DR072-3E71M/2B** **DR072-2E71M/2A**	0,86 0,90	17 16	100	IE3 IE2
0,55 0,75	0,21 0,26 0,32 0,39	22069 17317 14496 11669	**7017,74** **5494,80** **4589,41** **3686,99**	187652 202689 210277 216743	0,8 1,0 1,2 1,5	**DR976-3E80M/4C** **DR976-2E80M/4B**	1,34 1,45	804 803	150	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,55 0,75	0,47 0,50	9771 9238	**3079,47** **2909,37**	220885 221983	1,8 1,9	**DR976-3E80M/4C** **DR976-2E80M/4B**	1,34 1,45	804 803	150	IE3 IE2
	0,70 0,78 0,91	6736 6052 5156	**2079,97** **1867,46** **1591,90**	226794 228013 229547	2,7 3,0 3,5	**DR975-3E80M/4C** **DR975-2E80M/4B**	1,34 1,45	792 791	150	IE3 IE2
	0,30 0,36 0,43	14969 12616 10746	**4762,49** **4005,78** **3405,63**	64430 78918 87913	0,9 1,0 1,2	**DR876-3E80M/4C** **DR876-2E80M/4B**	1,34 1,45	520 519	144	IE3 IE2
	0,48 0,54 0,62 0,71 0,80 0,89 1,0 1,2 1,4	9640 8656 7588 6613 5854 5239 4609 3859 3397	**2990,66** **2683,53** **2356,74** **2051,67** **1813,10** **1622,25** **1424,58** **1189,85** **1046,63**	92569 96350 100112 103271 105562 107165 108901 110853 111995	1,3 1,5 1,7 2,0 2,2 2,5 2,8 3,4 3,8	**DR875-3E80M/4C** **DR875-2E80M/4B**	1,34 1,45	510 509	144	IE3 IE2
	0,51 0,57 0,64 0,73 0,88 0,96 1,1 1,3	9181 8126 7272 6397 5356 4868 4283 3586	**2855,58** **2523,53** **2257,90** **1982,78** **1656,07** **1507,38** **1323,71** **1105,59**	45826 54478 60514 65553 70852 73071 75549 78253	0,9 1,0 1,1 1,3 1,5 1,6 1,9 2,2	**DR775-3E80M/4C** **DR775-2E80M/4B**	1,34 1,45	310 309	138	IE3 IE2
	1,5 1,7 1,9	3262 2921 2523	**632,92** **566,21** **489,64**	79426 80608 81922	2,5 2,7 3,2	**DR774-3E80M/6C** **DR774-2E80M/6B**	1,47 1,50	303 302	136	IE3 IE2
	0,98 1,1	4755 4168	**1476,89** **1292,28**	23887 30820	0,9 1,0	**DR675-3E80M/4C** **DR675-2E80M/4B**	1,34 1,45	331 330	132	IE3 IE2
	1,4 1,6 1,8	3471 3096 2633	**675,51** **601,90** **512,73**	36972 39707 42671	1,2 1,4 1,6	**DR674-3E80M/6C** **DR674-2E80M/6B**	1,47 1,50	225 224	130	IE3 IE2
	2,1 2,4 2,8 3,4 4,0	2238 1996 1698 1409 1206	**675,51** **601,90** **512,73** **424,33** **362,91**	44914 46171 47611 48840 49703	1,9 2,2 2,5 3,1 3,6	**DR674-3E80M/4C** **DR674-2E80M/4B**	1,34 1,45	225 224	130	IE3 IE2
	1,5 1,9	3134 2570	**609,29** **499,72**	20249 27186	1,0 1,2	**DR574-3E80M/6C** **DR574-2E80M/6B**	1,47 1,50	162 161	124	IE3 IE2
	2,0 2,4 2,9	2388 2021 1657	**720,91** **609,29** **499,72**	29025 32110 34749	1,3 1,5 1,8	**DR574-3E80M/4C** **DR574-2E80M/4B**	1,34 1,45	163 162	124	IE3 IE2

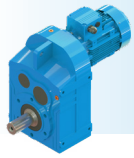
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,55 0,75	3,7 4,5	1342 1103	**255,83** **209,81**	36738 38094	2,2 2,7	**DR573-3E80M/6C** **DR573-2E80M/6B**	1,47 1,50	156 155	122	IE3 IE2
	5,7	867	**255,83**	39263	3,5	**DR573-3E80M/4C** **DR573-2E80M/4B**	1,34 1,45	155 154	122	IE3 IE2
	2,5 2,8 3,2	1937 1733 1523	**584,15** **522,66** **458,98**	10111 14215 17235	0,8 0,9 1,0	**DR474-3E80M/4C** **DR474-2E80M/4B**	1,34 1,45	121 120	118	IE3 IE2
	3,9 4,3 5,3	1275 1129 921	**242,68** **215,03** **174,97**	20103 21494 23231	1,2 1,4 1,7	**DR473-3E80M/6C** **DR473-2E80M/6B**	1,47 1,50	113 112	116	IE3 IE2
	6,0 6,7 8,3 10	823 729 595 471	**242,68** **215,03** **174,97** **138,35**	23953 24603 25426 26158	1,9 2,1 2,6 3,3	**DR473-3E80M/4C** **DR473-2E80M/4B**	1,34 1,45	112 111	116	IE3 IE2
	4,7	1001	**309,82**	8517	0,8	**DR375-3E80M/4C** **DR375-2E80M/4B**	1,34 1,45	85 84	114	IE3 IE2
	5,4 6,2 7,7	901 793 639	**171,89** **151,15** **121,67**	10607 12370 14372	0,9 1,0 1,3	**DR373-3E80M/6C** **DR373-2E80M/6B**	1,47 1,50	77 76	112	IE3 IE2
	8,4 9,6 12 14 15 18 21	582 512 413 362 321 270 230	**171,89** **151,15** **121,67** **106,69** **94,32** **79,34** **67,45**	14998 15698 16592 17001 17295 17664 17940	1,4 1,6 2,0 2,3 2,6 3,0 3,6	**DR373-3E80M/4C** **DR373-2E80M/4B**	1,34 1,45	76 75	112	IE3 IE2
	6,9 7,8 8,3 9,7	712 627 590 505	**135,52** **119,16** **112,15** **95,92**	6656 8728 9443 10864	0,8 1,0 1,0 1,2	**DR283-3E80M/6C** **DR283-2E80M/6B**	1,47 1,50	74 73	108	IE3 IE2
	11 12 13 15 17 19 23 27	460 405 381 326 286 253 213 182	**135,52** **119,16** **112,15** **95,92** **84,12** **74,36** **62,55** **53,18**	11506 12212 12492 13098 13498 13807 14139 14404	1,3 1,5 1,6 1,8 2,1 2,4 2,8 3,3	**DR283-3E80M/4C** **DR283-2E80M/4B**	1,34 1,45	38 37	108	IE3 IE2
	10 12 13 15 17 19 24 28	467 408 383 326 283 248 206 172	**137,94** **120,49** **113,02** **96,09** **83,46** **73,03** **60,39** **50,36**	11699 12560 12896 13595 14060 14415 14793 15088	1,0 1,1 1,2 1,4 1,6 1,8 2,2 2,6	**DR273-3E80M/4C** **DR273-2E80M/4B**	1,34 1,45	32 31	104	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,55 0,75	34 39 47	144 124 104	**42,22** **36,38** **30,34**	15312 15466 15864	3,1 3,6 4,0	**DR273-3E80M/4C** **DR273-2E80M/4B**	1,34 1,45	32 31	104	IE3 IE2
	56	89	**25,78**	16303	4,0	**DR272-3E80M/4C** **DR272-2E80M/4B**	1,34 1,45	29 28	104	IE3 IE2
	20 24 28 30 32 38 46 53	244 204 176 163 152 129 107 93	**72,04** **60,16** **51,88** **47,81** **44,66** **37,75** **31,52** **27,18**	4406 5414 5961 6193 6378 6721 7010 7182	0,8 1,0 1,1 1,2 1,3 1,6 1,9 2,2	**DR173-3E80M/4C** **DR173-2E80M/4B**	1,34 1,45	26 25	102	IE3 IE2
	67 76 81 96 110	75 66 62 53 46	**21,79** **19,04** **17,86** **15,18** **13,19**	6944 6702 6588 6302 6058	2,7 3,0 3,2 3,8 4,0	**DR172-3E80M/4C** **DR172-2E80M/4B**	1,34 1,45	23 22	102	IE3 IE2
	28 33 38 41	179 152 130 121	**52.62** **44.60** **38.18** **35.43**	2417 2427 2414 2402	0.8 1.0 1.2 1.2	**DR073-3E80M/4C** **DR073-2E80M/4B**	1,34 1,45	17 16	100	IE3 IE2
	39 47 52 58 69 80 91 97 115 138 166 177 210 251	127 106 96 86 73 63 55 52 44 37 30 28 24 20	**36,86** **30,71** **27,64** **25,01** **21,12** **18,09** **15,97** **14,92** **12,61** **10,53** **8,76** **8,18** **6,91** **5,77**	2409 2369 2339 2306 2242 2178 2123 2092 2014 1929 1821 1790 1714 1633	1,2 1,4 1,6 1,7 2,1 2,4 2,7 2,9 3,4 4,0 4,0 4,0 4,0 4,0	**DR072-3E80M/4C** **DR072-2E80M/4B**	1,34 1,45	16 15	100	IE3 IE2
	269 323 346 409 490	19 16 15 12 10	**10.53** **8.76** **8.18** **6.91** **5.77**	1615 1522 1493 1422 1349	4.0 4.0 4.0 4.0 4.0	**DR072-3E71M/2C** **DR072-2E71M/2B**	1,19 1,25	17 16	100	IE3 IE2
0,75 1,0	0,32 0,39 0,47 0,50	19768 15913 13324 12597	**4589,41** **3686,99** **3079,47** **2909,37**	195316 206283 212951 214691	0,9 1,1 1,4 1,4	**DR976-3E80M/4D** **DR976-2E80M/4C**	1,77 1,89	805 803	150	IE3 IE2
	0,70 0,78 0,91 1,0 1,2 1,3	9186 8253 7031 6203 5507 4914	**2079,97** **1867,46** **1591,90** **1403,36** **1244,98** **1110,06**	222154 224002 226303 227786 228987 229979	2,0 2,2 2,6 2,9 3,3 3,7	**DR975-3E80M/4D** **DR975-2E80M/4C**	1,77 1,89	793 791	150	IE3 IE2

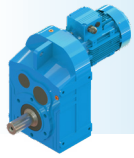
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,75 1,0	0,43	14654	**3405,63**	66595	0,9	**DR876-3E80M/4D** **DR876-2E80M/4C**	1,77 1,89	521 519	144	IE3 IE2
	0,48 0,54 0,62 0,71 0,80 0,89 1,0 1,2 1,4 1,6 1,7	13146 11804 10348 9018 7982 7144 6284 5262 4633 4113 3675	**2990,66** **2683,53** **2356,74** **2051,67** **1813,10** **1622,25** **1424,58** **1189,85** **1046,63** **928,31** **828,93**	75941 82989 89644 94998 98730 101421 104147 107152 108879 110242 111344	1,0 1,1 1,3 1,4 1,6 1,8 2,1 2,5 2,8 3,2 3,5	**DR875-3E80M/4D** **DR875-2E80M/4C**	1,77 1,89	511 509	144	IE3 IE2
	0,64 0,73 0,88 0,96 1,1 1,3	9917 8724 7303 6639 5840 4890	**2257,90** **1982,78** **1656,07** **1507,38** **1323,71** **1105,59**	38132 49865 60205 64203 68487 72910	0,8 0,9 1,1 1,2 1,4 1,6	**DR775-3E80M/4D** **DR775-2E80M/4C**	1,77 1,89	311 309	138	IE3 IE2
	1,5 1,7 1,9	4401 3941 3404	**632,92** **566,21** **489,64**	74126 76103 78248	1,7 1,9 2,2	**DR774-3E90S/6B** **DR774-2E90S/6A**	1,96 2,00	305 303	136	IE3 IE2
	2,3 2,6 3,0	2868 2569 2218	**632,92** **566,21** **489,64**	80719 81717 82832	2,8 3,1 3,6	**DR774-3E80M/4D** **DR774-2E80M/4C**	1,77 1,89	301 299	136	IE3 IE2
	1,4 1,6 1,8	4683 4177 3553	**675,51** **601,90** **512,73**	24804 30824 36327	0,9 1,0 1,2	**DR674-3E90S/6B** **DR674-2E90S/6A**	1,96 2,00	227 225	130	IE3 IE2
	2,1 2,4 2,8 3,4 4,0 4,6 5,2	3052 2722 2316 1921 1645 1445 1279	**675,51** **601,90** **512,73** **424,33** **362,91** **318,25** **281,35**	40007 42135 44462 46477 47806 48705 49415	1,4 1,6 1,9 2,2 2,6 3,0 3,4	**DR674-3E80M/4D** **DR674-2E80M/4C**	1,77 1,89	226 224	130	IE3 IE2
	1,9	3468	**499,72**	13905	0,9	**DR574-3E90S/6B** **DR574-2E90S/6A**	1,96	167 165	124	IE3 IE2
	2,0 2,4 2,9	3256 2755 2260	**720,91** **609,29** **499,72**	18226 25206 30126	0,9 1,1 1,3	**DR574-3E80M/4D** **DR574-2E80M/4C**	1,77 1,89	165 163	124	IE3 IE2
	3,7 4,5 4,9	1810 1487 1365	**255,83** **209,81** **192,62**	33689 35805 36560	1,7 2,0 2,2	**DR573-3E90S/6B** **DR573-2E90S/6A**	1,96 2,00	161 159	122	IE3 IE2
	5,7 6,9 7,5	1184 973 893	**255,83** **209,81** **192,62**	37604 38745 39153	2,5 3,1 3,4	**DR573-3E80M/4D** **DR573-2E80M/4C**	1,77 1,89	157 155	122	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,75 1,0	3,9 4,4 5,4	1719 1523 1241	**242,68** **215,03** **174,97**	14462 17279 20440	0,9 1,0 1,2	**DR473-3E90S/6B** **DR473-2E90S/6A**	1,96 2,00	118 116	116	IE3 IE2
	6,0 6,7 8,3 9,4 10 12 14 15	1124 996 812 718 643 565 473 447	**242,68** **215,03** **174,97** **154,63** **138,35** **121,49** **101,48** **95,87**	21541 22636 23993 24643 25137 25618 26156 26301	1,4 1,6 1,9 2,2 2,4 2,7 3,3 3,5	**DR473-3E80M/4D** **DR473-2E80M/4C**	1,77 1,89	114 112	116	IE3 IE2
	7,8	861	**121,67**	11337	1,0	**DR373-3E90S/6B** **DR373-2E90S/6A**	1,96 2,00	80 78	112	IE3 IE2
	8,4 9,6 12 14 15 18 21 25 28	795 700 564 495 438 369 314 269 244	**171,89** **151,15** **121,67** **106,69** **94,32** **79,34** **67,45** **57,79** **52,30**	12348 13643 15190 15858 16351 16930 17353 17676 17851	1,0 1,2 1,5 1,7 1,9 2,2 2,6 3,0 3,4	**DR373-3E80M/4D** **DR373-2E80M/4C**	1,77 1,89	76 74	112	IE3 IE2
	11 12 13 15 17 19 23 27 32 35	628 553 521 445 391 346 291 248 213 193	**135,52** **119,16** **112,15** **95,92** **84,12** **74,36** **62,55** **53,18** **45,56** **41,23**	8696 10102 10623 11700 12378 12886 13428 13839 14151 14319	1,0 1,1 1,2 1,3 1,5 1,7 2,1 2,4 2,8 3,1	**DR283-3E80M/4D** **DR283-2E80M/4C**	1,77 1,89	38 36	108	IE3 IE2
	12 15 17 19 24 28 34 39 47	523 445 387 339 281 234 197 170 142	**113,02** **96,09** **83,46** **73,03** **60,39** **50,36** **42,22** **36,38** **30,34**	10747 12036 12847 13443 14068 14532 14878 15110 15335	0,9 1,0 1,2 1,3 1,6 1,9 2,3 2,7 3,2	**DR273-3E80M/4D** **DR273-2E80M/4C**	1,77 1,89	31 29	104	IE3 IE2
	56 64 68 79	122 107 101 86	**25,78** **22,67** **21,33** **18,25**	15487 15748 15954 16375	3,7 4,0 4,0 4,0	**DR272-3E80M/4D** **DR272-2E80M/4C**	1,77 1,89	29 27	104	IE3 IE2
	32 38 46 53	208 176 147 127	**44,66** **37,75** **31,52** **27,18**	5325 5978 6460 6752	1,0 1,1 1,4 1,6	**DR173-3E80M/4D** **DR173-2E80M/4C**	1,77 1,89	27 25	102	IE3 IE2

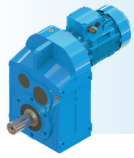
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
0,75 1,0	67 76 81 96 110 126 152	103 90 85 72 63 55 45	**21,79** **19,04** **17,86** **15,18** **13,19** **11,54** **9,54**	6659 6454 6356 6106 5889 5685 5398	1,9 2,2 2,4 2,8 3,2 3,7 4,0	**DR172-3E80M/4D** **DR172-2E80M/4C**	1,77 1,89	25 23	102	IE3 IE2
	33 38 41	207 178 165	**44.60** **38.18** **35.43**	1982 2041 2059	0.7 0.8 0.9	**DR073-3E80M/4D** **DR073-2E80M/4C**	1,77 1,89	18 17	100	IE3 IE2
	39 47 52 58 69 80 91 97 115 138 166 177 210 251	173 145 130 118 100 86 76 71 60 50 42 39 33 27	**36.86** **30.71** **27.64** **25.01** **21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	2050 2077 2078 2072 2048 2014 1979 1959 1903 1837 1736 1711 1648 1578	0.9 1.0 1.1 1.3 1.5 1.8 2.0 2.1 2.5 3.0 3.6 3.9 4.0 4.0	**DR072-3E80M/4D** **DR072-2E80M/4C**	1,77 1,89	16 15	100	IE3 IE2
	273 329 352 417 499	25 21 19 16 14	**10.53** **8.76** **8.18** **6.91** **5.77**	1562 1474 1447 1383 1315	4.0 4.0 4.0 4.0 4.0	**DR072-3E80M/2B** **DR072-2E80M/2A**	1,59 1,67	17 16	100	IE3 IE2
1,1 1,5	0,50	18476	**2909,37**	199202	1,0	**DR976-3E90S/4C** **DR976-2E90S/4B**	2,46 2,60	798 796	150	IE3 IE2
	0,70 0,78 0,91 1,0 1,2 1,3 1,5	13473 12105 10312 9098 8077 7207 6106	**2079,97** **1867,46** **1591,90** **1403,36** **1244,98** **1110,06** **938,19**	212586 215840 219817 222332 224341 225980 227956	1,3 1,5 1,7 2,0 2,2 2,5 2,9	**DR975-3E90S/4C** **DR975-2E90S/4B**	2,46 2,60	798 796	150	IE3 IE2
	0,62 0,71 0,80 0,89 1,0 1,2 1,4 1,6 1,7 1,9	15177 13226 11707 10478 9217 7717 6795 6032 5391 4844	**2356,74** **2051,67** **1813,10** **1622,25** **1424,58** **1189,85** **1046,63** **928,31** **828,93** **744,27**	62792 75488 83461 89087 94234 99676 102551 104912 106787 108310	0,9 1,0 1,1 1,2 1,4 1,7 1,9 2,2 2,4 2,7	**DR875-3E90S/4C** **DR875-2E90S/4B**	2,46 2,60	516 514	144	IE3 IE2
	0,96 1,1 1,3	9737 8566 7172	**1507,38** **1323,71** **1105,59**	40181 51201 61029	0,8 0,9 1,1	**DR775-3E90S/4C** **DR775-2E90S/4B**	2,46 2,60	316 314	138	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
1,1 1,5	1,5 1,7 1,9	6489 5811 5019	**632,92** **566,21** **489,64**	65039 68629 72400	1,2 1,4 1,6	**DR774-3E90L/6C** **DR774-2E90L/6B**	2,75 2,90	304 301	136	IE3 IE2
	2,3 2,6 3,0 3,3 3,8 4,5	4207 3767 3254 2912 2562 2145	**632,92** **566,21** **489,64** **438,10** **384,72** **321,33**	75738 77474 79376 80570 81739 83060	1,9 2,1 2,5 2,7 3,1 3,7	**DR774-3E90S/4C** **DR774-2E90S/4B**	2,46 2,60	306 304	136	IE3 IE2
	2,1 2,4 2,8 3,4 4,0 4,6 5,2 6,1	4476 3992 3396 2818 2412 2119 1877 1582	**675,51** **601,90** **512,73** **424,33** **362,91** **318,25** **281,35** **236,65**	27375 32594 37544 41537 43892 45466 46699 48093	1,0 1,1 1,3 1,5 1,8 2,0 2,3 2,7	**DR674-3E90S/4C** **DR674-3E90S/4B**	2,46 2,60	331 329	130	IE3 IE2
	2,9	3315	**499,72**	17181	0,9	**DR574-3E90S/4C** **DR574-2E90S/4B**	2,46 2,60	167 165	124	IE3 IE2
	3,7 4,5 4,9	2673 2197 2016	**255,83** **209,81** **192,62**	26097 30672 32145	1,1 1,4 1,5	**DR573-3E90L/6C** **DR573-2E90L/6B**	2,75 2,90	162 159	122	IE3 IE2
	5,7 6,9 7,5 8,6 9,7 12	1737 1428 1310 1149 1017 861	**255,83** **209,81** **192,62** **168,60** **149,15** **126,06**	34201 36162 36873 37801 38512 39313	1,7 2,1 2,3 2,6 2,9 3,5	**DR573-3E90S/4C** **DR573-2E90S/4B**	2,46 2,60	162 160	122	IE3 IE2
	5,4	1833	**174,97**	12410	0,8	**DR473-3E90L/6C** **DR473-2E90L/6B**	2,75 2,90	118 115	116	IE3 IE2
	6,0 6,7 8,3 9,4 10 12 14 15	1650 1462 1192 1054 943 829 694 656	**242,68** **215,03** **174,97** **154,63** **138,35** **121,49** **101,48** **95,87**	15508 18039 20919 22151 23015 23909 24807 25054	0,9 1,1 1,3 1,5 1,6 1,9 2,2 2,4	**DR473-3E90S/4C** **DR473-2E90S/4B**	2,46 2,60	119 117	116	IE3 IE2
	19 21	531 475	**154,63** **138,35**	25810 26408	2,9 3,2	**DR473-3E80M/2C** **DR473-2E80M/2B**	2,26 2,36	114 112	116	IE3 IE2
	10 12 14 15 18 21 25 28	1027 827 726 643 541 461 395 358	**151,15** **121,67** **106,69** **94,32** **79,34** **67,45** **57,79** **52,30**	7865 11884 13303 14330 15416 16176 16714 17016	0,8 1,0 1,1 1,3 1,5 1,8 2,1 2,3	**DR373-3E90S/4C** **DR373-2E90S/4B**	2,46 2,60	81 79	112	IE3 IE2

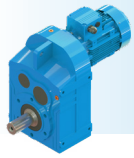
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
1,1 1,5	35 41 45	284 244 221	**41,42** **35,49** **32,11**	17814 18333 18617	2,8 3,1 3,3	**DR373-3E90S/4C** **DR373-2E90S/4B**	2,46 2,60	81 79	112	IE3 IE2
	13 15 17 19 23 27 32 35	764 654 574 508 428 364 312 283	**112,15** **95,92** **84,12** **74,36** **62,55** **53,18** **45,56** **41,23**	4872 8124 9765 10819 11927 12672 13217 13511	0,8 0,9 1,0 1,2 1,4 1,6 1,9 2,1	**DR283-3E90S/4C** **DR283-2E90S/4B**	2,46 2,60	43 41	108	IE3 IE2
	49 58	207 172	**29,85** **24,79**	14199 14484	2,9 3,5	**DR282-3E90S/4C** **DR282-2E90S/4B**	2,46 2,60	40 38	108	IE3 IE2
	17 19 24 28 34 39 47	568 498 412 344 289 249 208	**83,46** **73,03** **60,39** **50,36** **42,22** **36,38** **30,34**	9899 11201 12511 13374 13983 14391 14778	0,8 0,9 1,1 1,3 1,6 1,8 2,2	**DR273-3E90S/4C** **DR273-2E90S/4B**	2,46 2,60	36 34	104	IE3 IE2
	56 64 68 79 90 102 121	179 157 148 127 111 98 83	**25,78** **22,67** **21,33** **18,25** **16,00** **14,14** **11,90**	15033 15210 15284 15450 15586 15069 14365	2,5 2,9 3,0 3,6 4,0 4,0 4,0	**DR272-3E90S/4C** **DR272-2E90S/4B**	2,46 2,60	34 32	104	IE3 IE2
	46 53	215 186	**31,52** **27,18**	5167 5772	0,9 1,1	**DR173-3E90S/4C** **DR173-2E90S/4B**	2,46 2,60	32 30	102	IE3 IE2
	67 76 81 96 110 126 152 187 216 247 298	151 132 124 106 92 80 67 54 47 41 34	**21,79** **19,04** **17,86** **15,18** **13,19** **11,54** **9,54** **7,74** **6,72** **5,88** **4,86**	6143 6008 5939 5755 5587 5422 5182 4858 4688 4527 4300	1,3 1,5 1,6 1,9 2,2 2,5 3,0 3,3 3,6 3,9 4,0	**DR172-3E90S/4C** **DR172-2E90S/4B**	2,46 2,60	29 27	102	IE3 IE2
	58 69 80 91 97 115 138 166 177 210 251	173 146 126 111 104 88 73 61 57 48 40	**25.01** **21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	1638 1689 1712 1716 1715 1699 1670 1582 1568 1529 1480	0.9 1.0 1.2 1.4 1.4 1.7 2.0 2.5 2.6 3.1 3.7	**DR072-3E90S/4C** **DR072-2E90S/4B**	2,46 2,60	25 24	100	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
1,1 1,5	273 329 352 417 499	37 31 29 24 20	**10.53** **8.76** **8.18** **6.91** **5.77**	1481 1400 1378 1325 1267	4.0 4.0 4.0 4.0 4.0	**DR072-3E80M/2C** **DR072-2E80M/2B**	2,26 2,36	26 25	100	IE3 IE2
1,5 2,0	0,70 0,78 0,91 1,0 1,2 1,3 1,5	18372 16506 14061 12406 11014 9827 8326	**2079,97** **1867,46** **1591,90** **1403,36** **1244,98** **1110,06** **938,19**	199607 204963 211126 215140 218297 220838 223860	1,0 1,1 1,3 1,5 1,6 1,8 2,2	**DR975-3E90L/4D** **DR975-2E90L/4C**	3,30 3,40	800 799	150	IE3 IE2
	1,8 2,3 2,6	7228 5744 5144	**523,19** **415,16** **371,15**	225963 228600 229612	2,5 3,1 3,5	**DR974-3E100L/6B** **DR974-2E100L/6A**	3,50 3,72	797 794	148	IE3 IE2
	0,80 0,89 1,0 1,2 1,4	15964 14288 12569 10523 9266	**1813,10** **1622,25** **1424,58** **1189,85** **1046,63**	56766 69092 79094 88889 94046	0,8 0,9 1,0 1,2 1,4	**DR875-3E90L/4D** **DR875-2E90L/4C**	3,30 3,40	518 517	144	IE3 IE2
	1,6 1,8 2,0 2,3 2,9 3,3 3,7	8363 7411 6657 5639 4630 4061 3593	**607,27** **537,22** **482,05** **407,42** **334,15** **293,46** **259,15**	97254 100572 103075 106098 108908 110391 111563	1,6 1,8 2,0 2,3 2,8 3,2 3,6	**DR874-3E100L/6B** **DR874-2E100L/6A**	3,50 3,72	515 512	142	IE3 IE2
	1,5 1,7 2,0	8710 7800 6736	**632,92** **566,21** **489,64**	50148 56906 63642	0,9 1,0 1,2	**DR774-3E100L/6B** **DR774-2E100L/6A**	3,50 3,72	314 311	136	IE3 IE2
	2,3 2,6 3,0 3,3 3,8	5737 5137 4437 3971 3493	**632,92** **566,21** **489,64** **438,10** **384,72**	69006 71865 74917 76683 78505	1,4 1,6 1,8 2,0 2,3	**DR774-3E90L/4D** **DR774-2E90L/4C**	3,30 3,40	305 304	136	IE3 IE2
	4,3 5,0 6,0	3124 2678 2228	**222,16** **190,20** **158,23**	79856 81373 82813	2,6 3,0 3,6	**DR773-3E100L/6B** **DR773-2E100L/6A**	3,50 3,72	294 291	134	IE3 IE2
	2,8 3,4 4,0	4631 3843 3289	**512,73** **424,33** **362,91**	25407 33994 38339	0,9 1,1 1,3	**DR674-3E90L/4D** **DR674-2E90L/4C**	3,30 3,40	233 232	130	IE3 IE2
	4,3 4,8 5,7 6,8 7,7 7,7	3111 2771 2365 1969 1756 1756	**221,47** **197,01** **167,96** **139,76** **124,53** **124,53**	39600 41834 44147 46253 47295 47295	1,4 1,6 1,8 2,2 2,4 2,4	**DR673-3E100L/6B** **DR673-2E100L/6A**	3,50 3,72	232 231	128	IE3 IE2

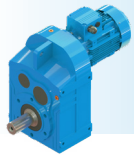
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
1,5 2,0	4,6	2948	**209,81**	22865	1,0	**DR573-3E100L/6B** **DR573-2E100L/6A**	3,50 3,72	171 168	122	IE3 IE2
	5,7 6,9 7,5 8,6 9,7 12	2371 1949 1789 1568 1389 1175	**255,83** **209,81** **192,62** **168,60** **149,15** **126,06**	29124 32665 33841 35330 36403 37652	1,3 1,5 1,7 1,9 2,2 2,6	**DR573-3E90L/4D** **DR573-2E90L/4C**	3,30 3,40	163 162	122	IE3 IE2
	14 15	973 893	**209,81** **192,62**	38746 39154	3,1 3,4	**DR573-3E90S/2B** **DR573-2E90S/2A**	2,97 3,19	161 159	122	IE3 IE2
	6,7 8,3 9,4 10 12 14 15	1995 1627 1439 1288 1132 947 895	**215,03** **174,97** **154,63** **138,35** **121,49** **101,48** **95,87**	8539 15860 18308 19974 21470 22984 23411	0,8 1,0 1,1 1,2 1,4 1,6 1,7	**DR473-3E90L/4D** **DR473-2E90L/4C**	3,30 3,40	119 118	116	IE3 IE2
	19 21 24	718 643 565	**154,63** **138,35** **121,49**	24649 25448 26250	2,2 2,3 2,5	**DR473-3E90S/2B** **DR473-2E90S/2A**	2,97 3,19	117 115	116	IE3 IE2
	14 15 18 21 25 28 35 41 45	991 877 739 629 540 489 388 333 301	**106,69** **94,32** **79,34** **67,45** **57,79** **52,30** **41,42** **35,49** **32,11**	8750 11036 13135 14486 15433 15922 17054 17753 18127	0,8 0,9 1,1 1,3 1,5 1,7 2,0 2,2 2,4	**DR373-3E90L/4D** **DR373-2E90L/4C**	3,30 3,40	83 82	112	IE3 IE2
	57 65	241 213	**25,42** **22,46**	17870 18054	3,4 3,8	**DR372-3E90L/4D** **DR372-2E90L/4C**	3,30 3,40	77 76	112	IE3 IE2
	19 23 27 32 35	693 584 497 426 386	**74,36** **62,55** **53,18** **45,56** **41,23**	7173 9579 10980 11945 12434	0,9 1,0 1,2 1,4 1,6	**DR283-3E90L/4D** **DR283-2E90L/4C**	3,30 3,40	45 44	108	IE3 IE2
	49 58 68 77	283 235 202 178	**29,85** **24,79** **21,28** **18,73**	13513 13955 14243 14519	2,1 2,6 3,0 3,3	**DR282-3E90L/4D** **DR282-2E90L/4C**	3,30 3,40	42 41	108	IE3 IE2
	24 28 34 39 47	562 470 394 340 284	**60,39** **50,36** **42,22** **36,38** **30,34**	10018 11658 12752 13428 14035	0,8 1,0 1,1 1,3 1,6	**DR273-3E90L/4D** **DR273-2E90L/4C**	3,30 3,40	38 37	104	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
1,5 2,0	56 64 68 79 90 102 121 143	244 215 202 173 152 134 113 96	**25,78** **22,67** **21,33** **18,25** **16,00** **14,14** **11,90** **10,11**	14440 14715 14829 15081 15254 14870 14198 13587	1,8 2,1 2,2 2,6 3,0 3,3 4,0 4,0	**DR272-3E90L/4D** **DR272-2E90L/4C**	3,30 3,40	36 35	104	IE3 IE2
	67 76 81 96 110 126 152 187 216 247 298	207 181 169 144 125 110 91 74 64 56 46	**21,79** **19,04** **17,86** **15,18** **13,19** **11,54** **9,54** **7,74** **6,72** **5,88** **4,86**	5372 5477 5444 5340 5230 5113 4929 4631 4492 4357 4161	1,0 1,1 1,2 1,4 1,6 1,8 2,2 2,4 2,7 2,9 3,1	**DR172-3E90L/4D** **DR172-2E90L/4C**	3,30 3,40	31 30	102	IE3 IE2
	69 80 91 97 115 138 166 177 210 251	200 172 152 142 120 100 83 78 66 55	**21.12** **18.09** **15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	1248 1343 1397 1419 1455 1469 1398 1397 1386 1363	0.8 0.9 1.0 1.1 1.3 1.5 1.8 1.9 2.3 2.7	**DR072-3E90L/4D** **DR072-2E90L/4C**	3,30 3,40	26 25	100	IE3 IE2
	275 331 355 419 502	50 42 39 33 27	**10.53** **8.76** **8.18** **6.91** **5.77**	1385 1311 1296 1256 1210	3.0 3.6 3.9 4.0 4.0	**DR072-3E90S/2B** **DR072-2E90S/2A**	2,97 3,19	27 26	100	IE3 IE2
2,2 3,0	0,91 1,0 1,2 1,3 1,5 1,7	20623 18196 16154 14413 12211 11244	**1591,90** **1403,36** **1244,98** **1110,06** **938,19** **864,41**	192317 200150 205776 210362 215691 217874	0,9 1,0 1,1 1,2 1,5 1,6	**DR975-3E100L/4C** **DR975-2E100L/4B**	4,65 4,85	805 803	150	IE3 IE2
	1,8 2,3 2,6	10492 8338 7467	**523,19** **415,16** **371,15**	219470 223866 225522	1,7 2,2 2,4	**DR974-3E112M/6B** **DR974-2E112M/6A**	4,95 5,32	801 798	148	IE3 IE2
	2,8 3,5 3,9	6982 5549 4969	**523,19** **415,16** **371,15**	226435 228949 229915	2,6 3,2 3,6	**DR974-3E100L/4C** **DR974-2E100L/4B**	4,65 4,85	799 797	148	IE3 IE2
	1,2 1,4	15434 13590	**1189,85** **1046,63**	61236 73373	0,8 1,0	**DR875-3E100L/4C** **DR875-2E100L/4B**	4,65 4,85	825 823	144	IE3 IE2
	1,6 1,8	12139 10757	**607,27** **537,22**	81321 87867	1,1 1,2	**DR874-3E112M/6B** **DR874-2E112M/6A**	4,95 5,32	521 518	142	IE3 IE2

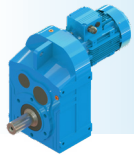
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
2,2 3,0	2,0 2,4	9662 8184	**482,05** **407,42**	92483 97896	1,3 1,6	**DR874-3E112M/6B** **DR874-2E112M/6A**	4,95 5,32	521 518	142	IE3 IE2
	2,4 2,7 3,0 3,6 4,3 4,9 5,6	8079 7159 6430 5447 4472 3923 3470	**607,27** **537,22** **482,05** **407,42** **334,15** **293,46** **259,15**	98328 101567 103767 106680 109347 110787 111876	1,6 1,8 2,0 2,4 2,9 3,3 3,7	**DR874-3E100L/4C** **DR874-2E100L/4B**	4,65 4,85	520 518	142	IE3 IE2
	2,3 2,6 3,0 3,3 3,8	8414 7535 6507 5824 5124	**632,92** **566,21** **489,64** **438,10** **384,72**	52382 58704 64817 68465 71927	1,0 1,1 1,2 1,4 1,6	**DR774-3E100L/4C** **DR774-2E100L/4B**	4,65 4,85	312 310	136	IE3 IE2
	4,3 5,1 6,1	4540 3892 3239	**222,16** **190,20** **158,23**	74383 77017 79451	1,8 2,1 2,5	**DR773-3E112M/6B** **DR773-2E112M/6A**	4,95 5,32	298 295	1334	IE3 IE2
	6,5 7,6 9,2	3030 2598 2162	**222,16** **190,20** **158,23**	80200 81650 83029	2,6 3,1 3,7	**DR773-3E100L/4C** **DR773-2E100L/4B**	4,65 4,85	298 296	134	IE3 IE2
	4,4 4,9 5,7	4522 4027 3438	**221,47** **197,01** **167,96**	26935 32204 37227	1,0 1,1 1,3	**DR673-3E112M/6B** **DR673-2E112M/6A**	4,95 5,32	236 233	128	IE3 IE2
	6,5 7,4 8,6 10 12	3018 2688 2295 1910 1704	**221,47** **197,01** **167,96** **139,76** **124,53**	40162 42343 44618 46564 47556	1,4 1,6 1,9 2,3 2,5	**DR673-3E100L/4C** **DR673-2E100L/4B**	4,65 4,85	236 234	128	IE3 IE2
	5,7 6,5	3446 3052	**168,60** **149,15**	14530 21427	0,9 1,0	**DR573-3E112M/6B** **DR573-2E112M/6A**	4,95 5,32	175 172	122	IE3 IE2
	6,9 7,5 8,6 9,7 12 14 16 18 21 24	2859 2625 2300 2038 1725 1415 1251 1113 943 841	**209,81** **192,62** **168,60** **149,15** **126,06** **103,39** **91,30** **81,15** **68,64** **61,12**	23940 26616 29696 31920 34288 36314 37243 38016 38915 39427	1,0 1,1 1,3 1,5 1,7 2,1 2,4 2,7 3,2 3,6	**DR573-3E100L/4C** **DR573-2E100L/4B**	4,65 4,85	175 173	122	IE3 IE2
	10 12 14 15 18 21 23 27	1889 1661 1390 1314 1110 969 850 747	**138,35** **121,49** **101,48** **95,87** **81,00** **70,59** **61,85** **54,35**	11205 15352 18876 19655 21633 23211 24515 25371	0,8 0,9 1,1 1,2 1,4 1,5 1,7 1,9	**DR473-3E100L/4C** **DR473-2E100L/4B**	4,65 4,85	124 122	116	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
2,2 3,0	31 35 42	652 572 473	**47,37** **41,50** **34,28**	26277 27013 27850	2,1 2,3 2,6	**DR473-3E100L/4C** **DR473-2E100L/4B**	4,65 4,85	124 122	116	IE3 IE2
	21 25 28 35 41 45 53	923 792 717 569 488 442 379	**67,45** **57,79** **52,30** **41,42** **35,49** **32,11** **27,53**	10194 12393 13389 15466 16597 17144 17886	0,9 1,0 1,1 1,4 1,5 1,6 1,8	**DR373-3E100L/4C** **DR373-2E100L/4B**	4,65 4,85	88 86	112	IE3 IE2
	57 65 72 82	354 313 280 246	**25,42** **22,46** **20,10** **17,65**	17057 17367 17606 17841	2,3 2,6 2,9 3,3	**DR372-3E100L/4C** **DR372-2E100L/4B**	4,65 4,85	82 80	112	IE3 IE2
	27 32 35 41 48	729 626 567 486 417	**53,18** **45,56** **41,23** **35,35** **30,28**	6107 8745 9864 11121 12173	0,8 1,0 1,1 1,2 1,4	**DR283-3E100L/4C** **DR283-2E100L/4B**	4,65 4,85	50 48	108	IE3 IE2
	58 68 77 87 103 121 140 153 177	345 296 261 232 196 168 145 132 115	**24,79** **21,28** **18,73** **16,62** **14,06** **12,03** **10,38** **9,45** **8,19**	12895 13389 13820 14290 14870 15297 15617 15800 15645	1,7 2,0 2,3 2,4 2,7 2,9 3,2 3,3 3,6	**DR282-3E100L/4C** **DR282-2E100L/4B**	4,65 4,85	47 45	108	IE3 IE2
	34 39 47 57	578 499 417 350	**42,22** **36,38** **30,34** **25,44**	9662 11181 12427 13425	0,8 0,9 1,1 1,3	**DR273-3E100L/4C** **DR273-2E100L/4B**	4,65 4,85	43 41	104	IE3 IE2
	64 68 79 90 102 121 143 167 212 249 291	315 297 254 223 197 166 141 121 96 82 70	**22,67** **21,33** **18,25** **16,00** **14,14** **11,90** **10,11** **8,67** **6,84** **5,82** **4,98**	13703 13906 14351 14648 14519 13904 13337 12809 **11975** **11465** 10993	1,4 1,5 1,8 2,0 2,3 2,7 3,0 3,3 3,3 3,6 3,9	**DR272-3E100L/4C** **DR272-2E100L/4B**	4,65 4,85	41 39	104	IE3 IE2
	81 96 110 126 152 187 216 247 298	249 212 184 161 133 108 94 82 68	**17,86** **15,18** **13,19** **11,54** **9,54** **7,74** **6,72** **5,88** **4,86**	4278 4576 4576 4548 4470 4218 4138 4050 3911	0,8 0,9 1,1 1,2 1,5 1,7 1,8 1,9 2,1	**DR172-3E100L/4C** **DR172-2E100L/4B**	4,65 4,85	36 34	102	IE3 IE2

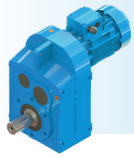
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
2,2 3,0	375 431 493 596	54 47 41 34	**7,74** **6,72** **5,88** **4,86**	3728 3610 3497 3335	2,7 2,9 3,2 3,4	**DR172-3E90L/2C** **DR172-2E90L/2B**	4,25 4,48	29 27	102	IE3 IE2
	91 97 115 138 166 177 210 251	223 208 176 147 122 114 97 81	**15.97** **14.92** **12.61** **10.53** **8.76** **8.18** **6.91** **5.77**	784 855 993 1094 1050 1075 1121 1147	0.7 0.7 0.9 1.0 1.2 1.3 1.6 1.9	**DR072-3E100L/4C** **DR072-2E100L/4B**	4,65 4,85	25 24	100	IE3 IE2
	275 331 355 419 502	74 61 57 48 40	**10.53** **8.76** **8.18** **6.91** **5.77**	1212 1152 1148 1133 1109	2.0 2.5 2.6 3.1 3.7	**DR072-3E90L/2C** **DR072-2E90L/2B**	4,25 4,48	26 25	100	IE3 IE2
3,0 4,0	1,2 1,3 1,5 1,7	22028 19655 16652 15333	**1244,98** **1110,06** **938,19** **864,41**	187523 195673 204401 207981	0,8 0,9 1,1 1,2	**DR975-3E100L/4D** **DR975-2E100L/4C**	6,26 6,42	806 803	150	IE3 IE2
	1,9 2,3 2,6	14233 11311 10130	**523,19** **415,16** **371,15**	210931 217867 220349	1,3 1,6 1,8	**DR974-3E132S/6B** **DR974-2E132S/6A**	6,55 6,85	819 814	148	IE3 IE2
	2,8 3,5 3,9 4,4 5,1	9521 7567 6776 6091 5192	**523,19** **415,16** **371,15** **333,23** **284,06**	221538 225359 226807 228020 229548	1,9 2,4 2,7 3,0 3,5	**DR974-3E100L/4D** **DR974-2E100L/4C**	6,26 6,42	801 798	148	IE3 IE2
	1,6 1,7 1,9	16451 14701 13210	**928,31** **828,93** **744,27**	52631 66292 75580	0,8 0,9 1,0	**DR875-3E100L/4D** **DR875-2E100L/4C**	6,26 6,42	526 523	144	IE3 IE2
	2,4 2,7 3,0 3,6 4,3 4,9 5,6 6,4	11016 9762 8768 7427 6098 5350 4732 4127	**607.27** **537.22** **482.05** **407.42** **334.15** **293.46** **259.15** **225.61**	86527 91940 95901 100563 104776 106956 108655 110243	1,2 1,3 1,5 1,8 2,1 2,4 2,7 3,2	**DR874-3E100L/4D** **DR874-2E100L/4C**	6,26 6,42	516 513	142	IE3 IE2
	2,6 3,0 3,3 3,8	10274 8873 7942 6987	**566,21** **489,64** **438,10** **384,72**	33564 48595 55907 62014	0,8 0,9 1,0 1,1	**DR774-3E100L/4D** **DR774-2E100L/4C**	6,26 6,42	313 310	136	IE3 IE2
	4,4 5,1 6,1	6153 5275 4390	**222,16** **190,20** **158,23**	66852 71217 75104	1,3 1,5 1,8	**DR773-3E132S/6B** **DR773-2E132S/6A**	6,55 6,85	318 313	134	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
3,0 4,0	6,5 7,6 9,2 10	4135 3545 2950 2642	**222,16** **190,20** **158,23** **141,55**	76089 78360 80474 81498	1,9 2,3 2,7 3,0	**DR773-3E100L/4D** **DR773-2E100L/4C**	6,26 6,42	319 316	134	IE3 IE2
	5,8	4660	**167,96**	25164	0,9	**DR673-3E132S/6B** **DR673-2E132S/6A**	6,55 6,85	254 249	128	IE3 IE2
	6,5 7,4 8,6 10 12	4118 3668 3131 2607 2325	**221,47** **197,01** **167,96** **139,76** **124,53**	31316 35396 39385 42832 44444	1,0 1,2 1,4 1,6 1,8	**DR673-3E100L/4D** **DR673-2E100L/4C**	6,26 6,42	236 233	128	IE3 IE2
	14 16 16 19 22 25	1928 1697 1655 1425 1238 1084	**69,18** **60,82** **59,34** **51,01** **44,27** **38,70**	46507 47615 47810 48832 49622 50245	2,2 2,5 2,6 3,0 3,5 4,0	**DR673-3E132S/6B** **DR673-2E132S/6A**	6,55 6,80	254 249	128	IE3 IE2
	7,5 8,6 9,7 12 14 16 18 21 24 29 33	3581 3139 2780 2353 1931 1708 1519 1287 1147 942 833	**192,62** **168,60** **149,15** **126,06** **103,39** **91,30** **81,15** **68,64** **61,12** **50,13** **44,27**	11083 20186 24889 29214 32746 34348 35651 37037 37830 38922 39467	0,8 1,0 1,1 1,3 1,6 1,8 2,0 2,3 2,6 3,2 3,6	**DR573-3E100L/4D** **DR573-2E100L/4C**	6,26 6,42	176 173	122	IE3 IE2
	14 15 18 21 23 27 31 35 42	1896 1792 1515 1322 1159 1020 890 781 646	**101,48** **95,87** **81,00** **70,59** **61,85** **54,35** **47,37** **41,50** **34,28**	11053 13215 17384 20090 22159 23542 24882 25887 27043	0,8 0,9 1,0 1,1 1,2 1,4 1,5 1,7 1,9	**DR473-3E100L/4D** **DR473-2E100L/4C**	6,26 6,42	124 121	116	IE3 IE2
	59 70	468 396	**24,54** **20,74**	26195 26586	3,3 3,9	**DR472-3E100L/4D** **DR472-2E100L/4C**	6,26 6,42	119 116	116	IE3 IE2
	28 35 41 45 53	978 777 666 604 517	**52,30** **41,42** **35,49** **32,11** **27,53**	9067 13097 14874 15762 16884	0,8 1,0 1,1 1,2 1,3	**DR373-3E100L/4D** **DR373-2E100L/4C**	6,26 6,42	89 86	112	IE3 IE2
	57 65 72 82 98 107	483 427 382 336 281 259	**25,42** **22,46** **20,10** **17,65** **14,74** **13,60**	15976 16456 16831 17195 17599 17753	1,7 1,9 2,1 2,4 2,9 3,2	**DR372-3E100L/4D** **DR372-2E100L/4C**	6,26 6,42	83 80	112	IE3 IE2

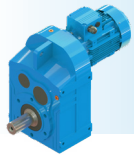
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
3,0 4,0	123	224	**11,77**	17289	3,5	**DR372-3E100L/4D** **DR372-2E100L/4C**	6,26 6,42	83 80	112	IE3 IE2
	41 48	663 568	**35,35** **30,28**	7964 10008	0,9 1,0	**DR283-3E100L/4D** **DR283-2E100L/4C**	6,26 6,42	51 48	108	IE3 IE2
	58 68 77 87 103 121 140 153 177 205 218 253 278 321 370	471 404 356 316 268 230 198 181 156 136 127 110 100 87 75	**24,79** **21,28** **18,73** **16,62** **14,06** **12,03** **10,38** **9,45** **8,19** **7,09** **6,65** **5,74** **5,22** **4,52** **3,92**	11328 12200 12877 13534 14319 14882 15296 15527 15438 14856 14541 13977 13623 13099 12587	1,3 1,5 1,7 1,8 2,0 2,1 2,3 2,4 2,6 2,8 2,7 2,9 3,0 3,2 3,5	**DR282-3E100L/4D** **DR282-2E100L/4C**	6,26 6,42	47 44	108	IE3 IE2
	47 57	568 477	**30,34** **25,44**	9874 11697	0,8 0,9	**DR273-3E100L/4D** **DR273-2E100L/4C**	6,26 6,42	43 40	104	IE3 IE2
	64 68 79 90 102 121 143 167 212 249 291	430 405 347 304 269 227 193 166 131 111 95	**22,67** **21,33** **18,25** **16,00** **14,14** **11,90** **10,11** **8,67** **6,84** **5,82** **4,98**	12231 12585 13341 13837 14112 13563 13049 12563 11762 11284 10839	1,0 1,1 1,3 1,5 1,7 2,0 2,2 2,4 2,4 2,7 2,9	**DR272-3E100L/4D** **DR272-2E100L/4C**	6,26 6,42	41 38	104	IE3 IE2
	336 426 501 584	82 65 55 47	**8,67** **6,84** **5,82** **4,98**	10475 9787 9361 8969	3,9 4,0 4,0 4,0	**DR272-3E100L/2C** **DR272-2E100L/2B**	5,58 5,80	41 38	104	IE3 IE2
	110 126 152 187 216 247 298	251 220 182 148 128 112 93	**13,19** **11,54** **9,54** **7,74** **6,72** **5,88** **4,86**	3782 3865 3919 3720 3712 3683 3613	0,8 0,9 1,1 1,2 1,3 1,4 1,6	**DR172-3E100L/4D** **DR172-2E100L/4C**	6,26 6,42	36 33	102	IE3 IE2
	377 434 496 599	73 64 56 46	**7,74** **6,72** **5,88** **4,86**	3492 3407 3320 3189	2,0 2,1 2,3 2,5	**DR172-3E100L/2C** **DR172-2E100L/2B**	5,58 5,80	38 35	102	IE3 IE2
	138 166 177	201 167 156	**10.53** **8.76** **8.18**	570 552 676	0.7 0.9 1.0	**DR072-3E100L/4D** **DR072-2E100L/4C**	6,26 6,42	33 32	100	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
3,0 4,0	210 251	132 110	**6.91** **5.77**	791 880	1.1 1.4	**DR072-3E100L/4D** **DR072-2E100L/4C**	6,26 6,42	32 31	100	IE3 IE2
	277 333 356 422 505	100 83 78 66 55	**10.53** **8.76** **8.18** **6.91** **5.77**	1005 960 970 985 988	1.5 1.8 1.9 2.3 2.7	**DR072-3E100L/2C** **DR072-2E100L/2B**	5,58 5,80	33 32	100	IE3 IE2
4,0 5,5	1,9 2,3 2,6	18977 15082 13506	**523,19** **415,16** **371,15**	197747 208766 212724	0,9 1,2 1,3	**DR974-3E132M/6C** **DR974-2E132M/6B**	8,52 8,80	823 818	148	IE3 IE2
	2,8 3,5 3,9 4,4 5,1 5,8 6,6 7,4	12608 10020 8973 8065 6875 6069 5390 4811	**523,19** **415,16** **371,15** **333,23** **284,06** **250,41** **222,15** **197,95**	214667 220435 222584 224365 226587 228022 229185 228968	1,4 1,8 2,0 2,2 2,6 3,0 3,3 3,7	**DR974-3E112M/4D** **DR974-2E112M/4C**	8,05 8,20	813 811	148	IE3 IE2
	2,4 2,7 3,0 3,6 4,4 5,0 5,6 6,5	14588 12927 11611 9835 8075 7084 6267 5465	**607,27** **537,22** **482,05** **407,42** **334,15** **293,46** **259,15** **225,61**	67056 77163 83925 91781 98437 101618 104202 106576	0,9 1,0 1,1 1,3 1,6 1,8 2,1 2,4	**DR874-3E112M/4D** **DR874-2E112M/4C**	8,05 8,20	524 522	142	IE3 IE2
	7,6 8,4 9,6 11	4757 4273 3749 3269	**128,20** **115,03** **101,03** **87,95**	108689 109905 111224 112387	2,7 3,0 3,5 4,0	**DR873-3E132M/6C** **DR873-2E132M/6B**	8,52 8,80	527 522	140	IE3 IE2
	4,4 5,1 6,1 11 13	8212 7040 5859 3038 2698	**222,16** **190,20** **158,23** **81,72** **72,50**	53965 61827 68379 80178 81433	1,0 1,1 1,4 2,6 3,0	**DR773-3E132M/6C** **DR773-2E132M/6B**	8,52 8,80	322 317	134	IE3 IE2
	6,6 7,7 9,2 10	5477 4696 3908 3500	**222,16** **190,20** **158,23** **141,55**	70275 73725 76929 78480	1,5 1,7 2,0 2,3	**DR773-3E112M/4D** **DR773-2E112M/4C**	8,05 8,20	308 306	134	IE3 IE2
	7,4 8,7 10 12	4858 4148 3453 3080	**197,01** **167,96** **139,76** **124,53**	22387 31041 37109 39813	0,9 1,0 1,2 1,4	**DR673-3E112M/4D** **DR673-2E112M/4C**	8,05 8,20	237 235	128	IE3 IE2
	14 16 19 22 25	2573 2209 1902 1653 1447	**69,18** **59,34** **51,01** **44,27** **38,70**	43022 45068 46637 47819 48713	1,7 1,9 2,3 2,6 3,0	**DR673-3E132M/6C** **DR673-2E132M/6B**	8,52 8,80	258 253	128	IE3 IE2

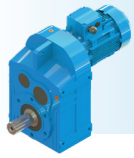
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
4,0 5,5	29	1273	**34,02**	49524	3,4	**DR673-3E132M/6C** **DR673-2E132M/6B**	8,52 8,80	258 253	128	IE3 IE2
	12 14 16 18 21 24 29 33 37	3118 2558 2262 2013 1705 1520 1248 1103 982	**126,06** **103,39** **91,30** **81,15** **68,64** **61,12** **50,13** **44,27** **39,35**	20356 27305 30108 32171 34424 35646 37240 38051 39156	1,0 1,2 1,3 1,5 1,8 2,0 2,4 2,7 3,0	**DR573-3E112M/4D** **DR573-2E112M/4C**	8,05 8,20	184 182	122	IE3 IE2
	43 51	854 729	**33,86** **28,87**	39349 40365	3,5 4,0	**DR572-3E112M/4D** **DR572-2E112M/4C**	8,05 8,20	177 175	122	IE3 IE2
	21 24 27 31 35 43 51	1751 1536 1351 1179 1034 856 711	**70,59** **61,85** **54,35** **47,37** **41,50** **34,28** **28,45**	14702 18463 20737 22775 24299 25898 27101	0,9 0,9 1,0 1,1 1,2 1,4 1,6	**DR473-3E112M/4D** **DR473-2E112M/4C**	8,05 8,20	132 130	116	IE3 IE2
	59 70 76 86	619 524 483 430	**24,54** **20,74** **19,11** **17,01**	25285 25860 25979 25208	2,5 3,0 3,2 3,6	**DR472-3E112M/4D** **DR472-2E112M/4C**	8,05 8,20	126 124	116	IE3 IE2
	45 53 62	800 685 588	**32,11** **27,53** **23,58**	13644 15376 16591	0,9 1,0 1,1	**DR373-3E112M/4D** **DR373-2E112M/4C**	8,05 8,20	94 92	112	IE3 IE2
	65 73 83 99 107 124 142 163 197 218 252 289 330	566 507 445 373 343 297 260 228 188 169 147 128 112	**22,46** **20,10** **17,65** **14,74** **13,60** **11,77** **10,25** **8,98** **7,42** **6,69** **5,79** **5,05** **4,42**	15164 15754 16309 16900 17131 16942 16368 15825 15055 14518 13979 13478 13007	1,4 1,6 1,8 2,2 2,4 2,7 2,9 3,1 3,4 3,1 3,4 3,6 3,9	**DR372-3E112M/4D** **DR372-2E112M/4C**	8,05 8,20	88 86	112	IE3 IE2
	78 88 104 121 141 155 178 206 220 255 280 323	472 419 355 304 263 239 207 180 169 146 133 115	**18,73** **16,62** **14,06** **12,03** **10,38** **9,45** **8,19** **7,09** **6,65** **5,74** **5,22** **4,52**	11476 12456 13556 14300 14851 15153 15151 14605 14285 13753 13418 12919	1,2 1,3 1,5 1,6 1,7 1,8 2,0 2,1 2,0 2,2 2,3 2,4	**DR282-3E112M/4D** **DR282-2E112M/4C**	8,05 8,20	54 52	108	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
4,0 5,5	373	99	**3,92**	12429	2,6	**DR282-3E112M/4D** **DR282-2E112M/4C**	8,05 8,20	54 52	108	IE3 IE2
	411 439 508 559 645 745	90 84 73 66 57 50	**7,09** **6,65** **5,74** **5,22** **4,52** **3,92**	12145 11892 11421 11125 10690 10266	3,4 3,3 3,5 3,7 3,9 4,0	**DR282-3E112M/2C** **DR282-2E112M/2A**	7,28 7,50	50 46	108	IE3 IE2
	91 103 123 144 168 213 251 293	403 357 300 256 219 173 147 126	**16,00** **14,14** **11,90** **10,11** **8,67** **6,84** **5,82** **4,98**	12632 13230 13113 12665 12233 11474 11038 10627	1,1 1,3 1,5 1,7 1,8 1,8 2,0 2,2	**DR272-3E112M/4D** **DR272-2E112M/4C**	8,05 8,20	48 46	104	IE3 IE2
	336 426 501 585	110 87 74 63	**8,67** **6,84** **5,82** **4,98**	10323 9655 9250 8874	2,9 3,0 3,3 3,5	**DR272-3E112M/2C** **DR272-2E112M/2A**	7,28 7,50	46 42	104	IE3 IE2
5,5 7,5	2,6	18571	**371,15**	199011	1,0	**DR974-3E132M/6D** **DR974-2E132M/6C**	11,55 12,00	828 823	148	IE3 IE2
	2,8 3,5 3,9 4,4 5,1 5,8 6,6 7,4	17336 13777 12338 11090 9453 8344 7412 6616	**523,19** **415,16** **371,15** **333,23** **284,06** **250,41** **222,15** **197,95**	202633 211954 215398 218216 221678 223881 225649 225999	1,0 1,3 1,5 1,6 1,9 2,2 2,4 2,7	**DR974-3E132S/4C** **DR974-2E132S/4B**	10,65 11,05	833 827	148	IE3 IE2
	4,4 5,0 5,6 6,5	11104 9740 8617 7514	**334,15** **293,46** **259,15** **225,61**	86126 92028 96551 100247	1,2 1,3 1,5 1,7	**DR874-3E132S/4C** **DR874-2E132S/4B**	10,65 11,05	544 538	142	IE3 IE2
	7,6 8,4 9,6 11	6545 5880 5160 4499	**128,20** **115,03** **101,03** **87,95**	103371 105394 107474 109257	2,0 2,2 2,5 2,9	**DR873-3E132M/6D** **DR873-2E132M/6C**	11,55 12,00	530 525	140	IE3 IE2
	11 13 14	4365 3921 3441	**128,20** **115,03** **101,03**	109629 110765 111948	3,0 3,3 3,8	**DR873-3E132S/4C** **DR873-2E132S/4B**	10,65 11,05	531 525	140	IE3 IE2
	5,1 6,1	9687 8062	**190,20** **158,23**	40559 55041	0,8 1,0	**DR773-3E132M/6D** **DR773-2E132M/6C**	11,55 12,00	327 322	134	IE3 IE2
	6,6 7,7 9,2	7531 6457 5375	**222,16** **190,20** **158,23**	58725 65096 70674	1,1 1,2 1,5	**DR773-3E132S/4C** **DR773-2E132S/4B**	10,65 11,05	347 341	134	IE3 IE2

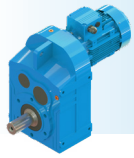
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
5,5 7,5	10 12 14 16 18 20	4813 4159 3607 3159 2788 2476	**141,55** **122,41** **105,99** **92,70** **81,72** **72,50**	73313 76114 78129 79752 81023 82044	1,7 1,9 2,2 2,5 2,9 3,2	**DR773-3E132S/4C** **DR773-2E132S/4B**	10,65 11,05	347 341	134	IE3 IE2
	10 12 14 16 18 21 24 25 29 33 38 43	4749 4236 3606 3105 2698 2362 2079 2027 1746 1517 1328 1169	**139,76** **124,53** **106,08** **91,19** **79,14** **69,18** **60,82** **59,34** **51,01** **44,27** **38,70** **34,02**	23996 30119 35903 39572 42224 44240 45753 46036 47360 48408 49229 49888	0,9 1,0 1,2 1,4 1,6 1,8 2,1 2,1 2,5 2,8 3,2 3,7	**DR673-3E132S/4C** **DR673-2E132S/4B**	10,65 11,05	257 251	128	IE3 IE2
	14 16 18 21 24 29 33 37 44	3518 3111 2768 2345 2090 1716 1517 1350 1144	**103,39** **91,30** **81,15** **68,64** **61,12** **50,13** **44,27** **39,35** **33,28**	12812 20634 25032 29293 31495 34309 35664 37191 39159	0,9 1,0 1,1 1,3 1,4 1,7 2,0 2,2 2,4	**DR573-3E132S/4C** **DR573-2E132S/4B**	10,65 11,05	204 198	122	IE3 IE2
	51 61 68 80	1002 834 744 633	**28,87** **24,02** **21,40** **18,23**	38609 39459 40014 41802	3,0 3,6 4,0 4,0	**DR572-3E132S/4C** **DR572-2E132S/4B**	10,65 11,05	197 191	122	IE3 IE2
	31 35 43 51	1621 1422 1177 978	**47,37** **41,50** **34,28** **28,45**	18519 21196 23827 25684	0,8 0,9 1,0 1,2	**DR473-3E132S/4C** **DR473-2E132S/4B**	10,65 11,05	152 146	116	IE3 IE2
	59 70 76 86 97 109 118 139 164 194 218 234 277 326	852 721 664 592 523 465 431 365 311 263 234 217 184 157	**24,54** **20,74** **19,11** **17,01** **15,02** **13,35** **12,40** **10,48** **8,93** **7,54** **6,71** **6,23** **5,26** **4,48**	23708 24642 25018 24671 23926 23227 22793 21821 20915 19872 19256 18877 18032 17252	1,8 2,1 2,3 2,6 3,0 3,3 3,6 4,0 4,0 4,0 4,0 4,0 4,0 4,0	**DR472-3E132S/4C** **DR472-2E132S/4B**	10,65 11,05	146 140	116	IE3 IE2
	390 439 473 560 657	130 116 107 91 77	**7,54** **6,71** **6,23** **5,26** **4,48**	16406 15872 15545 14821 14156	4,0 4,0 4,0 4,0 4,0	**DR472-3E132S/2B** **DR472-2E132S/2A**	9,90 10,20	137 133	116	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
5,5 7,5	83 99 107 124 142 163 197 218 252 289 330 400	612 512 472 409 357 313 259 233 202 176 155 128	**17,65** **14,74** **13,60** **11,77** **10,25** **8,98** **7,42** **6,69** **5,79** **5,05** **4,42** **3,65**	14646 15682 16049 16463 15952 15462 14757 14199 13704 13239 12798 12175	1,3 1,6 1,7 1,9 2,1 2,2 2,5 2,3 2,5 2,6 2,8 3,1	**DR372-3E132S/4C** **DR372-2E132S/4B**	10,65 11,05	114 108	112	IE3 IE2
	440 508 583 666 806	115 100 87 76 63	**6,69** **5,79** **5,05** **4,42** **3,65**	11868 11417 10998 10607 10059	3,7 4,0 4,0 4,0 4,0	**DR372-3E132S/2B** **DR372-2E132S/2A**	9,90 10,20	105 101	112	IE3 IE2
	104 121 141 155 178 206 220 255 280 323 373	489 419 362 329 285 247 232 200 182 158 137	**14,06** **12,03** **10,38** **9,45** **8,19** **7,09** **6,65** **5,74** **5,22** **4,52** **3,92**	12123 13280 14091 14509 14758 14266 13937 13454 13146 12684 12226	1,1 1,2 1,3 1,3 1,4 1,5 1,5 1,6 1,6 1,8 1,9	**DR282-3E132S/4C** **DR282-2E132S/4B**	10,65 11,05	74 68	108	IE3 IE2
	415 443 513 564 651 752	122 115 99 90 78 68	**7,09** **6,65** **5,74** **5,22** **4,52** **3,92**	11945 11689 11242 10961 10544 10137	2,5 2,4 2,6 2,7 2,9 3,1	**DR282-3E132S/2B** **DR282-2E132S/2A**	9,90 10,20	65 61	108	IE3 IE2
7,5 10	3,5 3,9 4,4	18723 16768 15071	**415,16** **371,15** **333,23**	198352 204044 208956	1,0 1,1 1,2	**DR974-3E132M/4D** **DR974-2E132M/4C**	14,40 15,00	832 827	148	IE3 IE2
	5,1 5,7 6,3 7,1 8,1 9,2 10 12 13	13330 11902 10721 9484 8307 7353 6563 5899 5030	**191,74** **171,00** **153,87** **136,23** **119,15** **105,33** **93,91** **84,31** **71,87**	213157 216210 218856 221480 216491 209704 203492 197762 189465	1,4 1,5 1,7 1,9 2,2 2,4 2,7 3,1 3,6	**DR973-3E160M/6D** **DR973-2E160M/6B**	15,00 15,00	850 850	146	IE3 IE2
	5,0 5,7 6,5	13237 11710 10211	**293,46** **259,15** **225,61**	75425 83251 90070	1,0 1,1 1,3	**DR874-3E132M/4D** **DR874-2E132M/4C**	14,40 15,00	541 536	142	IE3 IE2
	7,6 8,4 9,6	8928 8020 7038	**128,20** **115,03** **101,03**	95338 98632 101926	1,5 1,6 1,8	**DR873-3E160M/6** **DR873-2E160M/6**	15,00 15,00	569 569	140	IE3 IE2

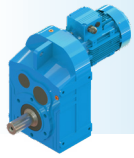
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
7,5 10	11 13 15 17 19	5934 5330 4678 4079 3593	**128,20** **115,03** **101,03** **87,95** **77,36**	105268 107010 108802 110365 111578	2,2 2,4 2,8 3,2 3,6	**DR873-3E132M/4D** **DR873-2E132M/4C**	14,40 15,00	533 528	140	IE3 IE2
	7,7 9,3 10 12 14 16 18 20	8778 7306 6543 5654 4903 4294 3790 3366	**190,20** **158,23** **141,55** **122,41** **105,99** **92,70** **81,72** **72,50**	49412 60185 64613 69316 72842 75467 77436 79012	0,9 1,1 1,2 1,4 1,6 1,9 2,1 2,4	**DR773-3E132M/4D** **DR773-2E132M/4C**	14,40 15,00	353 348	134	IE3 IE2
	23 26 29 30 35	2938 2609 2329 2244 1947	**41,85** **37,12** **33,10** **31,92** **27,65**	80447 81553 81723 80959 77981	2,7 3,1 3,4 3,6 4,0	**DR773-3E160M/6D** **DR773-2E160M/6B**	15,00 15,00	406 406	134	IE3 IE2
	14 16 19 21 24 25 29 33 38 43	4902 4221 3668 3211 2826 2756 2373 2063 1806 1590	**106,08** **91,19** **79,14** **69,18** **60,82** **59,34** **51,01** **44,27** **38,70** **34,02**	21751 30278 35393 38825 41425 41865 44128 45805 47074 48083	0,9 1,0 1,2 1,3 1,5 1,6 1,8 2,1 2,4 2,7	**DR673-3E132M/4D** **DR673-2E132M/4C**	14,40 15,00	263 258	128	IE3 IE2
	56 63	1233 1104	**26,11** **23,36**	49626 50149	3,5 3,9	**DR672-3E132M/4D** **DR672-2E132M/4C**	14,40 15,00	253 248	128	IE3 IE2
	21 24 29 33 37 44	3188 2842 2333 2063 1836 1555	**68,64** **61,12** **50,13** **44,27** **39,35** **33,28**	19385 24157 29405 31718 34098 36956	0,9 1,1 1,3 1,5 1,6 1,8	**DR573-3E132M/4D** **DR573-2E132M/4C**	14,40 15,00	210 205	122	IE3 IE2
	51 61 68 80 93 108	1363 1134 1012 861 741 644	**28,87** **24,02** **21,40** **18,23** **15,67** **13,60**	36623 37901 38560 39327 39562 38083	2,2 2,6 3,0 3,5 4,0 4,0	**DR572-3E132M/4D** **DR572-2E132M/4C**	14,40 15,00	203 198	122	IE3 IE2
	51	1330	**28,45**	23277	0,8	**DR473-3E132M/4D** **DR473-2E132M/4C**	14,40 15,00	158 153	116	IE3 IE2
	60 71 77 86 98 110	1158 980 903 804 711 633	**24,54** **20,74** **19,11** **17,01** **15,02** **13,35**	21194 22734 23345 23926 23269 22643	1,3 1,6 1,7 1,9 2,2 2,4	**DR472-3E132M/4D** **DR472-2E132M/4C**	14,40 15,00	148 143	116	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
7,5 10	118 140 164 194 218 235 278 327	587 496 423 358 318 295 250 213	**12,40** **10,48** **8,93** **7,54** **6,71** **6,23** **5,26** **4,48**	22251 21361 20523 19493 18919 18563 17766 17024	2,6 3,1 3,4 3,3 3,5 3,6 4,0 4,0	**DR472-3E132M/4D** **DR472-2E132M/4C**	14,40 15,00	148 143	116	IE3 IE2
	390 439 473 560 657	178 158 147 124 106	**7,54** **6,71** **6,23** **5,26** **4,48**	16229 15715 15399 14698 14052	4,0 4,0 4,0 4,0 4,0	**DR472-3E132S/2C** **DR472-2E132S/2B**	13,20 13,60	143 136	116	IE3 IE2
	83 99 108 125 143 163 197 219 253 290 331 401	833 697 642 556 485 426 352 317 275 240 210 174	**17,65** **14,74** **13,60** **11,77** **10,25** **8,98** **7,42** **6,69** **5,79** **5,05** **4,42** **3,65**	11769 13652 14312 15496 15378 14959 14342 13757 13322 12906 12507 11933	1,0 1,2 1,3 1,4 1,5 1,6 1,8 1,7 1,8 1,9 2,1 2,2	**DR372-3E132M/4D** **DR372-2E132M/4C**	14,40 15,00	120 115	112	IE3 IE2
	440 508 583 666 806	158 137 119 104 86	**6,69** **5,79** **5,05** **4,42** **3,65**	11658 11236 10841 10470 9946	2,7 3,0 3,2 3,4 3,7	**DR372-3E132S/2C** **DR372-2E132S/2B**	13,20 13,60	112 105	112	IE3 IE2
	122 141 155 179 207 220 255 281 324 374	569 492 448 388 336 315 272 248 215 186	**12,03** **10,38** **9,45** **8,19** **7,09** **6,65** **5,74** **5,22** **4,52** **3,92**	11516 12805 13469 14216 13798 13456 13040 12769 12358 11944	0,9 0,9 1,0 1,1 1,1 1,1 1,2 1,2 1,3 1,4	**DR282-3E132M/4D** **DR282-2E132M/4C**	14,40 15,00	82 77	108	IE3 IE2
	415 443 513 564 651 752	167 157 136 123 107 93	**7,09** **6,65** **5,74** **5,22** **4,52** **3,92**	11722 11460 11045 10782 10390 10003	1,9 1,8 1,9 2,0 2,1 2,3	**DR282-3E132S/2C** **DR282-2E132S/2B**	13,20 13,60	72 65	108	IE3 IE2
11 15	5,1 5,7 6,3 7,1	19562 17467 15733 13918	**191,74** **171,00** **153,87** **136,23**	195964 201979 206831 211539	0,9 1,0 1,1 1,3	**DR973-3E160L/6D** **DR973-2E160L/6B**	21,50 22,00	865 865	146	IE3 IE2
	7,7 8,6	12950 11564	**191,74** **171,00**	213002 207413	1,4 1,6	**DR973-3E160M/4C** **DR973-2E160M/4B**	21,00 21,00	846 856	146	IE3 IE2

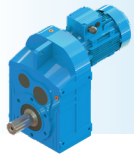
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
11 15	9,6 12 14 16 17 20	10417 8073 7146 6379 5733 4889	**153,87** **119,15** **105,33** **93,91** **84,31** **71,87**	202265 189920 184068 178699 173736 166537	1,7 2,2 2,5 2,8 3,1 3,7	**DR973-3E160M/4C** **DR973-2E160M/4B**	21,00 21,00	846 856	146	IE3 IE2
	7,6 8,4 9,6	13102 11769 10328	**128,20** **115,03** **101,03**	76189 83159 89728	1,0 1,1 1,3	**DR873-3E160L/6D** **DR873-2E160L/6B**	21,50 22,00	568 568	140	IE3 IE2
	11 13 15 17 19 21 24 27 28	8675 7793 6839 5964 5253 4665 4171 3749 3537	**128,20** **115,03** **101,03** **87,95** **77,36** **68,62** **61,27** **55,01** **51,94**	96275 99413 102535 105238 107277 108878 110166 111226 111744	1,5 1,7 1,9 2,2 2,5 2,8 3,1 3,5 3,7	**DR873-3E160M/4C** **DR873-2E160M/4B**	21,00 21,00	549 559	140	IE3 IE2
	10 12 14 16 18 20 24 27 31 35 40 44 46	9566 8267 7169 6279 5542 4922 4233 3672 3200 2856 2537 2265 2182	**141,55** **122,41** **105,99** **92,70** **81,72** **72,50** **62,33** **53,99** **46,99** **41,85** **37,12** **33,10** **31,92**	42043 53529 61044 66194 69958 72832 75673 78025 78160 76007 73800 71706 71048	0,8 1,0 1,1 1,3 1,4 1,6 1,9 2,2 2,5 2,8 3,2 3,5 3,7	**DR773-3E160M/4C** **DR773-2E160M/4B**	21,00 21,00	386 396	134	IE3 IE2
	21 24 25 29 33 38 43 49	4694 4132 4030 3470 3016 2640 2324 2055	**69,18** **60,82** **59,34** **51,01** **44,27** **38,70** **34,02** **30,04**	24752 31197 32186 36977 40245 42628 44445 45809	0,9 1,0 1,1 1,2 1,4 1,6 1,9 2,1	**DR673-3E160M/4C** **DR673-2E160M/4B**	21,00 21,00	296 306	128	IE3 IE2
	56 63 73 84	1803 1615 1395 1210	**26,11** **23,36** **20,20** **17,49**	47106 47994 48964 49740	2,4 2,7 3,1 3,6	**DR672-3E160M/4C** **DR672-2E160M/4B**	21,00 21,00	286 296	128	IE3 IE2
	29 33 37 44 52	3410 3016 2684 2274 1943	**50,13** **44,27** **39,35** **33,28** **28,39**	15331 21948 26941 32079 35497	0,9 1,0 1,1 1,2 1,3	**DR573-3E160M/4C** **DR573-2E160M/4B**	21,00 21,00	246 256	122	IE3 IE2
	61 69 81 94	1659 1480 1259 1084	**24,02** **21,40** **18,23** **15,67**	34737 35901 37194 38196	1,8 2,0 2,4 2,8	**DR572-3E160M/4C** **DR572-2E160M/4B**	21,00 21,00	236 246	122	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
11	108	942	**13,60**	37285	3,0	**DR572-3E160M/4C**	21,00	236	122	IE3
15	124	824	**11,89**	36017	3,3	**DR572-2E160M/4B**	21,00	246		IE2
	141	725	**10,45**	34824	3,5					
	170	599	**8,65**	32868	3,4					
	198	516	**7,43**	31579	3,7					
	228	448	**6,45**	30400	4,0					
	261	392	**5,64**	29310	4,0					
	297	345	**4,96**	28292	4,0					
	336	305	**4,38**	27334	4,0					
	71	1433	**20,74**	18374	1,1	**DR472-3E160M/4C**	21,00	191	116	IE3
	77	1320	**19,11**	19638	1,2	**DR472-2E160M/4B**	21,00	201		IE2
	86	1176	**17,01**	21064	1,3					
	98	1040	**15,02**	22118	1,5					
	110	925	**13,35**	21624	1,7					
	119	858	**12,40**	21306	1,8					
	140	726	**10,48**	20565	2,1					
	165	619	**8,93**	19846	2,3					
	195	524	**7,54**	18836	2,3					
	219	466	**6,71**	18336	2,4					
	236	432	**6,23**	18022	2,5					
	279	365	**5,26**	17309	2,7					
	328	312	**4,48**	16634	2,9					
15	6,3	21348	**153,87**	190136	0,8	**DR973-3E180L/6E**	29,00	935	146	IE3
20	7,2	18885	**136,23**	198061	1,0	**DR973-2E180L/6D**	29,00	915		IE2
	7,7	17662	**191,74**	201861	1,0	**DR973-3E160L/4D**	29,00	861	146	IE3
	8,6	15771	**171,00**	200345	1,1	**DR973-2E160L/4C**	29,30	858		IE2
	9,6	14207	**153,87**	195935	1,3					
	11	12569	**136,23**	190782	1,4					
	12	11010	**119,15**	185067	1,6					
	14	9746	**105,33**	179796	1,8					
	16	8700	**93,91**	174905	2,1					
	17	7820	**84,31**	170340	2,3					
	20	6668	**71,87**	163654	2,7					
	23	5886	**63,36**	158457	3,1					
	26	5228	**56,21**	153599	3,4					
	11	11832	**128,20**	83040	1,1	**DR873-3E160L/4D**	29,00	565	140	IE3
	13	10629	**115,03**	88576	1,2	**DR873-2E160L/4C**	29,30	563		IE2
	15	9328	**101,03**	93920	1,4					
	17	8134	**87,95**	98325	1,6					
	19	7165	**77,36**	101590	1,8					
	21	6363	**68,62**	104135	2,0					
	24	5689	**61,27**	106096	2,3					
	27	5113	**55,01**	107712	2,5					
	28	4825	**51,94**	108496	2,7					
	32	4224	**45,41**	110068	3,1					
	37	3718	**39,92**	111333	3,5					
	14	9778	**105,99**	39792	0,8	**DR773-3E160L/4D**	29,00	401	134	IE3
	16	8563	**92,70**	51192	0,9	**DR773-2E160L/4C**	29,30	398		IE2
	18	7559	**81,72**	58545	1,1					
	20	6713	**72,50**	63899	1,2					
	23	5992	**64,64**	67809	1,3					
	24	5773	**62,33**	68915	1,4					
	27	5008	**53,99**	72524	1,6					
	31	4364	**46,99**	75276	1,8					
	35	3896	**41,85**	73747	2,1					
	40	3461	**37,12**	71803	2,3					

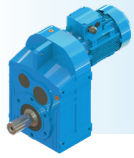
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
15 20	44 46 53 61	3089 2977 2582 2250	**33,10** **31,92** **27,65** **24,06**	69933 69340 67002 64756	2,6 2,7 3,1 3,6	**DR773-3E160L/4D** **DR773-2E160L/4C**	29,00 29,30	401 398	134	IE3 IE2
	29 33 38 43 49	4733 4114 3601 3170 2802	**51,01** **44,27** **38,70** **34,02** **30,04**	24222 31358 36035 39262 41693	0,9 1,0 1,2 1,4 1,5	**DR673-3E160L/4D** **DR673-2E160L/4C**	29,00 29,30	311 308	128	IE3 IE2
	56 63 73 84 96 109 123 138 143	2460 2203 1903 1650 1445 1275 1132 1010 973	**26,11** **23,36** **20,20** **17,49** **15,30** **13,48** **11,96** **10,67** **10,29**	43734 45142 46607 47858 48770 49694 51109 50313 49831	1,7 2,0 2,3 2,6 3,0 3,3 3,6 3,8 3,9	**DR672-3E160L/4D** **DR672-2E160L/4C**	29,00 29,30	301 308	128	IE3 IE2
	44 52	3102 2650	**33,28** **28,39**	23943 30286	0,9 1,0	**DR573-3E160L/4D** **DR573-2E160L/4C**	29,00 29,30	261 258	122	IE3 IE2
	61 69 81 94 108 124 141 170 198 228 261 297 336	2263 2018 1718 1479 1285 1124 990 818 704 611 535 471 416	**24,02** **21,40** **18,23** **15,67** **13,60** **11,89** **10,45** **8,65** **7,43** **6,45** **5,64** **4,96** **4,38**	30168 32180 34376 35938 36402 35248 34151 32221 31024 29920 28892 27926 27011	1,3 1,5 1,7 2,0 2,2 2,4 2,6 2,5 2,7 2,9 3,1 3,3 3,5	**DR572-3E160L/4D** **DR572-2E160L/4C**	29,00 29,30	251 248	122	IE3 IE2
	98 110 119 140 165 195 219 236 279 328	1418 1262 1170 990 844 714 635 589 499 425	**15,02** **13,35** **12,40** **10,48** **8,93** **7,54** **6,71** **6,23** **5,26** **4,48**	18551 20278 20222 19657 19078 18089 17676 17411 16796 16201	1,1 1,2 1,3 1,6 1,7 1,7 1,8 1,8 2,0 2,2	**DR472-3E160L/4D** **DR472-2E160L/4C**	29,00 29,30	215 212	116	IE3 IE2
18,5 25	8,6 9,6 11 12 14 16 17 21 23 26 34	19387 17464 15450 13534 11980 10694 9613 8197 7236 6427 4972	**171,00** **153,87** **136,23** **119,15** **105,33** **93,91** **84,31** **71,87** **63,36** **56,21** **43,38**	193925 190175 185696 180628 175876 171410 167201 160973 156087 151490 141753	0,9 1,0 1,2 1,3 1,5 1,7 1,9 2,2 2,5 2,8 3,6	**DR973-3E180M/4C** **DR973-2E180M/4B**	34,50 34,50	901 901	146	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
18,5 25	12 13 15 17 19 21 24 27 28 32 37 48	14544 13066 11467 9999 8808 7822 6993 6286 5931 5192 4570 3498	**128,20** **115,03** **101,03** **87,95** **77,36** **68,62** **61,27** **55,01** **51,94** **45,41** **39,92** **30,50**	67406 76391 84605 91103 95782 99313 101922 104319 105467 107447 109130 110047	0,9 1,0 1,1 1,3 1,5 1,7 1,9 2,1 2,2 2,5 2,8 3,7	**DR873-3E180M/4C** **DR873-2E180M/4B**	34,50 34,50	605 605	140	IE3 IE2
	18 20 24 27 31 35 40 45 46 53 61	9291 8252 7097 6156 5365 4789 4254 3798 3659 3174 2766	**81,72** **72,50** **62,33** **53,99** **46,99** **41,85** **37,12** **33,10** **31,92** **27,65** **24,06**	44784 53639 61486 66847 70804 71691 69983 68311 67776 65647 63576	0,9 1,0 1,1 1,3 1,5 1,7 1,9 2,1 2,2 2,5 2,9	**DR773-3E180M/4C** **DR773-2E180M/4B**	34,50 34,50	441 441	134	IE3 IE2
	65 74 85	2638 2299 2025	**22,77** **19,82** **17,44**	62824 60757 58860	3,0 3,5 4,0	**DR772-3E180M/4C** **DR772-2E180M/4B**	34,50 34,50	426 426	134	IE3 IE2
	33 38 43 49	5057 4427 3897 3445	**44,27** **38,70** **34,02** **30,04**	19234 28011 33413 37171	0,9 1,0 1,1 1,2	**DR673-3E180M/4C** **DR673-2E180M/4B**	34,50 34,50	351 351	128	IE3 IE2
	56 63 73 84 96 109 123 138 143 166 190 198 223 250 260	3024 2708 2339 2029 1776 1568 1392 1242 1197 1038 904 868 771 688 663	**26,11** **23,36** **20,20** **17,49** **15,30** **13,48** **11,96** **10,67** **10,29** **8,91** **7,75** **7,45** **6,61** **5,89** **5,68**	40194 42220 44361 46006 47287 48429 50093 49662 49202 47408 45708 45019 43618 42302 41890	1,4 1,6 1,8 2,1 2,4 2,7 2,9 3,1 3,2 3,4 3,7 3,3 3,5 3,7 3,8	**DR672-3E180M/4C** **DR672-2E180M/4B**	34,50 34,50	341 341	128	IE3 IE2
	61 69 81 94 108 124 141 171 198 229 262	2781 2481 2112 1818 1580 1382 1216 1005 865 752 658	**24,02** **21,40** **18,23** **15,67** **13,60** **11,89** **10,45** **8,65** **7,43** **6,45** **5,64**	24887 28081 31380 33631 35594 34541 33528 31623 30509 29472 28498	1,1 1,2 1,4 1,7 1,8 2,0 2,1 2,0 2,2 2,4 2,5	**DR572-3E180M/4C** **DR572-2E180M/4B**	34,50 34,50	291 291	122	IE3 IE2

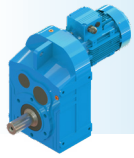
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
18,5 25	298 337	579 511	**4,96** **4,38**	27578 26703	2,7 2,9	**DR572-3E180M/4C** **DR572-2E180M/4B**	34,50 34,50	291 291	122	IE3 IE2
22 30	11 12 14 16 17 21 23 26 34 39 43	18374 16096 14248 12719 11432 9748 8605 7643 5913 5220 4637	**136,23** **119,15** **105,33** **93,91** **84,31** **71,87** **63,36** **56,21** **43,38** **38,24** **33,93**	180681 176275 172053 168021 164173 158409 153837 149503 140230 135800 131656	1,0 1,1 1,3 1,4 1,6 1,8 2,1 2,4 3,0 3,4 3,9	**DR973-3E180L/4D** **DR973-2E180L/4C**	42,50 42,50	904 904	146	IE3 IE2
	15 17 19 21 24 27 28 32 37 48 55 63	13637 11891 10475 9303 8317 7476 7054 6175 5435 4161 3642 3206	101,03 **87,95** **77,36** **68,62** **61,27** **55,01** **51,94** **45,41** **39,92** **30,50** **26,66** **23,44**	73103 82552 89089 93895 97578 100487 101711 104682 106765 108822 105180 101746	1,0 1,1 1,2 1,4 1,6 1,7 1,8 2,1 2,4 3,1 3,6 4,0	**DR873-3E180L/4D** **DR873-2E180L/4C**	42,50 42,50	608 608	140	IE3 IE2
	24 27 31 35 40 45 46 53 61	8440 7322 6380 5696 5060 4517 4352 3775 3290	**62,33** **53,99** **46,99** **41,85** **37,12** **33,10** **31,92** **27,65** **24,06**	52195 60083 65641 69203 68194 66726 66250 64334 62440	0,9 1,1 1,3 1,4 1,6 1,8 1,8 2,1 2,4	**DR773-3E180L/4D** **DR773-2E180L/4C**	42,50 42,50	444 444	134	IE3 IE2
	65 74 85 95 107	3137 2735 2409 2139 1911	**22,77** **19,82** **17,44** **15,46** **13,81**	61763 59838 58055 56394 54839	2,6 2,9 3,3 3,6 3,8	**DR772-3E180L/4D** **DR772-2E180L/4C**	42,50 42,50	429 429	134	IE3 IE2
	43 49	4635 4097	**34,02** **30,04**	25522 31539	0,9 1,0	**DR673-3E180L/4D** **DR673-2E180L/4C**	42,50 42,50	354 354	128	IE3 IE2
	56 63 73 84 96 109 123 138 143 166 190 198 223	3596 3220 2782 2413 2113 1865 1656 1478 1423 1234 1075 1033 917	**26,11** **23,36** **20,20** **17,49** **15,30** **13,48** **11,96** **10,67** **10,29** **8,91** **7,75** **7,45** **6,61**	35981 38832 41759 43953 45575 47008 49004 49051 48614 46901 45268 44556 43208	1,2 1,3 1,5 1,8 2,0 2,3 2,4 2,6 2,7 2,9 3,1 2,8 3,0	**DR672-3E180L/4D** **DR672-2E180L/4C**	42,50 42,50	344 344	128	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
22 30	250 260 300 344	818 788 684 595	**5,89** **5,68** **4,92** **4,28**	41937 41539 39988 38523	3,2 3,2 3,5 3,7	**DR672-3E180L/4D** **DR672-2E180L/4C**	42,50 42,50	344 344	128	IE3 IE2
	61 69 81 94 108 124 141 171 198 229 262 298 337	3308 2951 2511 2162 1879 1644 1447 1195 1029 894 783 689 608	**24,02** **21,40** **18,23** **15,67** **13,60** **11,89** **10,45** **8,65** **7,43** **6,45** **5,64** **4,96** **4,38**	17297 22821 27782 30962 34121 33856 32929 31046 30016 29046 28128 27254 26417	0,9 1,0 1,2 1,4 1,5 1,6 1,8 1,7 1,8 2,0 2,1 2,3 2,4	**DR572-3E180L/4D** **DR572-2E180L/4C**	42,50 42,50	294 294	122	IE3 IE2
30 40	16 17 21 23 26 29 34 39 43 57	17345 15590 13294 11735 10424 9305 8064 7119 6323 4831	**93,91** **84,31** **71,87** **63,36** **56,21** **50,12** **43,38** **38,24** **33,93** **25,92**	160126 157128 152454 148619 144897 141287 136711 132711 128926 119680	1,0 1,2 1,4 1,5 1,7 1,9 2,2 2,5 2,8 3,7	**DR973-3G200L/4** **DR973-2G200L/4**	55,00 55,00	930 917	146	IE3 IE2
	21 24 27 28 32 37 42 48 55 63 83 95 109	12687 11342 10195 9619 8421 7413 6552 5674 4968 4373 3297 2886 2541	**68,62** **61,27** **55,01** **51,94** **45,41** **39,92** **35,24** **30,50** **26,66** **23,44** **17,67** **15,45** **13,58**	78462 85191 90282 92646 97201 100697 103433 105990 102716 99587 92088 89035 86150	1,0 1,1 1,3 1,4 1,5 1,8 2,0 2,3 2,6 3,0 3,3 3,7 4,0	**DR873-3G200L/4** **DR873-2G200L/4**	55,00 55,00	634 621	140	IE3 IE2
	35 40 45 46 53 61	7768 6900 6160 5935 5149 4487	**41,85** **37,12** **33,10** **31,92** **27,65** **24,06**	57128 62675 63030 62694 61279 59800	1,0 1,2 1,3 1,3 1,6 1,8	**DR773-3G200L/4** **DR773-2G200L/4**	55,00 55,00	470 457	134	IE3 IE2
	65 74 85 95 107 119 126 144 164 170	4278 3730 3285 2917 2607 2343 2210 1934 1702 1645	**22,77** **19,82** **17,44** **15,46** **13,81** **12,40** **11,71** **10,23** **9,00** **8,70**	59298 57706 56190 54749 53376 52064 51365 49733 48181 47306	1,9 2,1 2,4 2,6 2,8 3,0 3,1 3,3 3,6 3,2	**DR772-3G200L/4** **DR772-2G200L/4**	55,00 55,00	455 442	134	IE3 IE2

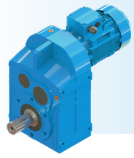
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
30 40	190 212 224 256 292 330	1470 1321 1246 1091 960 848	**7,76** **6,97** **6,58** **5,75** **5,06** **4,47**	46012 44792 44147 42653 41246 39911	3,4 3,6 3,7 4,0 4,0 4,0	**DR772-3G200L/4** **DR772-2G200L/4**	55,00 55,00	455 442	134	IE3 IE2
	73 84 96 109 123 138 143 166 190 198 223 250 260 300 344	3795 3290 2881 2543 2258 2015 1941 1684 1467 1409 1251 1117 1076 933 812	**20,20** **17,49** **15,30** **13,48** **11,96** **10,67** **10,29** **8,91** **7,75** **7,45** **6,61** **5,89** **5,68** **4,92** **4,28**	34319 38327 41129 43495 46209 47639 47254 45729 44252 43485 42262 41097 40729 39289 37917	1,1 1,3 1,5 1,7 1,8 1,9 2,0 2,1 2,3 2,0 2,2 2,3 2,4 2,5 2,7	**DR672-3G200L/4** **DR672-2G200L/4**	55,00 55,00	370 357	128	IE3 IE2
37 50	21 23 26 29 34 39 43 57 65 73	16397 14474 12857 11477 9946 8780 7799 5959 5261 4673	**71,87** **63,36** **56,21** **50,12** **43,38** **38,24** **33,93** **25,92** **22,85** **20,27**	147136 143967 140798 137653 133587 129972 126508 117636 114147 110852	1,1 1,2 1,4 1,6 1,8 2,1 2,3 3,0 3,3 3,6	**DR973-3G225S/4** **DR973-2G225S/4**	67,00 67,00	1020 1004	146	IE3 IE2
	27 28 32 37 42 48 55 63 83 95 109	12575 11865 10387 9143 8082 6999 6127 5394 4067 3560 3134	**55,01** **51,94** **45,41** **39,92** **35,24** **30,50** **26,66** **23,44** **17,67** **15,45** **13,58**	79060 82684 89469 94513 98411 101903 100531 97677 90478 87634 84923	1,0 1,1 1,3 1,4 1,6 1,9 2,1 2,4 2,7 3,0 3,2	**DR873-3G225S/4** **DR873-2G225S/4**	67,00 67,00	723 707	140	IE3 IE2
	105 119 135 151	3265 2881 2558 2283	**14,02** **12,36** **10,97** **9,78**	86316 83594 81048 78649	3,4 3,7 4,0 4,0	**DR872-3G225S/4** **DR872-2G225S/4**	67,00 67,00	705 689	140	IE3 IE2
	45 46 53 61 71 79 82	7597 7320 6351 5534 4800 4285 4128	**33.10** **31.92** **27.65** **24.06** **20.87** **18.61** **17.95**	58284 59505 58545 57443 54829 53888 53573	1,1 1,1 1,3 1,4 1,2 1,3 1,3	**DR773-3G225S/4** **DR773-2G225S/4**	67,00 67,00	555 539	134	IE3 IE2

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
37 50	95 107 119 126 144 164 170 190 212 224 256 292 330	3598 3216 2890 2726 2386 2099 2029 1814 1630 1537 1345 1184 1046	**15,46** **13,81** **12,40** **11,71** **10,23** **9,00** **8,70** **7,76** **6,97** **6,58** **5,75** **5,06** **4,47**	53286 52076 50903 50272 48782 47349 46387 45195 44061 43458 42053 40720 39449	2,1 2,3 2,4 2,5 2,7 2,9 2,6 2,8 2,9 3,0 3,2 3,4 3,6	**DR772-3G225S/4** **DR772-2G225S/4**	67,00 67,00	548 532	134	IE3 IE2
45 60	23 26 29 34 39 43 57 65 73	17605 15638 13959 12097 10680 9487 7248 6399 5684	**63,36** **56,21** **50,12** **43,38** **38,24** **33,93** **25,92** **22,85** **20,27**	138551 136032 133434 129965 126800 123710 115272 112074 109022	1,0 1,2 1,3 1,5 1,7 1,9 2,5 2,7 3,0	**DR973-3G225M/4** **DR973-2G225M/4**	80,00 80,00	1050 1050	146	IE3 IE2
	89	4713	**16,64**	104840	3,8	**DR972-3G225M/4** **DR972-2G225M/4**	80,00 80,00	1031 1031	146	IE3 IE2
	32 37 42 48 55 63 83 95 109	12633 11121 9830 8512 7453 6560 4946 4331 3812	**45,41** **39,92** **35,24** **30,50** **26,66** **23,44** **17,67** **15,45** **13,58**	78748 86217 91795 96872 98003 95467 88617 86016 83508	1,0 1,2 1,3 1,5 1,7 2,0 2,2 2,4 2,7	**DR873-3G225M/4** **DR873-2G225M/4**	80,00 80,00	751 751	140	IE3 IE2
	105 119 135 151 169 182 206 232 260	3971 3504 3112 2777 2488 2307 2036 1808 1613	**14,02** **12,36** **10,97** **9,78** **8,75** **8,12** **7,16** **6,35** **5,66**	85020 82456 80041 77754 75576 73621 71268 69071 67004	2,8 3,0 3,3 3,5 3,7 3,4 3,7 3,9 4,0	**DR872-3G225M/4** **DR872-2G225M/4**	80,00 80,00	735 735	140	IE3 IE2
	53 61 71 79 82	7724 6732 5838 5212 5022	**27.65** **24.06** **20.87** **18.61** **17.95**	55351 54694 52130 51504 51281	1,0 1,2 1,0 1,1 1,1	**DR773-3G225M/4** **DR773-2G225M/4**	80,00 80,00	586 586	134	IE3 IE2
	95 107 119 126 144 164 170	4376 3911 3515 3316 2902 2554 2468	**15,46** **13,81** **12,40** **11,71** **10,23** **9,00** **8,70**	51587 50569 49558 49005 47682 46388 45324	1,8 1,9 2,0 2,1 2,2 2,4 2,1	**DR772-3G225M/4** **DR772-2G225M/4**	80,00 80,00	578 578	134	IE3 IE2

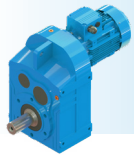
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
45	190	2206	**7,76**	44251	2,3	**DR772-3G225M/4**	80,00	578	134	IE3
60	212	1983	**6,97**	43217	2,4	**DR772-2G225M/4**	80,00	578		IE2
	224	1870	**6,58**	42663	2,5					
	256	1637	**5,75**	41361	2,7					
	292	1440	**5,06**	40115	2,8					
	330	1272	**4,47**	38916	3,0					
55	30	17004	**50,12**	128000	1,1	**DR973-3G250M/4**	96,00	1135	146	IE3
75	34	14736	**43,38**	125293	1,2	**DR973-2G250M/4**	96,00	1135		IE2
	39	13009	**38,24**	122701	1,4					
	44	11556	**33,93**	120086	1,6					
	57	8829	**25,92**	112199	2,0					
	65	7795	**22,85**	109372	2,2					
	73	6924	**20,27**	106629	2,4					
	89	5742	**16,64**	103071	3,1	**DR972-3G250M/4**	96,00	1116	146	IE3
	100	5100	**14,77**	100154	3,5	**DR972-2G250M/4**	96,00	1116		IE2
	112	4560	**13,19**	97419	3,9					
	125	4100	**11,85**	94841	4,0					
	42	11974	**35,24**	82139	1,1	**DR873-3G250M/4**	96,00	836	140	IE3
	49	10369	**30,50**	89541	1,3	**DR873-2G250M/4**	96,00	836		IE2
	56	9078	**26,66**	94741	1,4					
	63	7992	**23,44**	92610	1,6					
	84	6025	**17,67**	86202	1,8					
	96	5275	**15,45**	83909	2,0					
	109	4644	**13,58**	81659	2,2					
	106	4837	**14,02**	83320	2,3	**DR872-3G250M/4**	96,00	820	140	IE3
	120	4269	**12,36**	80956	2,5	**DR872-2G250M/4**	96,00	820		IE2
	135	3791	**10,97**	78708	2,7					
	151	3383	**9,78**	76563	2,8					
	169	3031	**8,75**	74507	3,0					
	182	2811	**8,12**	72511	2,8					
	207	2481	**7,16**	70287	3,0					
	233	2203	**6,35**	68197	3,2					
	261	1965	**5,66**	66221	3,4					
75	39	17681	**38,24**	114422	1,0	**DR973-3G280S/4**	133,00	1295	146	IE3
97	44	15706	**33,93**	112795	1,1	**DR973-2G280S/4**	133,00	1295		IE2
	57	12000	**25,92**	106031	1,5					
	65	10595	**22,85**	103969	1,6					
	73	9411	**20,27**	101861	1,8					
	89	7804	**16,64**	99589	2,3	**DR972-3G280S/4**	133,00	1170	146	IE3
	101	6932	**14,77**	97071	2,6	**DR972-2G280S/4**	133,00	1170		IE2
	113	6198	**13,19**	94669	2,9					
	125	5573	**11,85**	92373	3,2					
	149	4677	**9,94**	87788	3,2					
	168	4154	**8,82**	85342	3,4					
	188	3714	**7,88**	83043	3,6					
	210	3339	**7,08**	80872	3,9					
	56	12339	**26,66**	80292	1,1	**DR873-3G280S/4**	133,00	996	140	IE3
	63	10862	**23,44**	86865	1,2	**DR873-2G280S/4**	133,00	996		IE2
	84	8190	**17,67**	81356	1,3					
	96	7170	**15,45**	79700	1,5					
	109	6312	**13,58**	77978	1,6					

*: Geared motor prices are different for IE2 and IE3 motors.



Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
75 97	106 120 135 152 170 183 207 234 262	6575 5803 5153 4598 4120 3821 3372 2994 2672	**14,02** **12,36** **10,97** **9,78** **8,75** **8,12** **7,16** **6,35** **5,66**	79954 77998 76090 74232 72422 70338 68373 66500 64709	1,7 1,8 2,0 2,1 2,2 2,1 2,2 2,4 2,5	**DR872-3G280S/4** **DR872-2G280S/4**	133,00 133,00	967 967	140	IE3 IE2
90 117	57 65 73	14401 12714 11294	**25,92** **22,85** **20,27**	101336 99874 98262	1,2 1,4 1,5	**DR973-3G280M/4** **DR973-2G280M/4**	158,00 158,00	1355 1355	146	IE3 IE2
	89 101 113 125 149 168 188 210	9365 8319 7439 6688 5612 4985 4457 4007	**16,64** **14,77** **13,19** **11,85** **9,94** **8,82** **7,88** **7,08**	96996 94785 92638 90558 86096 83848 81715 79684	1,9 2,2 2,4 2,7 2,7 2,8 3,0 3,2	**DR972-3G280M/4** **DR972-2G280M/4**	158,00 158,00	1230 1230	146	IE3 IE2
	96 109	8605 7575	**15,45** **13,58**	76513 75203	1,2 1,3	**DR873-3G280M/4** **DR873-2G280M/4**	158,00 158,00	1056 1056	140	IE3 IE2
	106 120 135 152 170 183 207 234 262	7891 6964 6184 5518 4944 4585 4047 3593 3206	**14,02** **12,36** **10,97** **9,78** **8,75** **8,12** **7,16** **6,35** **5,66**	77431 75790 74144 72507 70885 68728 66962 65255 63604	1,4 1,5 1,6 1,7 1,8 1,7 1,8 2,0 2,1	**DR872-3G280M/4** **DR872-2G280M/4**	158,00 158,00	1027 1027	140	IE3 IE2
110 150	57 65 73	17577 15518 13786	**25,92** **22,85** **20,27**	94903 94271 93342	1,0 1,1 1,2	**DR973-3G315S/4** **DR973-2G315S/4**	194,00 194,00	1551 1474	146	IE3 IE2
	89 101 113 125 150 169 189 210	11431 10154 9079 8163 6850 6085 5441 4891	**16,64** **14,77** **13,19** **11,85** **9,94** **8,82** **7,88** **7,08**	93460 91668 89869 88082 83786 81809 79900 78059	1,6 1,8 2,0 2,2 2,2 2,3 2,5 2,6	**DR972-3G315S/4** **DR972-2G315S/4**	194,00 194,00	1426 1349	146	IE3 IE2
132 180	65 73	18623 16543	**22,85** **20,27**	87944 87804	0,9 1,0	**DR973-3G315M/4a** **DR973-2G315M/4a**	230,00 230,00	1572 1551	146	IE3 IE2
	89 101 113 125 150 169	13718 12185 10896 9796 8221 7302	**16,64** **14,77** **13,19** **11,85** **9,94** **8,82**	89520 88203 86799 85343 81230 79558	1,3 1,5 1,7 1,8 1,8 1,9	**DR972-3G315M/4a** **DR972-2G315M/4a**	230,00 230,00	1447 1426	146	IE3 IE2

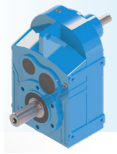
*: Geared motor prices are different for IE2 and IE3 motors.



DR / DN / DV - PERFORMANCE TABLES

Power P_g [kW] P_g [HP]	IE3 Output Speeds n_2 [r.p.m]	IE3 Output Torque M_2 [Nm]	Ratio i	IE3 Radial Loads (Output) F_{qam} [N]	IE3 Service Factors f_s	Type	Rated Current [A]	Weight ~ [kg]	Dim. Page	* Motor Eff. Class
132	189	6529	**7,88**	77903	2,1	**DR972-3G315M/4a**	230,00	1447	146	IE3
180	210	5870	**7,08**	76276	2,2	**DR972-2G315M/4a**	230,00	1426		IE2
160	89	16617	**16,64**	84381	1,1	**DR972-3G315M/4b**	275,00	1495	146	IE3
220	101	14761	**14,77**	83692	1,2	**DR972-2G315M/4b**	275,00	1450		IE2
	113	13199	**13,19**	82805	1,4					
	126	11866	**11,85**	81785	1,5					
	150	9959	**9,94**	77906	1,5					
	169	8846	**8,82**	76634	1,6					
	189	7910	**7,88**	75310	1,7					
	210	7111	**7,08**	73962	1,8					

*: Geared motor prices are different for IE2 and IE3 motors.

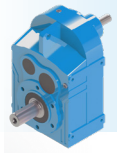


Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
150	5.77	251	**DT072**	8.1	**4.1**	2.7	2.1	1.3	1.0	115	-	8	256
150	6.91	210		6.8	**3.4**	2.2	1.7	1.1	0.86	312	-		
150	8.18	177		5.8	**2.9**	1.9	1.5	0.95	0.72	415	-		
150	8.76	166		5.4	**2.7**	1.8	1.4	0.89	0.68	461	-		
150	10.53	138		4.5	**2.3**	1.5	1.1	0.74	0.56	739	-		
150	12.61	115		3.7	**1.9**	1.2	0.95	0.62	0.47	873	-		
150	14.92	97		3.2	**1.6**	1.05	0.80	0.53	0.40	1006	-		
150	15.97	91		3.0	**1.5**	0.98	0.75	0.49	0.37	1062	-		
150	18.09	80		2.6	**1.3**	0.9	0.66	0.43	0.33	1168	-		
150	21.12	69		2.3	**1.1**	0.7	0.57	0.37	0.28	1306	-		
150	25.01	58		1.9	**0.96**	0.6	0.48	0.32	0.27	1465	-		
150	27.64	52		1.7	**0.87**	0.57	0.44	0.29	0.24	1563	-		
150	30.71	47		1.6	**0.78**	0.51	0.39	0.26	0.22	1670	-		
150	36.86	39		1.3	**0.65**	0.43	0.33	0.24	0.18	1865	-		
150	35.43	41	**DT073**	1.4	**0.69**	0.45	0.35	0.25	0.19	1821	604	9	256
150	38.18	38		1.3	**0.64**	0.42	0.32	0.23	0.18	1904	609		
150	44.60	33		1.1	**0.55**	0.36	0.28	0.20	0.15	2081	623		
150	52.62	28		0.93	**0.47**	0.31	0.26	0.17	0.13	2280	635		
150	62.94	23		0.78	**0.39**	0.26	0.22	0.14	0.11	2508	647		
150	67.62	21		0.72	**0.36**	0.27	0.20	0.13	0.10	2604	732		
150	72.87	20		0.67	**0.34**	0.25	0.19	0.12	0.09	2706	736		
150	85.12	17		0.58	**0.29**	0.21	0.16	0.11	0.08	2925	743		
150	100.43	14		0.50	**0.28**	0.18	0.14	0.09	0.07	3173	749		
150	120.11	12		0.42	**0.23**	0.15	0.12	0.08	0.06	3456	755		
150	133.46	11		0.38	**0.21**	0.14	0.11	0.07	0.05	3630	763		
150	146.60	10		0.35	**0.19**	0.13	0.10	0.06	0.05	3791	764		
150	180.05	8.1		0.28	**0.16**	0.10	0.08	0.05	0.04	4162	767		
145	4,86	298	**DT172**	7,4	**4,7**	3,5	2,8	2,1	1,6	2352	-	13	258
160	5,88	247		6,9	**4,3**	3,2	2,6	1,8	1,3	2418	-		
170	6,72	216		6,3	**4,0**	3,0	2,4	1,5	1,2	2484	-		
180	7,74	187		5,9	**3,7**	2,7	2,0	1,3	1,0	2575	-		
200	9,54	152		6,1	**3,3**	2,2	1,7	1,1	0,83	2964	-		
200	11,54	126		5,4	**2,7**	1,8	1,4	0,90	0,68	3346	-		
200	13,19	110		4,8	**2,4**	1,6	1,2	0,79	0,60	3630	-		
200	15,18	96		4,2	**2,1**	1,4	1,0	0,69	0,52	3943	-		
200	17,86	81		3,5	**1,8**	1,2	0,89	0,59	0,44	4322	-		
200	19,04	76		3,3	**1,7**	1,1	0,84	0,55	0,42	4477	-		
200	21,79	67		2,9	**1,5**	0,96	0,73	0,48	0,36	4816	-		
200	25,24	57		2,5	**1,3**	0,83	0,63	0,42	0,32	5202	-		
200	29,67	49		2,1	**1,1**	0,71	0,54	0,35	0,27	5500	-		
200	27,18	53	**DT173**	2,2	**1,2**	0,78	0,60	0,39	0,30	5404	509	14	258
200	31,52	46		2,0	**1,0**	0,67	0,52	0,34	0,26	5500	531		
200	37,75	38		1,7	**0,86**	0,57	0,43	0,28	0,24	5500	559		
200	44,66	32		1,4	**0,73**	0,48	0,37	0,27	0,20	5500	575		
200	47,81	30		1,4	**0,68**	0,45	0,34	0,25	0,19	5500	581		
200	51,88	28		1,2	**0,63**	0,41	0,32	0,23	0,17	5500	679		
200	60,16	24		1,1	**0,54**	0,36	0,27	0,20	0,15	5500	690		
200	72,04	20		0,90	**0,46**	0,30	0,25	0,17	0,13	5500	705		
200	85,23	17		0,77	**0,39**	0,25	0,22	0,14	0,11	5500	713		
200	91,25	16		0,72	**0,36**	0,26	0,20	0,13	0,10	5500	716		
200	103,34	14		0,64	**0,32**	0,23	0,18	0,12	0,09	5500	720		
200	120,64	12		0,55	**0,28**	0,20	0,15	0,10	0,08	5500	725		
200	142,89	10		0,47	**0,26**	0,17	0,13	0,09	0,07	5500	730		
275	4,98	291	**DT272**	14	**8,6**	6,4	5,2	4,0	3,3	9105	-	21	260
295	5,82	249		13	**8,0**	6,0	4,8	3,7	3,0	9478	-		
320	6,84	212		12	**7,3**	5,5	4,4	3,4	2,6	9865	-		
395	8,67	167		12	**7,2**	5,4	4,1	2,7	2,0	10462	-		
425	10,11	143		11	**6,6**	4,6	3,5	2,3	1,8	10872	-		



DT - PERFORMANCE TABLES

Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
450	11,90	122	**DT272**	10	**6,0**	3,9	3,0	2,0	1,5	11385	-	21	260
450	14,14	103		8,9	**5,0**	3,3	2,5	1,7	1,3	12000	-		
450	16,00	91		8,4	**4,4**	2,9	2,2	1,5	1,1	12000	-		
450	18,25	79		7,7	**3,9**	2,6	2,0	1,3	0,98	12000	-		
450	21,33	68		6,6	**3,3**	2,2	1,7	1,1	0,83	12000	-		
450	22,67	64		6,3	**3,1**	2,1	1,6	1,0	0,79	12000	-		
450	25,78	56		5,5	**2,8**	1,8	1,4	0,91	0,69	12000	-		
440	25,44	57	**DT273**	4,4	**2,8**	1,9	1,4	0,94	0,71	12350	189	22	260
450	30,34	48		3,9	**2,4**	1,6	1,2	0,79	0,60	12000	342		
450	36,38	40		3,5	**2,0**	1,3	1,0	0,66	0,50	12000	525		
450	42,22	34		3,0	**1,7**	1,1	0,86	0,57	0,43	12000	804		
450	50,36	29		2,7	**1,4**	0,95	0,72	0,48	0,36	12000	833		
450	60,39	24		2,4	**1,2**	0,79	0,61	0,40	0,30	12000	857		
450	73,03	20		2,0	**1,0**	0,66	0,50	0,33	0,25	12000	879		
450	83,46	17		1,7	**0,88**	0,58	0,44	0,29	0,24	12000	892		
450	96,09	15		1,5	**0,76**	0,50	0,38	0,25	0,21	12000	903		
450	113,02	13		1,3	**0,65**	0,43	0,33	0,24	0,18	12000	914		
450	120,49	12		1,2	**0,61**	0,40	0,31	0,22	0,17	12000	918		
450	137,94	11		1,1	**0,54**	0,35	0,27	0,20	0,15	12000	926		
450	150,45	9,6	**DT275**	1,0	**0,51**	0,33	0,25	0,18	0,14	12000	686	27	262
450	181,94	8,0		0,84	**0,42**	0,28	0,23	0,15	0,12	12000	718		
450	207,93	7,0		0,74	**0,37**	0,27	0,20	0,13	0,10	12000	737		
450	214,95	6,7		0,71	**0,36**	0,26	0,20	0,13	0,10	12000	735		
450	251,08	5,8		0,61	**0,31**	0,22	0,17	0,11	0,08	12000	742		
450	331,04	4,4		0,51	**0,26**	0,19	0,14	0,09	0,07	12000	789		
450	356,74	4,1		0,48	**0,24**	0,17	0,13	0,09	0,07	12000	788		
450	416,71	3,5		0,41	**0,20**	0,15	0,11	0,07	0,06	12000	793		
450	497,10	2,9		0,34	**0,17**	0,13	0,10	0,06	0,05	12000	805		
450	596,04	2,4		0,29	**0,14**	0,10	0,08	0,05	0,04	12000	816		
450	720,79	2,0		0,26	**0,12**	0,09	0,07	0,04	0,03	12000	825		
450	823,76	1,8		0,23	**0,10**	0,08	0,06	0,04	0,03	12000	831		
450	948,41	1,5		0,20	**0,09**	0,07	0,05	0,03	0,02	12000	836		
450	1115,51	1,3		0,17	**0,08**	0,06	0,04	0,03	0,02	12000	841		
450	1189,30	1,2		0,16	**0,07**	0,05	0,04	0,03	0,02	12000	843		
450	1215,13	1,2	**DT276**	0,16	**0,07**	0,05	0,04	0,03	0,02	12000	843	29	262
450	1456,98	1,0		0,13	**0,06**	0,04	0,03	0,02	0,02	12000	848		
450	1761,93	0,82		0,11	**0,05**	0,04	0,03	0,02	0,01	12000	851		
450	2013,64	0,72		0,10	**0,04**	0,03	0,02	0,02	0,01	12000	854		
450	2318,33	0,63		0,08	**0,04**	0,03	0,02	0,01	0,01	12000	856		
450	2726,80	0,53		0,07	**0,03**	0,02	0,02	0,01	0,01	12000	858		
450	2907,19	0,50		0,07	**0,03**	0,02	0,02	0,01	0,01	12000	858		
260	3,92	370	**DT282**	17	**10**	7,7	6,2	4,8	3,9	11041	-	31	264
280	4,52	321		16	**9,7**	7,3	5,8	4,5	3,6	11465	-		
300	5,22	278		15	**9,0**	6,8	5,5	4,2	3,4	11910	-		
315	5,74	253		14	**8,6**	6,5	5,2	4,0	3,3	12204	-		
340	6,65	218		13	**8,0**	6,0	4,9	3,7	3,0	12674	-		
380	7,09	205		14	**8,4**	6,3	5,1	3,9	3,2	12921	-		
410	8,19	177		13	**7,9**	5,9	4,8	3,6	2,9	13401	-		
440	9,45	153		12	**7,3**	5,5	4,4	3,3	2,5	13665	-		
460	10,38	140		11	**7,0**	5,2	4,2	3,0	2,3	13274	-		
490	12,03	121		10	**6,4**	4,8	3,9	2,6	2,0	12625	-		
525	14,06	103		10	**5,9**	4,4	3,4	2,2	1,7	11765	-		
565	16,62	87		8,7	**5,4**	3,7	2,9	1,9	1,4	10610	-		
590	18,73	77		8,1	**5,0**	3,3	2,5	1,7	1,3	9780	-		
600	21,28	68		7,5	**4,5**	2,9	2,2	1,5	1,1	9200	-		
600	24,79	58		6,8	**3,8**	2,5	1,9	1,3	0,96	9200	-		
600	29,85	49		6,0	**3,2**	2,1	1,6	1,1	0,80	9200	-		

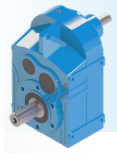


Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
590	30,28	48	**DT283**	4,9	**3,1**	2,1	1,6	1,1	0,80	9780	1309	32	264
600	35,35	41		4,5	**2,7**	1,8	1,4	0,90	0,69	9200	1340		
600	41,23	35		4,0	**2,3**	1,5	1,2	0,77	0,59	9200	1379		
600	45,56	32		3,8	**2,1**	1,4	1,1	0,70	0,53	9200	1398		
600	53,18	27		3,4	**1,8**	1,2	0,92	0,60	0,46	9200	1424		
600	62,55	23		3,1	**1,6**	1,0	0,78	0,51	0,39	9200	1447		
600	74,36	19		2,6	**1,3**	0,86	0,66	0,43	0,33	9200	1468		
600	84,12	17		2,3	**1,2**	0,76	0,58	0,38	0,29	9200	1481		
600	95,92	15		2,0	**1,0**	0,67	0,51	0,34	0,26	9200	1492		
600	112,15	13		1,7	**0,87**	0,57	0,44	0,29	0,24	9200	1505		
600	119,16	12		1,6	**0,82**	0,54	0,41	0,27	0,23	9200	1509		
600	135,52	11		1,4	**0,73**	0,48	0,37	0,27	0,20	9200	1517		
600	127,94	11	**DT285**	1,6	**0,79**	0,52	0,39	0,26	0,22	9200	582	35	266
600	137,88	11		1,5	**0,73**	0,48	0,37	0,27	0,20	9200	590		
600	161,05	9,0		1,3	**0,63**	0,41	0,31	0,23	0,17	9200	606		
600	196,84	7,4		1,0	**0,52**	0,34	0,26	0,19	0,14	9200	683		
600	212,12	6,8		0,96	**0,48**	0,31	0,27	0,17	0,13	9200	688		
600	244,26	5,9		0,83	**0,42**	0,27	0,23	0,15	0,12	9200	719		
600	263,22	5,5		0,77	**0,39**	0,25	0,22	0,14	0,11	9200	723		
600	277,21	5,2		0,73	**0,37**	0,27	0,20	0,13	0,10	9200	737		
600	298,73	4,9		0,68	**0,34**	0,25	0,19	0,12	0,09	9200	741		
600	348,95	4,2		0,59	**0,29**	0,21	0,16	0,11	0,08	9200	748		
600	406,99	3,6		0,50	**0,25**	0,18	0,14	0,09	0,07	9200	765		
600	449,72	3,2		0,50	**0,25**	0,18	0,14	0,09	0,07	9200	775		
600	524,87	2,8		0,43	**0,22**	0,16	0,12	0,08	0,06	9200	788		
600	617,37	2,3		0,37	**0,18**	0,13	0,10	0,07	0,05	9200	801		
600	733,99	2,0		0,31	**0,15**	0,11	0,09	0,06	0,04	9200	812		
600	830,25	1,7		0,27	**0,14**	0,10	0,08	0,05	0,04	9200	818		
600	936,69	1,5		0,27	**0,12**	0,09	0,07	0,04	0,03	9200	824		
600	1003,22	1,4	**DT286**	0,26	**0,12**	0,08	0,06	0,04	0,03	9200	827	36	266
600	1170,08	1,2		0,22	**0,10**	0,07	0,06	0,04	0,03	9200	833		
600	1292,94	1,1		0,20	**0,09**	0,07	0,05	0,03	0,02	9200	837		
600	1509,00	0,96		0,17	**0,08**	0,06	0,04	0,03	0,02	9200	841		
600	1774,93	0,82		0,15	**0,07**	0,05	0,04	0,02	0,02	9200	845		
600	2110,22	0,69		0,12	**0,06**	0,04	0,03	0,02	0,02	9200	849		
600	2386,97	0,61		0,11	**0,05**	0,04	0,03	0,02	0,01	9200	852		
600	2692,99	0,54		0,10	**0,04**	0,03	0,02	0,02	0,01	9200	854		
600	3368,37	0,43		0,08	**0,03**	0,03	0,02	0,01	0,01	9200	853		
600	3800,21	0,38		0,07	**0,03**	0,02	0,02	0,01	0,01	9200	855		
390	3,65	397	**DT372**	-	**17**	12	10	7,8	6,3	10152	-	65	268
435	4,42	328		25	**15**	11	9,3	7,1	5,8	10601	-		
465	5,05	287		23	**14**	10	8,7	6,7	5,4	10944	-		
495	5,79	250		22	**13**	10	8,2	6,2	5,1	11333	-		
530	6,69	217		20	**12**	9,3	7,5	5,8	4,7	11745	-		
640	7,42	195		-	**14**	10	8,2	5,7	4,3	12029	-		
700	8,98	161		20	**12**	9,2	7,2	4,7	3,6	12606	-		
745	10,25	141		19	**11**	8,3	6,3	4,1	3,1	13016	-		
795	11,77	123		17	**11**	7,2	5,5	3,6	2,7	12881	-		
820	13,60	107		16	**9,5**	6,2	4,8	3,1	2,4	11800	-		
820	14,74	98		15	**8,8**	5,8	4,4	2,9	2,2	11800	-		
820	17,65	82		14	**7,3**	4,8	3,7	2,4	1,8	11800	-		
820	20,10	72		13	**6,4**	4,2	3,2	2,1	1,6	11800	-		
820	22,46	65		11	**5,8**	3,8	2,9	1,9	1,4	11800	-		
820	25,42	57		10	**5,1**	3,4	2,6	1,7	1,3	11800	-		
645	23,58	61	**DT373**	6,8	**4,4**	3,3	2,8	1,8	1,4	16231	1104	67	268
680	27,53	53		6,2	**3,9**	3,0	2,4	1,6	1,2	15571	1123		
720	32,11	45		5,6	**3,6**	2,7	2,1	1,4	1,0	14739	1142		
745	35,49	41		5,3	**3,4**	2,4	1,9	1,2	0,93	14167	1149		

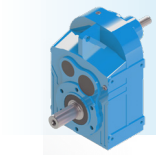


DT - PERFORMANCE TABLES

Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
785	41,42	35	**DT373**	4,8	**3,0**	2,1	1,6	1,0	0,80	13155	1157	67	268
820	52,30	28		4,0	**2,5**	1,7	1,3	0,83	0,63	11800	1343		
820	57,79	25		3,7	**2,3**	1,5	1,1	0,76	0,57	11800	1364		
820	67,45	21		3,4	**2,0**	1,3	1,0	0,65	0,49	11800	1392		
820	79,34	18		3,1	**1,7**	1,1	0,84	0,55	0,42	11800	1417		
820	94,32	15		2,7	**1,4**	0,93	0,71	0,47	0,35	11800	1440		
820	106,69	14		2,5	**1,2**	0,82	0,63	0,41	0,31	11800	1453		
820	121,67	12		2,2	**1,1**	0,72	0,55	0,36	0,28	11800	1466		
820	151,15	9,6		1,8	**0,89**	0,58	0,45	0,29	0,25	11800	1484		
820	171,89	8,4		1,6	**0,78**	0,51	0,39	0,26	0,22	11800	1492		
820	174,88	8,3	**DT375**	1,6	**0,79**	0,52	0,40	0,26	0,22	11800	569	75	270
820	204,28	7,1		1,4	**0,68**	0,45	0,34	0,25	0,19	11800	585		
820	249,67	5,8		1,1	**0,56**	0,37	0,28	0,20	0,15	11800	668		
820	269,05	5,4		1,0	**0,52**	0,34	0,26	0,19	0,14	11800	674		
820	309,82	4,7		0,90	**0,45**	0,30	0,25	0,16	0,12	11800	707		
820	333,87	4,3		0,84	**0,42**	0,27	0,23	0,15	0,12	11800	712		
820	351,62	4,1		0,79	**0,40**	0,26	0,22	0,14	0,11	11800	726		
820	378,91	3,8		0,74	**0,37**	0,27	0,20	0,13	0,10	11800	731		
820	442,60	3,3		0,63	**0,32**	0,23	0,18	0,12	0,09	11800	738		
820	516,22	2,8		0,54	**0,27**	0,20	0,15	0,10	0,07	11800	757		
820	570,43	2,5		0,54	**0,27**	0,20	0,15	0,10	0,08	11800	768		
820	665,75	2,2		0,47	**0,23**	0,17	0,13	0,09	0,06	11800	782		
820	783,07	1,9		0,40	**0,20**	0,14	0,11	0,07	0,05	11800	795		
820	930,99	1,6		0,33	**0,17**	0,12	0,09	0,06	0,05	11800	807		
820	1053,09	1,4		0,30	**0,15**	0,11	0,08	0,05	0,04	11800	814		
820	1188,10	1,2		0,26	**0,13**	0,10	0,07	0,05	0,04	11800	821		
820	1272,49	1,1	**DT376**	0,25	**0,13**	0,09	0,07	0,05	0,03	11800	824	76	270
820	1484,14	0,98		0,24	**0,11**	0,08	0,06	0,04	0,03	11800	830		
820	1639,97	0,88		0,22	**0,10**	0,07	0,05	0,04	0,03	11800	834		
820	1914,03	0,76		0,19	**0,08**	0,06	0,05	0,03	0,02	11800	839		
820	2251,32	0,64		0,16	**0,07**	0,05	0,04	0,03	0,02	11800	844		
820	2676,61	0,54		0,13	**0,06**	0,04	0,03	0,02	0,02	11800	848		
820	3027,64	0,48		0,12	**0,05**	0,04	0,03	0,02	0,01	11800	850		
820	3415,80	0,42		0,10	**0,05**	0,03	0,03	0,02	0,01	11800	852		
820	4272,46	0,34		0,08	**0,04**	0,03	0,02	0,01	0,01	11800	852		
820	4820,21	0,30		0,07	**0,03**	0,02	0,02	0,01	0,01	11800	854		
915	4,48	324	**DT472**	-	**32**	24	19	15	12	12929	-	103	272
990	5,26	276		-	**29**	22	17	13	11	13406	-		
1070	6,23	233		44	**27**	20	16	12	9,8	13945	-		
1130	6,71	216		43	**26**	20	16	11	9,1	14063	-		
1190	7,54	192		40	**25**	19	15	10	8,1	14464	-		
1445	8,93	162		-	**25**	18	14	9,0	6,8	15180	-		
1550	10,48	138		-	**23**	15	12	7,7	5,8	15771	-		
1550	12,40	117		34	**20**	13	10	6,5	4,9	16967	-		
1550	13,35	109		33	**18**	12	9,1	6,0	4,6	17000	-		
1550	15,02	97		31	**16**	11	8,1	5,3	4,1	17000	-		
1550	17,01	85		29	**14**	9,4	7,2	4,7	3,6	17000	-		
1550	19,11	76		25	**13**	8,4	6,4	4,2	3,2	17000	-		
1550	20,74	70		23	**12**	7,7	5,9	3,9	2,9	17000	-		
1550	24,54	59		20	**10**	6,5	5,0	3,3	2,5	17000	-		
1130	28,45	51	**DT473**	-	**6,2**	4,7	3,8	2,8	2,1	24931	1446	104	272
1210	34,28	42		-	**5,5**	4,2	3,4	2,3	1,8	23821	1467		
1290	41,50	35		7,8	**4,9**	3,7	3,0	1,9	1,5	22575	1486		
1350	47,37	31		7,1	**4,5**	3,4	2,6	1,7	1,3	21538	1494		
1410	54,35	27		6,5	**4,1**	3,0	2,3	1,5	1,1	20396	1502		
1440	61,85	23		5,8	**3,7**	2,6	2,0	1,3	0,99	19781	1671		
1500	70,59	21		5,3	**3,4**	2,3	1,7	1,1	0,87	18448	1679		
1550	81,00	18		4,9	**3,0**	2,0	1,5	1,0	0,76	17000	1691		

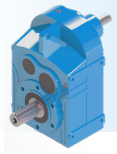


Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
1550	95,87	15	**DT473**	4,4	**2,6**	1,7	1,3	0,84	0,64	17000	1724	104	272
1550	101,48	14		4,2	**2,4**	1,6	1,2	0,80	0,61	17000	1733		
1550	121,49	12		3,8	**2,0**	1,3	1,0	0,67	0,51	17000	1759		
1550	138,35	10		3,4	**1,8**	1,2	0,90	0,59	0,45	17000	1775		
1550	154,63	9,4		3,2	**1,6**	1,1	0,80	0,53	0,40	17000	1790		
1550	174,97	8,3		2,8	**1,4**	0,93	0,71	0,47	0,36	17000	1801		
1550	215,03	6,7		2,3	**1,2**	0,76	0,58	0,38	0,29	17000	1817		
1550	242,68	6,0		2,1	**1,0**	0,68	0,52	0,34	0,26	17000	1824		
1550	219,13	6,6	**DT474**	2,3	**1,2**	0,76	0,58	0,38	0,29	17000	1506	114	274
1550	252,29	5,7		2,0	**1,0**	0,66	0,51	0,33	0,25	17000	1521		
1550	296,74	4,9		1,7	**0,86**	0,56	0,43	0,28	0,24	17000	1534		
1550	316,37	4,6		1,6	**0,81**	0,53	0,40	0,26	0,22	17000	1539		
1550	362,17	4,0		1,4	**0,71**	0,46	0,35	0,26	0,20	17000	1549		
1550	383,35	3,8		1,3	**0,67**	0,44	0,33	0,24	0,18	17000	1564		
1550	458,98	3,2		1,1	**0,56**	0,37	0,28	0,20	0,15	17000	1606		
1550	522,66	2,8		0,98	**0,49**	0,32	0,27	0,18	0,14	17000	1633		
1550	584,15	2,5		0,88	**0,44**	0,29	0,24	0,16	0,12	17000	1653		
1550	648,55	2,2	**DT475**	0,81	**0,41**	0,27	0,23	0,15	0,11	17000	760	116	276
1550	752,10	1,9		0,70	**0,35**	0,25	0,19	0,13	0,10	17000	767		
1550	900,55	1,6		0,59	**0,29**	0,21	0,16	0,11	0,08	17000	775		
1550	1065,48	1,4		0,55	**0,28**	0,20	0,15	0,10	0,08	17000	780		
1550	1140,69	1,3		0,51	**0,26**	0,19	0,14	0,09	0,07	17000	782		
1550	1492,69	1,0		0,39	**0,20**	0,14	0,11	0,07	0,05	17000	796		
1550	1529,03	0,95		0,38	**0,19**	0,14	0,11	0,07	0,05	17000	798		
1550	1618,43	0,90		0,36	**0,18**	0,13	0,10	0,07	0,05	17000	802		
1550	1937,71	0,75		0,30	**0,15**	0,11	0,08	0,06	0,04	17000	813		
1550	2381,67	0,61	**DT476**	0,25	**0,13**	0,09	0,07	0,05	0,03	17000	837	118	276
1550	2851,73	0,51		0,23	**0,11**	0,08	0,06	0,04	0,03	17000	840		
1550	3374,03	0,43		0,20	**0,09**	0,06	0,05	0,03	0,02	17000	841		
1550	3612,19	0,40		0,19	**0,08**	0,06	0,05	0,03	0,02	17000	842		
1550	4726,85	0,31		0,14	**0,06**	0,05	0,04	0,02	0,02	17000	846		
1550	4841,94	0,30		0,14	**0,06**	0,05	0,03	0,02	0,02	17000	847		
1550	5125,04	0,28		0,13	**0,06**	0,04	0,03	0,02	0,02	17000	848		
1550	6136,10	0,24		0,11	**0,05**	0,04	0,03	0,02	0,01	17000	852		
1470	4,38	331	**DT572**	-	**52**	39	32	24	20	22142	-	150	278
1570	4,96	292		-	**49**	37	30	23	19	22799	-		
1670	5,64	257		-	**46**	35	28	21	17	23536	-		
1780	6,45	225		-	**43**	32	26	20	16	24330	-		
1900	7,43	195		-	**40**	30	24	18	15	25207	-		
2030	8,65	168		60	**37**	28	22	17	14	26199	-		
2560	10,45	139		-	**38**	29	23	15	11	27328	-		
2710	11,89	122		-	**36**	26	20	13	9,9	28223	-		
2870	13,60	107		-	**33**	23	17	11	8,7	25802	-		
3000	15,67	93		-	**30**	20	15	9,9	7,5	22500	-		
3000	18,23	80		45	**26**	17	13	8,5	6,5	22500	-		
3000	21,40	68		41	**22**	14	11	7,3	5,5	22500	-		
3000	24,02	60		38	**20**	13	10	6,5	4,9	22500	-		
3000	28,87	50		33	**16**	11	8,2	5,4	4,1	22500	-		
3000	33,86	43		28	**14**	9,2	7,0	4,6	3,5	22500	-		
2600	28,39	51	**DT573**	-	**14**	10	8,3	5,5	4,1	31019	-	153	278
2750	33,28	44		-	**13**	9,3	7,1	4,7	3,5	28304	-		
2910	39,35	37		18	**12**	7,9	6,0	4,0	3,0	24887	-		
3000	44,27	33		17	**11**	7,0	5,4	3,5	2,7	22500	-		
3000	50,13	29		16	**9,4**	6,2	4,7	3,1	2,4	22500	-		
3000	61,12	24		14	**7,7**	5,1	3,9	2,6	1,9	22500	-		
3000	68,64	21		-	**6,9**	4,5	3,4	2,3	1,7	22500	1566		

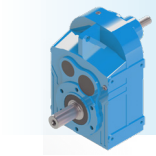


DT - PERFORMANCE TABLES

Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
3000	81,15	18	**DT573**	11	**5,8**	3,8	2,9	1,9	1,5	22500	1630	153	278
3000	91,30	16		10	**5,2**	3,4	2,6	1,7	1,3	22500	1669		
3000	103,39	14		9,1	**4,6**	3,0	2,3	1,5	1,1	22500	1705		
3000	126,06	12		7,5	**3,8**	2,5	1,9	1,2	0,94	22500	1752		
3000	149,15	9,7		6,4	**3,2**	2,1	1,6	1,1	0,80	22500	1786		
3000	168,60	8,6		5,6	**2,8**	1,9	1,4	0,93	0,71	22500	1807		
3000	192,62	7,5		5,0	**2,5**	1,6	1,2	0,82	0,62	22500	1827		
3000	209,81	6,9		4,5	**2,3**	1,5	1,1	0,75	0,57	22500	1840		
3000	255,83	5,7		3,7	**1,9**	1,2	0,95	0,62	0,47	22500	1862		
3000	230,64	6,3	**DT574**	4,3	**2,1**	1,4	1,0	0,70	0,53	22500	1796	163	280
3000	274,21	5,3		3,6	**1,8**	1,2	0,90	0,59	0,45	22500	1821		
3000	310,17	4,7		3,2	**1,6**	1,0	0,80	0,52	0,40	22500	1836		
3000	353,70	4,1		2,8	**1,4**	0,92	0,70	0,46	0,35	22500	1851		
3000	413,56	3,5		2,4	**1,2**	0,79	0,60	0,39	0,30	22500	1865		
3000	499,72	2,9		2,0	**1,0**	0,65	0,50	0,33	0,27	22500	1881		
3000	609,29	2,4		1,6	**0,82**	0,53	0,41	0,27	0,23	22500	1944		
3000	720,91	2,0		1,4	**0,69**	0,45	0,35	0,25	0,19	22500	1989		
3000	868,61	1,7	**DT575**	1,2	**0,59**	0,38	0,29	0,21	0,16	22500	1707	165	282
3000	1041,50	1,4		0,98	**0,49**	0,32	0,27	0,18	0,13	22500	1716		
3000	1259,48	1,2		0,81	**0,41**	0,27	0,23	0,15	0,11	22500	1724		
3000	1439,41	1,0		0,71	**0,36**	0,26	0,20	0,13	0,10	22500	1728		
3000	1657,21	0,87		0,62	**0,31**	0,23	0,17	0,11	0,09	22500	1733		
3000	1949,20	0,74		0,53	**0,26**	0,19	0,15	0,10	0,07	22500	1737		
3000	2078,15	0,70		0,55	**0,27**	0,20	0,15	0,10	0,08	22500	1738		
3000	2379,02	0,61		0,48	**0,24**	0,17	0,13	0,09	0,07	22500	1741		
3000	2900,65	0,50		0,39	**0,20**	0,14	0,11	0,07	0,05	22500	1756		
3000	3432,03	0,42		0,33	**0,17**	0,12	0,09	0,06	0,05	22500	1766		
3000	3723,69	0,39	**DT576**	0,31	**0,16**	0,11	0,09	0,06	0,04	22500	1788	167	282
3000	4255,64	0,34		0,27	**0,14**	0,10	0,08	0,05	0,04	22500	1790		
3000	4899,59	0,30		0,26	**0,12**	0,09	0,07	0,04	0,03	22500	1791		
3000	5762,85	0,25		0,22	**0,10**	0,07	0,06	0,04	0,03	22500	1793		
3000	6144,09	0,24		0,21	**0,09**	0,07	0,05	0,03	0,03	22500	1793		
3000	7033,63	0,21		0,18	**0,08**	0,06	0,05	0,03	0,02	22500	1794		
3000	8575,84	0,17		0,15	**0,07**	0,05	0,04	0,02	0,02	22500	1799		
3000	10146,88	0,14		0,13	**0,06**	0,04	0,03	0,02	0,02	22500	1803		
2200	4,28	339	**DT672**	-	**80**	60	48	37	30	31593	-	201	284
2370	4,92	295		-	**75**	56	45	35	28	32632	-		
2550	5,68	255		-	**70**	52	42	32	26	33765	-		
2580	5,89	246		-	**68**	51	41	31	26	34127	-		
2730	6,61	219		-	**64**	48	39	30	24	35083	-		
2880	7,45	195		-	**60**	45	37	28	23	36165	-		
3300	7,75	187		-	**66**	50	40	29	22	36215	-		
3540	8,91	163		-	**62**	46	38	25	19	37392	-		
3790	10,29	141		-	**58**	43	33	22	16	38694	-		
3830	10,67	136		-	**56**	41	32	21	16	38291	-		
4030	11,96	121		-	**53**	37	28	19	14	35135	-		
4250	13,48	108		-	**49**	33	25	16	13	31078	-		
4300	15,30	95		-	**44**	29	22	15	11	29600	-		
4300	17,49	83		-	**39**	25	19	13	9,7	29600	-		
4300	20,20	72		63	**33**	22	17	11	8,4	29600	-		
4300	23,36	62		57	**29**	19	15	9,5	7,2	29600	-		
4300	26,11	56		52	**26**	17	13	8,5	6,5	29600	-		
4300	30,04	48	**DT673**	-	**22**	15	11	7,4	5,6	29600	370	204	284
4300	34,02	43		-	**20**	13	10	6,5	5,0	29600	849		
4300	38,70	37		-	**17**	11	8,7	5,7	4,4	29600	1284		
4300	44,27	33		-	**15**	10	7,7	5,0	3,8	29600	1681		

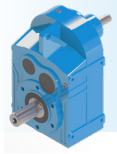


Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
4300	51,01	28	**DT673**	-	**13**	8,7	6,7	4,4	3,3	29600	2043	204	284
4300	59,34	24		23	**11**	7,5	5,7	3,8	2,9	29600	2374		
4300	60,82	24		-	**11**	7,3	5,6	3,7	2,8	29600	3134		
4300	69,18	21		-	**9,8**	6,4	4,9	3,2	2,4	29600	3197		
4300	79,14	18		-	**8,5**	5,6	4,3	2,8	2,1	29600	3254		
4300	91,19	16		-	**7,4**	4,9	3,7	2,5	1,9	29600	3305		
4300	106,08	14		13	**6,4**	4,2	3,2	2,1	1,6	29600	3353		
4300	124,53	12		11	**5,5**	3,6	2,7	1,8	1,4	29600	3414		
4300	139,76	10		9,7	**4,9**	3,2	2,4	1,6	1,2	29600	3440		
4300	167,96	8,6		8,1	**4,1**	2,7	2,0	1,3	1,0	29600	3473		
4300	197,01	7,4		6,9	**3,5**	2,3	1,7	1,1	0,87	29600	3499		
4300	221,47	6,5		6,2	**3,1**	2,0	1,6	1,0	0,77	29600	3515		
4300	236,65	6,1	**DT674**	6,0	**3,0**	2,0	1,5	0,98	0,74	29600	1622	214	286
4300	281,35	5,2		5,0	**2,5**	1,7	1,3	0,83	0,63	29600	1657		
4300	318,25	4,6		4,5	**2,2**	1,5	1,1	0,73	0,55	29600	1679		
4300	362,91	4,0		3,9	**2,0**	1,3	1,0	0,64	0,49	29600	1699		
4300	424,33	3,4		3,4	**1,7**	1,1	0,84	0,55	0,42	29600	1720		
4300	512,73	2,8		2,8	**1,4**	0,91	0,70	0,46	0,35	29600	1741		
4300	601,90	2,4		2,4	**1,2**	0,78	0,59	0,39	0,29	29600	1814		
4300	675,51	2,1		2,1	**1,1**	0,69	0,53	0,35	0,26	29600	1859		
4300	747,10	1,9	**DT675**	1,9	**0,97**	0,64	0,49	0,32	0,27	29600	1647	216	288
4300	891,23	1,6		1,6	**0,82**	0,54	0,41	0,27	0,23	29600	1662		
4300	1068,62	1,4		1,4	**0,68**	0,45	0,34	0,25	0,19	29600	1674		
4300	1292,28	1,1		1,1	**0,57**	0,37	0,28	0,21	0,16	29600	1685		
4300	1476,89	0,98		0,99	**0,50**	0,33	0,28	0,18	0,14	29600	1692		
4300	1700,37	0,85		0,87	**0,43**	0,28	0,24	0,16	0,12	29600	1698		
4300	1999,96	0,73		0,74	**0,37**	0,27	0,20	0,13	0,10	29600	1703		
4300	2132,27	0,68		0,69	**0,35**	0,25	0,19	0,13	0,10	29600	1705		
4300	2440,98	0,59		0,60	**0,30**	0,22	0,17	0,11	0,08	29600	1709		
4300	2865,49	0,51		0,51	**0,26**	0,19	0,14	0,09	0,07	29600	1726		
4300	3215,89	0,45		0,51	**0,25**	0,19	0,14	0,09	0,07	29600	1736		
4300	3820,66	0,38	**DT676**	0,44	**0,22**	0,16	0,12	0,08	0,06	29600	1775	218	288
4300	4366,47	0,33		0,38	**0,19**	0,14	0,11	0,07	0,05	29600	1777		
4300	5027,18	0,29		0,33	**0,17**	0,12	0,09	0,06	0,05	29600	1780		
4300	5912,93	0,25		0,28	**0,14**	0,10	0,08	0,05	0,04	29600	1781		
4300	6304,09	0,23		0,27	**0,13**	0,10	0,07	0,05	0,04	29600	1782		
4300	7216,80	0,20		0,26	**0,12**	0,08	0,06	0,04	0,03	29600	1783		
4300	8471,90	0,17		0,22	**0,10**	0,07	0,05	0,04	0,03	29600	1789		
4300	9507,85	0,15		0,20	**0,09**	0,06	0,05	0,03	0,02	29600	1793		
3800	4,47	325	**DT772**	-	**132**	100	80	61	50	30034	-	275	290
4080	5,06	287		-	**125**	94	76	58	47	30748	-		
4350	5,75	252		-	**118**	88	71	54	44	31612	-		
4630	6,58	220		-	**110**	82	66	51	41	32592	-		
4770	6,97	208		-	**107**	80	64	49	40	32969	-		
5010	7,76	187		-	**101**	75	61	46	37	33787	-		
5260	8,70	167		-	**94**	71	57	44	36	34710	-		
6050	9,00	161		-	**105**	79	63	46	35	34844	-		
6420	10,23	142		-	**98**	73	59	40	31	35845	-		
6820	11,71	124		-	**91**	68	54	35	27	36936	-		
7000	12,40	117		-	**88**	66	51	33	25	37404	-		
7330	13,81	105		-	**83**	60	46	30	23	38349	-		
7680	15,46	94		-	**78**	53	41	27	20	39400	-		
8000	17,44	83		-	**72**	47	36	24	18	40735	-		
8000	19,82	73		-	**63**	42	32	21	16	43221	-		
8000	22,77	64		100	**55**	36	28	18	14	46018	-		
5560	17.95	81	**DT773**	-	**48**	36	29	22	17	46247	-	276	290



DT - PERFORMANCE TABLES

Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
5620	18.61	78	**DT773**	-	**47**	35	28	22	17	46758	-	276	290
5820	20.87	69		-	**43**	33	26	20	15	48384	-		
8000	24,06	60		-	**52**	34	26	17	13	47165	-		
8000	27,65	52		-	**45**	30	23	15	11	50137	-		
8000	31,92	45		-	**39**	26	20	13	9,8	53342	-		
8000	33,10	44		-	**38**	25	19	12	9,5	54175	-		
8000	37,12	39		-	**34**	22	17	11	8,4	55500	-		
8000	41,85	35		-	**30**	20	15	9,9	7,5	55500	-		
8000	46,99	31		-	**27**	17	13	8,8	6,7	55500	2038		
8000	53,99	27		-	**23**	15	12	7,6	5,8	55500	2582		
8000	62,33	23		-	**20**	13	10	6,6	5,0	55500	3029		
8000	64,64	22		-	**19**	13	10	6,4	4,8	55500	3039		
8000	72,50	20		-	**17**	11	8,7	5,7	4,3	55500	3122		
8000	81,72	18		-	**15**	10	7,7	5,1	3,8	55500	3199		
8000	92,70	16		-	**14**	8,9	6,8	4,5	3,4	55500	3270		
8000	105,99	14		-	**12**	7,8	6,0	3,9	3,0	55500	3335		
8000	122,41	12		21	**10**	6,8	5,2	3,4	2,6	55500	3396		
8000	141,55	10		18	**8,9**	5,9	4,5	2,9	2,2	55500	3469		
8000	158,23	9,2		16	**8,0**	5,2	4,0	2,6	2,0	55500	3504		
8000	190,20	7,6		13	**6,6**	4,4	3,3	2,2	1,7	55500	3555		
8000	222,16	6,5		11	**5,7**	3,7	2,9	1,9	1,4	55500	3590		
8000	223,53	6,5	**DT774**	12	**5,9**	3,9	2,9	1,9	1,5	55500	1646	288	292
8000	256,48	5,7		10	**5,1**	3,4	2,6	1,7	1,3	55500	1697		
8000	296,36	4,9		8,9	**4,5**	2,9	2,2	1,5	1,1	55500	1743		
8000	321,33	4,5		8,2	**4,1**	2,7	2,1	1,3	1,0	55500	1769		
8000	384,72	3,8		6,9	**3,4**	2,3	1,7	1,1	0,85	55500	1814		
8000	438,10	3,3		6,0	**3,0**	2,0	1,5	0,99	0,75	55500	1842		
8000	489,64	3,0		5,4	**2,7**	1,8	1,4	0,89	0,67	55500	1867		
8000	566,21	2,6		4,7	**2,3**	1,5	1,2	0,77	0,58	55500	1966		
8000	632,92	2,3		4,2	**2,1**	1,4	1,0	0,69	0,52	55500	2033		
8000	730,48	2,0	**DT775**	3,7	**1,9**	1,2	0,93	0,61	0,46	55500	1898	291	294
8000	874,59	1,7		3,1	**1,6**	1,0	0,78	0,51	0,39	55500	1916		
8000	995,95	1,5		2,7	**1,4**	0,90	0,68	0,45	0,34	55500	1928		
8000	1105,59	1,3		2,5	**1,2**	0,80	0,61	0,40	0,30	55500	2011		
8000	1323,71	1,1		2,1	**1,0**	0,67	0,51	0,34	0,26	55500	2024		
8000	1507,38	0,96		1,8	**0,90**	0,59	0,45	0,30	0,25	55500	2031		
8000	1656,07	0,88		1,6	**0,82**	0,54	0,41	0,27	0,23	55500	2085		
8000	1982,78	0,73		1,4	**0,69**	0,45	0,34	0,25	0,19	55500	2093		
8000	2257,90	0,64		1,2	**0,61**	0,40	0,30	0,22	0,17	55500	2098		
8000	2523,53	0,57		1,1	**0,54**	0,35	0,27	0,20	0,15	55500	2103		
8000	2855,58	0,51		0,96	**0,48**	0,31	0,27	0,17	0,13	55500	2106		
8000	3302,14	0,44		0,83	**0,41**	0,27	0,23	0,15	0,11	55500	2123		
8000	3691,20	0,39		0,74	**0,37**	0,27	0,21	0,13	0,10	55500	2135		
8000	3922,75	0,37	**DT776**	0,71	**0,36**	0,26	0,20	0,13	0,10	55500	2179	293	294
8000	4334,63	0,33		0,64	**0,32**	0,23	0,18	0,12	0,09	55500	2181		
8000	5058,99	0,29		0,55	**0,28**	0,20	0,15	0,10	0,08	55500	2184		
8000	5875,88	0,25		0,53	**0,26**	0,19	0,15	0,10	0,07	55500	2197		
8000	6492,84	0,22		0,48	**0,24**	0,17	0,13	0,09	0,07	55500	2198		
8000	7577,86	0,19		0,41	**0,21**	0,15	0,11	0,07	0,06	55500	2200		
8000	8913,25	0,16		0,35	**0,17**	0,13	0,10	0,06	0,05	55500	2202		
8000	10597,02	0,14		0,29	**0,15**	0,11	0,08	0,05	0,04	55500	2204		
8000	11986,79	0,12		0,26	**0,13**	0,10	0,07	0,05	0,04	55500	2205		
8000	13669,15	0,11		0,25	**0,11**	0,08	0,06	0,04	0,03	55500	2206		
8000	16981,28	0,09		0,21	**0,09**	0,07	0,05	0,03	0,03	55500	2207		
8000	19312,05	0,08		0,18	**0,08**	0,06	0,05	0,03	0,02	55500	2208		
8000	22332,10	0,06		0,16	**0,07**	0,05	0,04	0,03	0,02	55500	2211		
8000	24963,27	0,06		0,14	**0,06**	0,05	0,03	0,02	0,02	55500	2214		
6660	5,66	256	**DT872**	-	**183**	137	110	84	69	24062	-	390	296

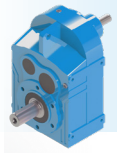


Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
7040	6,35	228	**DT872**	-	**172**	129	104	80	65	28406	-	390	296
7440	7,16	202		-	**162**	121	98	75	61	33157	-		
7870	8,12	179		-	**151**	113	91	70	57	38380	-		
9130	8,75	166		-	**162**	122	98	75	58	41694	-		
9610	9,78	148		-	**153**	115	93	68	52	46426	-		
10120	10,97	132		-	**144**	108	87	61	46	51518	-		
10660	12,36	117		-	**135**	101	81	54	41	57074	-		
11250	14,02	103		-	**125**	94	73	48	36	63142	-		
10150	13,58	107	**DT873**	-	**116**	87	70	49	37	60141	-	394	296
10550	15,45	94		-	**106**	80	64	43	33	66375	-		
11000	17,67	82		-	**97**	73	58	38	29	69064	-		
13000	23,44	62		-	**86**	57	43	29	22	76000	-		
13000	26,66	54		-	**76**	50	38	25	19	76000	-		
13000	30,50	48		-	**67**	44	33	22	17	76000	-		
13000	35,24	41		-	**57**	38	29	19	14	76000	-		
13000	39,92	36		-	**51**	33	26	17	13	76000	1134		
13000	45,41	32		-	**45**	29	22	15	11	76000	1938		
13000	51,94	28		-	**39**	26	20	13	9,8	76000	2678		
13000	55,01	26		-	**37**	24	19	12	9,3	76000	3038		
13000	61,27	24		-	**33**	22	17	11	8,3	76000	3530		
13000	68,62	21		-	**30**	19	15	9,8	7,4	76000	3992		
13000	77,36	19		-	**26**	17	13	8,7	6,6	76000	4424		
13000	87,95	16		-	**23**	15	12	7,7	5,8	76000	4829		
13000	101,03	14		40	**20**	13	10	6,7	5,1	76000	5085		
13000	115,03	13		35	**18**	12	8,9	5,9	4,5	76000	5167		
13000	128,20	11		32	**16**	10	8,0	5,3	4,0	76000	5218		
13000	139,70	10	**DT874**	30	**15**	9,9	7,6	5,0	3,8	76000	167	404	298
13000	156,45	9,3		27	**14**	8,9	6,8	4,4	3,4	76000	1166		
13000	176,39	8,2		24	**12**	7,9	6,0	3,9	3,0	76000	2108		
13000	200,52	7,2		21	**11**	7,0	5,3	3,5	2,6	76000	2670		
13000	225,61	6,4		19	**9,5**	6,2	4,7	3,1	2,3	76000	2730		
13000	259,15	5,6		16	**8,2**	5,4	4,1	2,7	2,0	76000	2911		
13000	293,46	4,9		15	**7,3**	4,8	3,6	2,4	1,8	76000	2960		
13000	334,15	4,3		13	**6,4**	4,2	3,2	2,1	1,6	76000	3102		
13000	407,42	3,6		11	**5,3**	3,4	2,6	1,7	1,3	76000	3157		
13000	482,05	3,0		8,9	**4,4**	2,9	2,2	1,5	1,1	76000	3198		
13000	537,22	2,7		8,0	**4,0**	2,6	2,0	1,3	0,99	76000	3293		
13000	607,27	2,4		7,1	**3,5**	2,3	1,8	1,2	0,88	76000	3316		
13000	686,44	2,1	**DT875**	6,4	**3,2**	2,1	1,6	1,0	0,80	76000	1682	407	300
13000	744,27	1,9		5,9	**3,0**	1,9	1,5	0,97	0,73	76000	1699		
13000	828,93	1,7		5,3	**2,7**	1,7	1,3	0,87	0,66	76000	1753		
13000	928,31	1,6		4,7	**2,4**	1,6	1,2	0,78	0,59	76000	1804		
13000	1046,63	1,4		4,2	**2,1**	1,4	1,1	0,69	0,52	76000	1853		
13000	1189,85	1,2		3,7	**1,9**	1,2	0,93	0,61	0,46	76000	1899		
13000	1424,58	1,0		3,1	**1,6**	1,0	0,78	0,51	0,39	76000	1917		
13000	1622,25	0,89		2,7	**1,4**	0,89	0,68	0,45	0,34	76000	1928		
13000	1813,10	0,80		2,4	**1,2**	0,80	0,61	0,40	0,30	76000	1939		
13000	2051,67	0,71		2,2	**1,1**	0,71	0,54	0,35	0,27	76000	1947		
13000	2356,74	0,62		1,9	**0,94**	0,62	0,47	0,31	0,26	76000	1984		
13000	2683,53	0,54		1,7	**0,83**	0,54	0,41	0,27	0,23	76000	2014		
13000	2990,66	0,48		1,5	**0,74**	0,49	0,37	0,27	0,20	76000	2037		
13000	3405,63	0,43	**DT876**	1,3	**0,67**	0,44	0,33	0,24	0,18	76000	2117	409	300
13000	4005,78	0,36		1,1	**0,57**	0,37	0,28	0,21	0,16	76000	2123		
13000	4762,49	0,30		0,96	**0,48**	0,31	0,27	0,17	0,13	76000	2130		
13000	5304,23	0,27		0,86	**0,43**	0,28	0,24	0,16	0,12	76000	2140		
13000	5940,18	0,24		0,77	**0,38**	0,25	0,21	0,14	0,11	76000	2150		
13000	6697,26	0,22		0,68	**0,34**	0,25	0,19	0,12	0,09	76000	2159		
13000	7613,73	0,19		0,60	**0,30**	0,22	0,17	0,11	0,08	76000	2168		



DT - PERFORMANCE TABLES

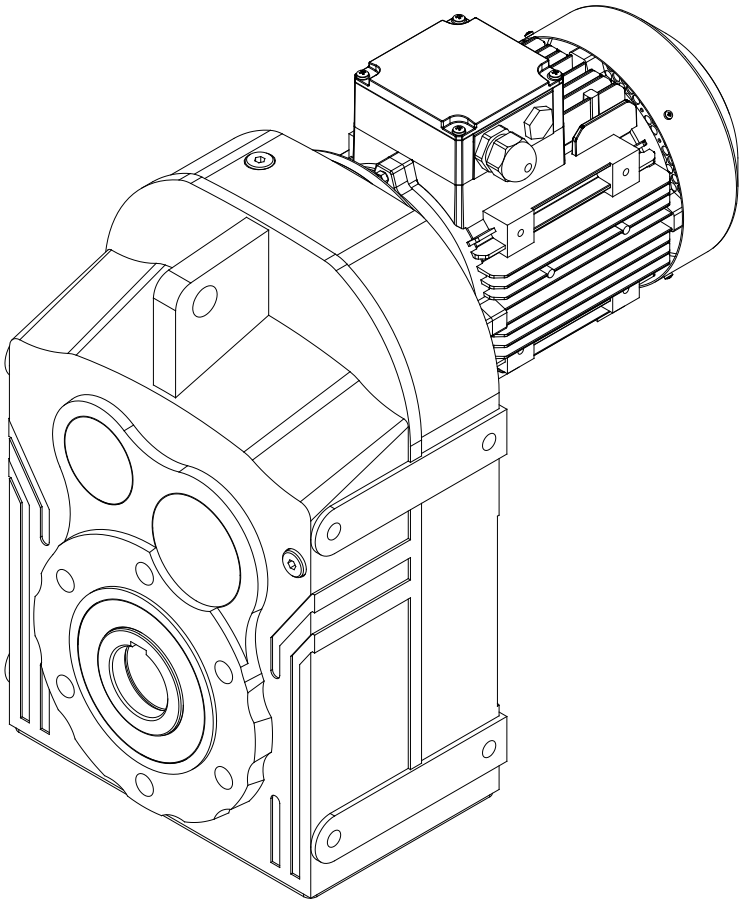
Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
13000	8612,25	0,17	**DT876**	0,53	**0,27**	0,19	0,15	0,10	0,07	76000	2171	409	300
13000	9820,98	0,15		0,52	**0,26**	0,19	0,14	0,09	0,07	76000	2173		
13000	12200,68	0,12		0,42	**0,21**	0,15	0,12	0,08	0,06	76000	2176		
13000	13875,29	0,10		0,37	**0,18**	0,13	0,10	0,07	0,05	76000	2178		
13000	15938,44	0,09		0,32	**0,16**	0,12	0,09	0,06	0,04	76000	2185		
13000	18148,47	0,08		0,28	**0,14**	0,10	0,08	0,05	0,04	76000	2190		
13000	20225,62	0,07		0,25	**0,13**	0,09	0,07	0,05	0,03	76000	2195		
12860	7,08	205	**DT972**	-	**282**	211	171	130	99	56290	-	570	302
13490	7,88	184		-	**266**	199	161	117	89	57625	-		
14170	8,82	164		-	**250**	187	151	105	80	59086	-		
14900	9,94	146		-	**233**	175	141	93	71	60730	-		
17920	11,85	122		-	**236**	156	119	78	59	63010	-		
18000	13,19	110		-	**213**	140	107	70	53	66171	-		
18000	14,77	98		-	**190**	125	96	63	48	69795	-		
18000	16,64	87		-	**169**	111	85	56	42	73773	-		
16800	20,27	72	**DT973**	-	**129**	91	69	46	35	79179	19858	575	302
17400	22,85	63		-	**118**	81	62	40	31	82111	19950		
18000	25,92	56		-	**108**	71	54	36	27	85446	20039		
18000	33,93	43		-	**83**	54	42	27	21	100000	22918		
18000	38,24	38		-	**73**	48	37	24	18	100000	23163		
18000	43,38	33		-	**65**	43	33	21	16	100000	23390		
18000	50,12	29		-	**56**	37	28	18	14	100000	24913		
18000	56,21	26		-	**50**	33	25	16	13	100000	25074		
18000	63,36	23		-	**44**	29	22	15	11	100000	25222		
18000	71,87	20		-	**39**	26	20	13	9,8	100000	25359		
18000	84,31	17		-	**33**	22	17	11	8,4	100000	25531		
18000	93,91	15		-	**30**	20	15	9,9	7,5	100000	25619		
18000	105,33	14		-	**27**	18	13	8,8	6,7	100000	25702		
18000	119,15	12		-	**24**	16	12	7,8	5,9	100000	25781		
18000	136,23	11		41	**21**	14	10	6,9	5,2	100000	25856		
18000	153,87	9,4		37	**18**	12	9,2	6,1	4,6	100000	25922		
18000	171,00	8,5		33	**17**	11	8,3	5,5	4,2	100000	25968		
18000	191,74	7,6		29	**15**	9,7	7,4	4,9	3,7	100000	26012		
18000	197,95	7,3	**DT974**	30	**15**	9,7	7,4	4,9	3,7	100000	1505	587	304
18000	222,15	6,5		27	**13**	8,7	6,6	4,3	3,3	100000	1770		
18000	250,41	5,8		24	**12**	7,7	5,9	3,9	2,9	100000	2850		
18000	284,06	5,1		21	**10**	6,8	5,2	3,4	2,6	100000	3264		
18000	333,23	4,4		18	**8,9**	5,8	4,4	2,9	2,2	100000	3501		
18000	371,15	3,9		16	**8,0**	5,2	4,0	2,6	2,0	100000	3640		
18000	415,16	3,5		14	**7,1**	4,7	3,6	2,3	1,8	100000	3663		
18000	523,19	2,8		11	**5,7**	3,7	2,8	1,9	1,4	100000	3727		
18000	474,03	3,1	**DT975**	13	**6,4**	4,2	3,2	2,1	1,6	100000	1415	592	306
18000	560,97	2,6		11	**5,4**	3,5	2,7	1,8	1,3	100000	1471		
18000	603,97	2,4		10	**5,0**	3,3	2,5	1,6	1,2	100000	1514		
18000	679,53	2,1		8,9	**4,5**	2,9	2,2	1,5	1,1	100000	1545		
18000	769,47	1,9		7,9	**3,9**	2,6	2,0	1,3	0,98	100000	1573		
18000	864,41	1,7		7,0	**3,5**	2,3	1,8	1,2	0,87	100000	1590		
18000	938,19	1,5		6,5	**3,2**	2,1	1,6	1,1	0,81	100000	1610		
18000	1110,06	1,3		5,5	**2,7**	1,8	1,4	0,90	0,68	100000	1638		
18000	1244,98	1,2		4,9	**2,5**	1,6	1,2	0,80	0,61	100000	1704		
18000	1403,36	1,0		4,4	**2,2**	1,4	1,1	0,71	0,54	100000	1766		
18000	1591,90	0,91		3,8	**1,9**	1,3	0,96	0,63	0,48	100000	1823		
18000	1867,46	0,78		3,3	**1,6**	1,1	0,82	0,54	0,41	100000	1887		
18000	2079,97	0,70		2,9	**1,5**	0,96	0,73	0,48	0,36	100000	1924		
18000	2909,37	0,50	**DT976**	2,1	**1,1**	0,70	0,54	0,35	0,27	100000	2052	595	306
18000	3079,47	0,47		2,0	**1,0**	0,66	0,51	0,33	0,25	100000	2056		



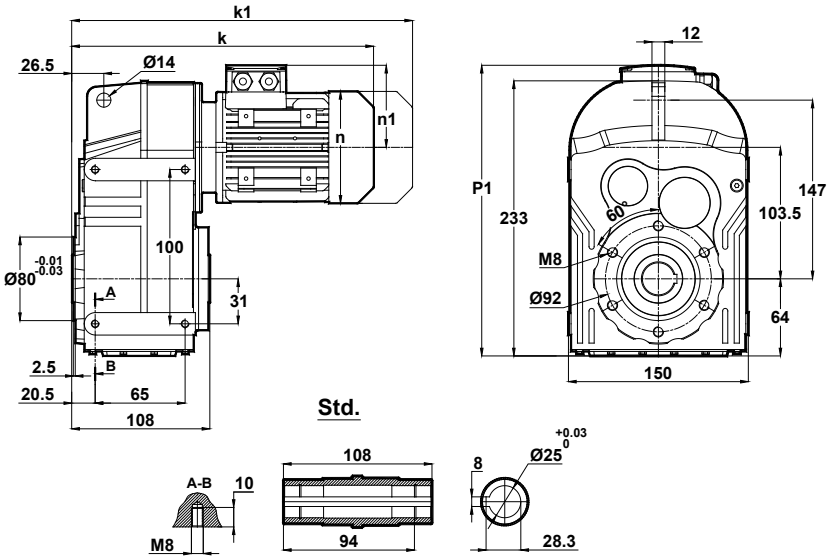
Nominal Torques	Ratio	Output Speeds	Type	Pe= Nominal Power [kW] (For Service Factor f_s = 1,0)						Radial Loads (Output)	Radial Loads (Input)	Weight	Dim. Page
				Input speed[rpm]									
M_a [Nm] (n_1=1450rpm)	i	n_2 [r.p.m] (n_1=1450rpm)		n_1=2900	n_1=1450	n_1=950	n_1=725	n_1=475	n_1=360	F_{qam} [N] (n_1=1450rpm)	F_{qem} [N] (n_1=1450rpm)	[kg]	
18000	3686,99	0,39	**DT976**	1,7	**0,85**	0,56	0,42	0,28	0,23	100000	2066	595	306
18000	4589,41	0,32		1,4	**0,68**	0,45	0,34	0,25	0,19	100000	2120		
18000	5494,80	0,26		1,1	**0,57**	0,37	0,29	0,21	0,16	100000	2127		
18000	7017,74	0,21		0,90	**0,45**	0,29	0,25	0,16	0,12	100000	2144		
18000	8841,14	0,16		0,71	**0,36**	0,26	0,20	0,13	0,10	100000	2159		
18000	11348,58	0,13		0,56	**0,28**	0,20	0,15	0,10	0,08	100000	2173		
18000	16360,74	0,09		0,43	**0,21**	0,16	0,12	0,08	0,06	100000	2187		
18000	20565,73	0,07		0,34	**0,17**	0,12	0,09	0,06	0,05	100000	2195		

DANA BREVINI® Motion Systems

DIMENSION PAGES

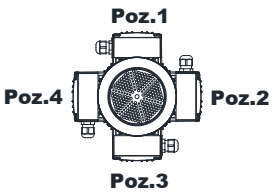


DR072.00
DR073.00



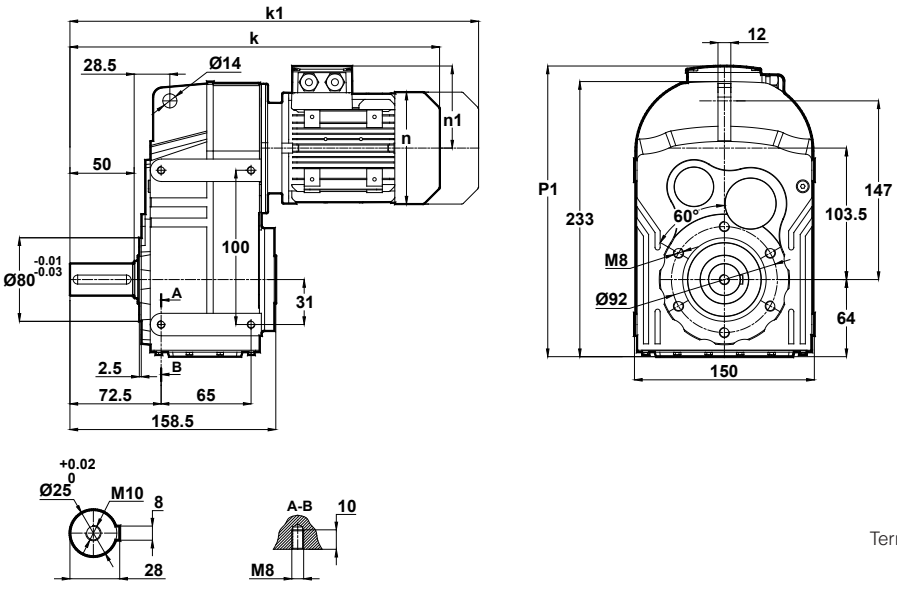
	63	71	80	90S	90L	100L
k	298.5	328	362	401	401	449
k1	359.5	419	455	504.5	504.5	557.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

Terminal Box Positions



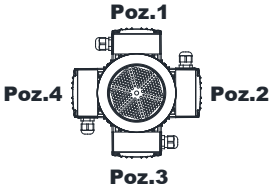
63-71-80-90-100
Type

DR072.01
DR073.01



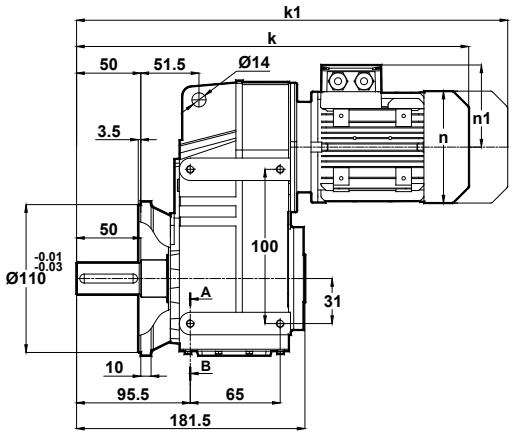
	63	71	80	90S	90L	100L
k	350.5	380	414	453	453	501
k1	411.5	471	507	556.5	556.5	609.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

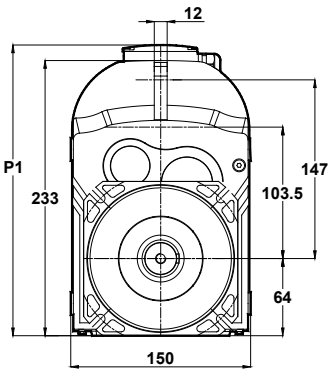
Terminal Box Positions

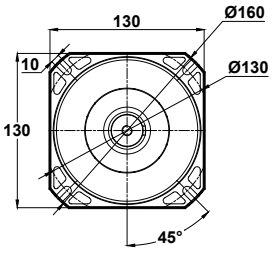


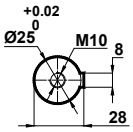
63-71-80-90-100
Type

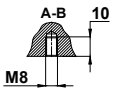
DR072.02
DR073.02





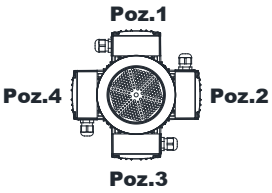






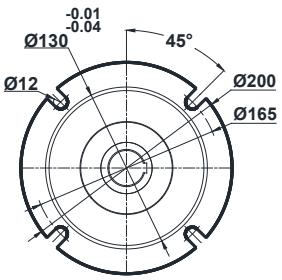
	63	71	80	90S	90L	100L
k	373.5	403	437	476	476	534
k1	434.5	494	530	579.5	579.5	632.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

Terminal Box Positions

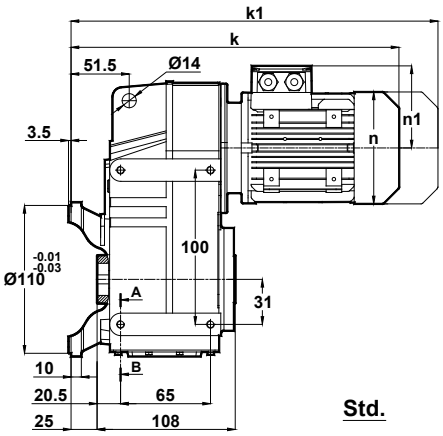


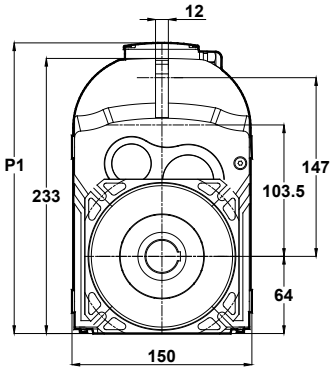
63-71-80-90-100
Type

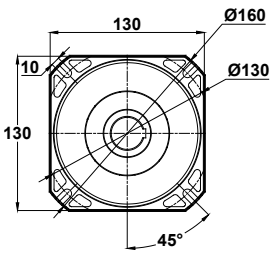
Optional Flange Dimensions



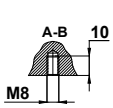
DR072.03
DR073.03

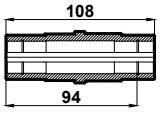


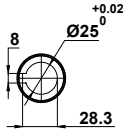




Std.

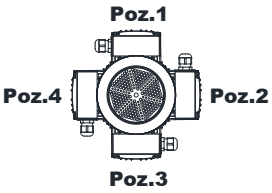






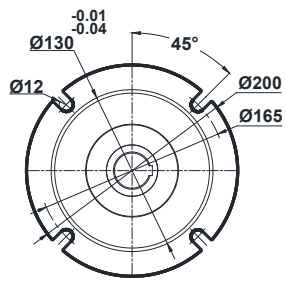
	63	71	80	90S	90L	100L
k	323.5	353	387	426	426	474
k1	384.5	444	480	529.5	529.5	582.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

Terminal Box Positions

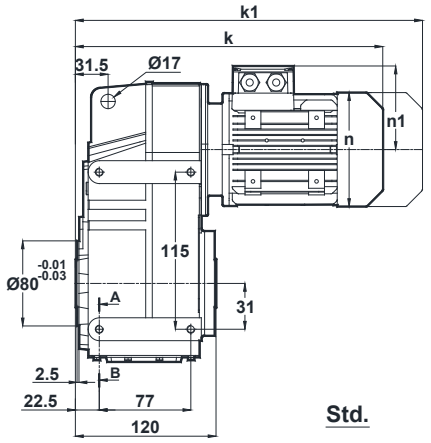


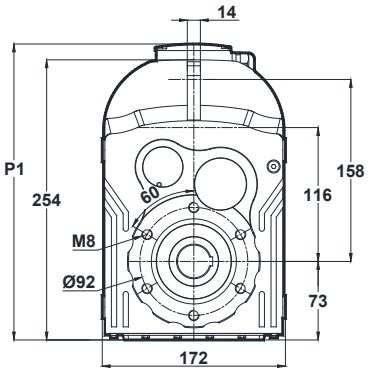
63-71-80-90-100
Type

Optional Flange Dimensions

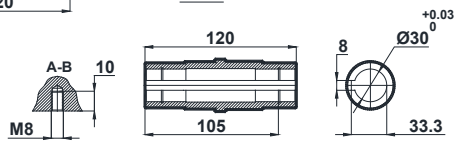


DR172.00
DR173.00



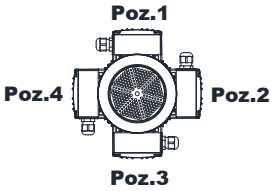


Std.



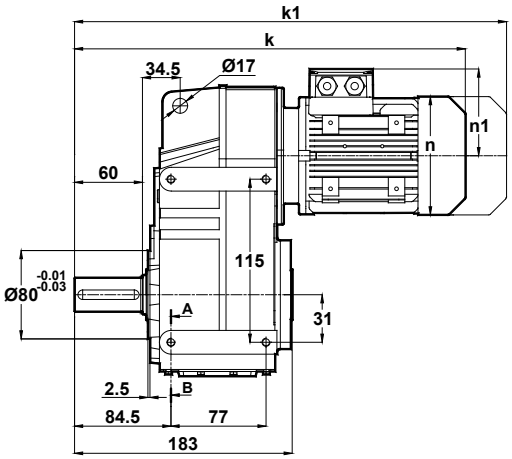
	63	71	80	90S	90L	100L
k	308	337	371	410	410	458
k1	369	428	464	514.5	514.5	577.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

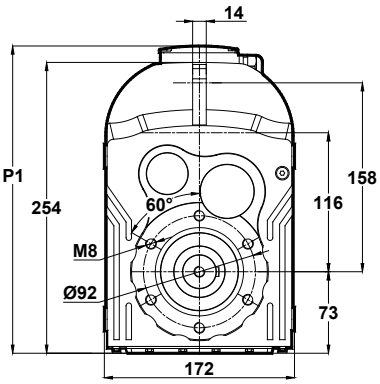
Terminal Box Positions

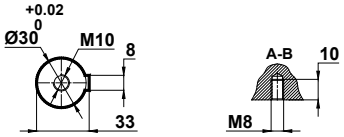


63-71-80-90-100
Type

DR172.01
DR173.01

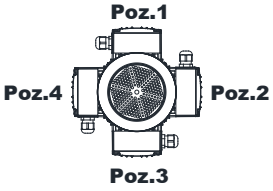




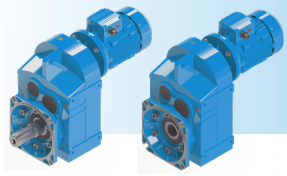


	63	71	80	90S	90L	100L
k	371	400	434	473	473	521
k1	432	491	527	577.5	577.5	640.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

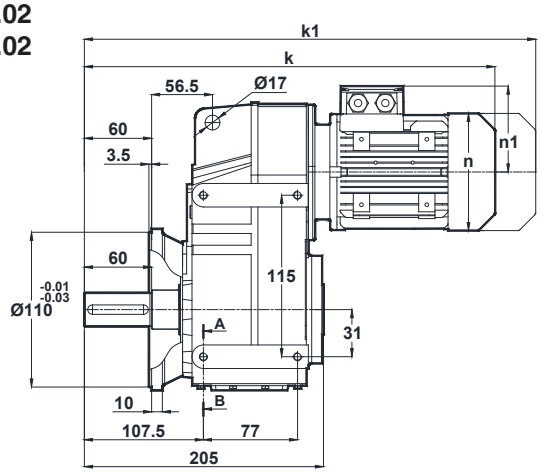
Terminal Box Positions

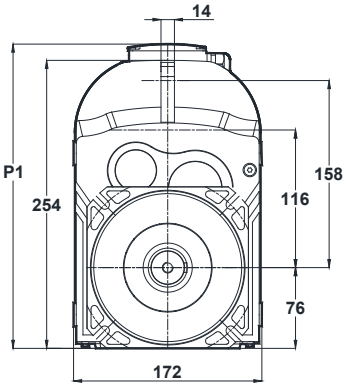


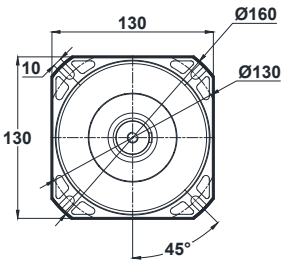
63-71-80-90-100
Type

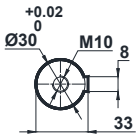


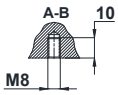
DR172.02
DR173.02





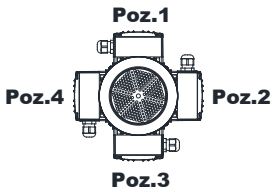






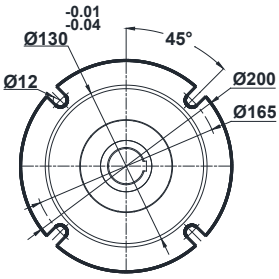
	63	71	80	90S	90L	100L
k	393	422	456	495	495	543
k1	454	513	549	599.5	599.5	662.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

Terminal Box Positions

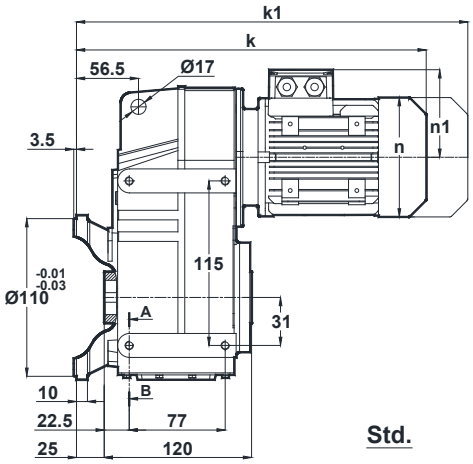


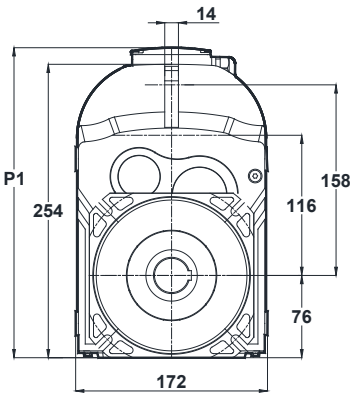
63-71-80-90-100
Type

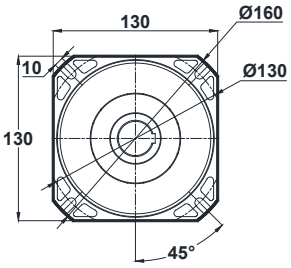
Optional Flange Dimensions



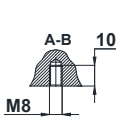
DR172.03
DR173.03

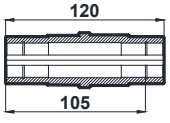


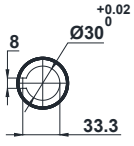




Std.

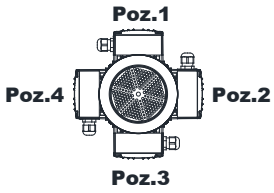






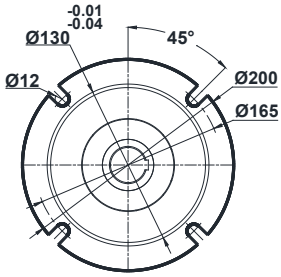
	63	71	80	90S	90L	100L
k	333	362	396	435	435	483
k1	394	453	489	539.5	539.5	602.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	286	301	310	321	321	336

Terminal Box Positions

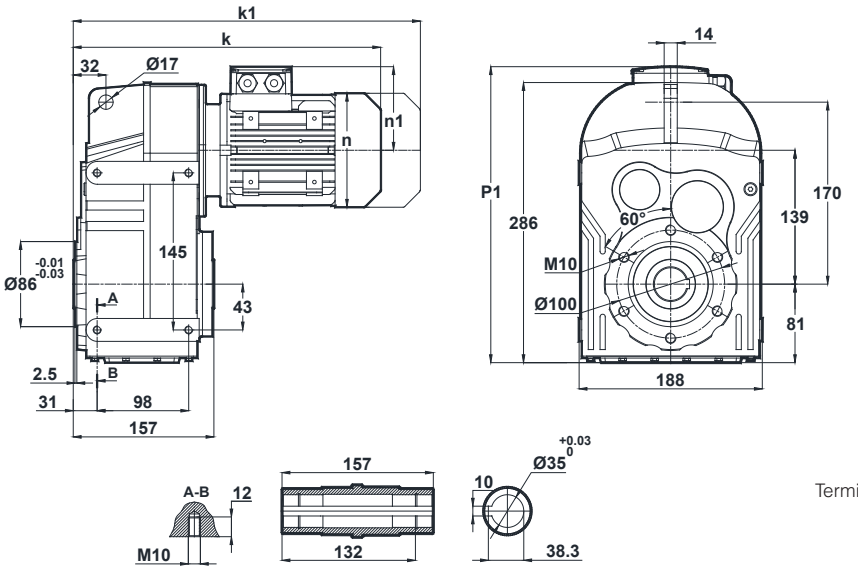


63-71-80-90-100
Type

Optional Flange Dimensions

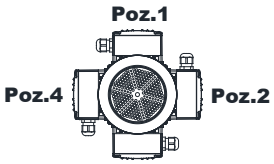


DR272.00
DR273.00



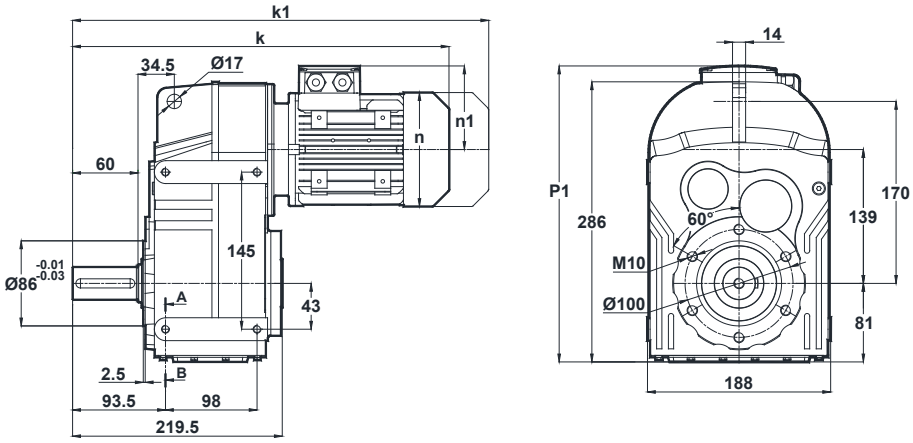
	63	71	80	90S	90L	100L
k	338	367	401	440	440	488
k1	399	458	494	544.5	544.5	607.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	317	332	341	352	352	367

Terminal Box Positions



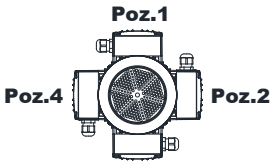
63-71-80-90-100
Type

DR272.01
DR273.01

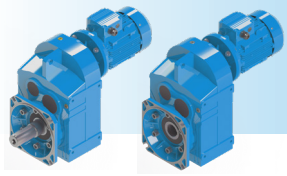


	63	71	80	90S	90L	100L
k	400	429	463	502	502	550
k1	461	520	556	606.5	606.5	669.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	317	332	341	352	352	367

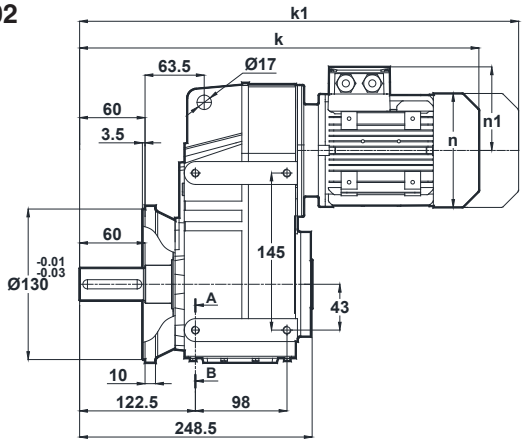
Terminal Box Positions

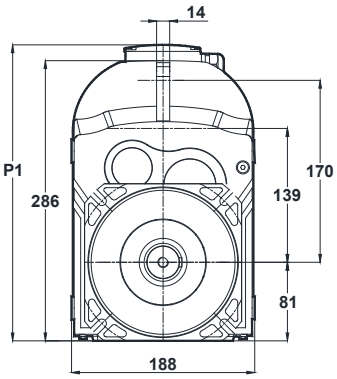


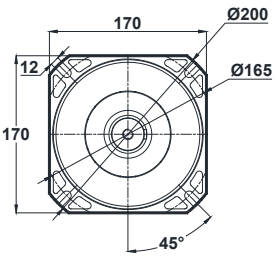
63-71-80-90-100
Type

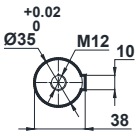


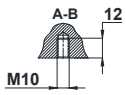
DR272.02
DR273.02



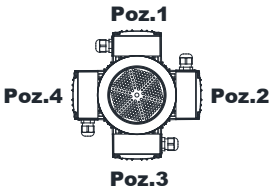






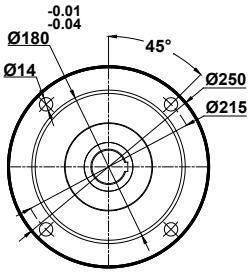


Terminal Box Positions



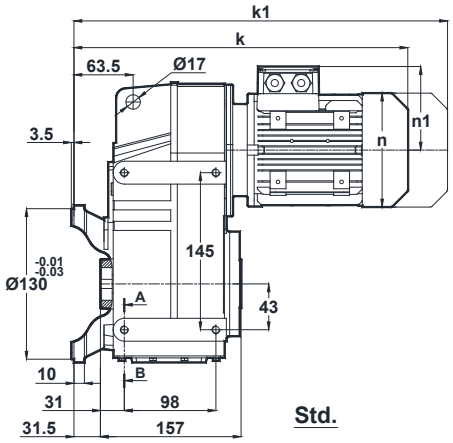
63-71-80-90-100
Type

Optional Flange Dimensions

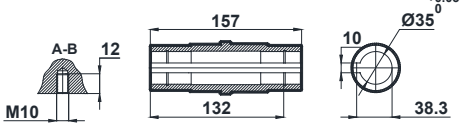


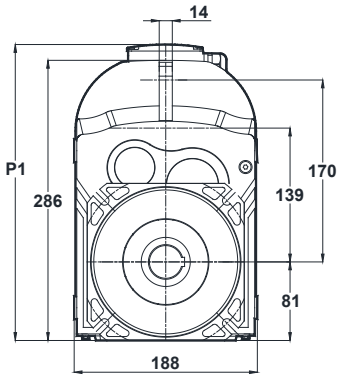
	63	71	80	90S	90L	100L
k	429	458	492	531	531	579
k1	490	549	585	635.5	635.5	698.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	317	332	341	352	352	367

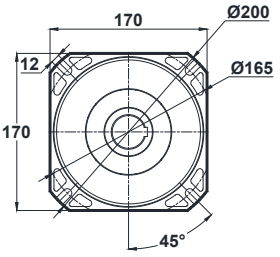
DR272.03
DR273.03



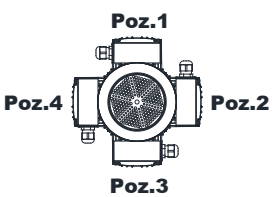
Std.





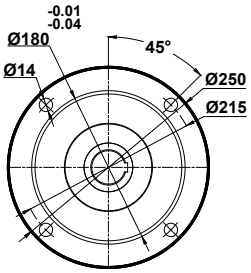


Terminal Box Positions



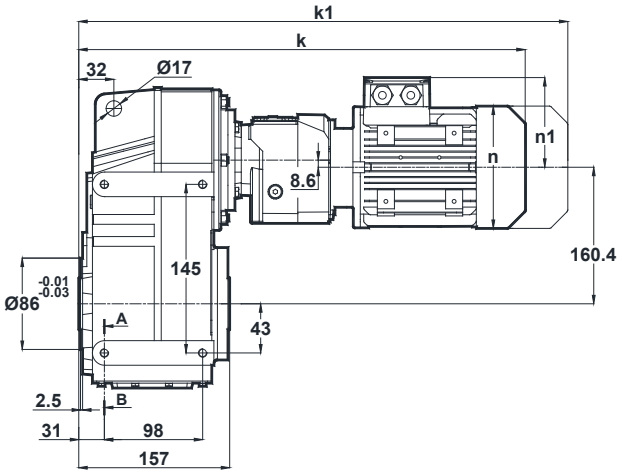
63-71-80-90-100
Type

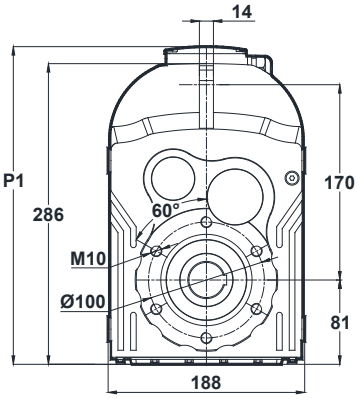
Optional Flange Dimensions

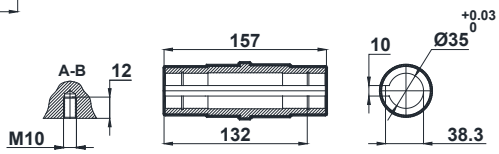


	63	71	80	90S	90L	100L
k	369	398	432	471	471	737
k1	430	489	525	575.5	575.5	856.5
n	121	137	155	176	176	193
n1	97	112	121	132	132	147
p1	317	332	341	352	352	367

DR275.00
DR276.00

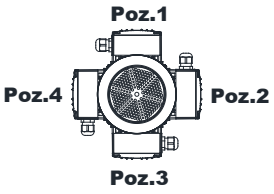






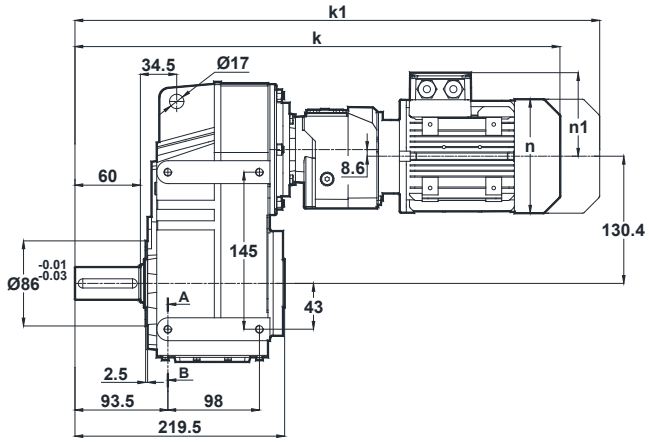
	63	71
k	484	513
k1	545	604
n	121	137
n1	97	112
p1	309	324

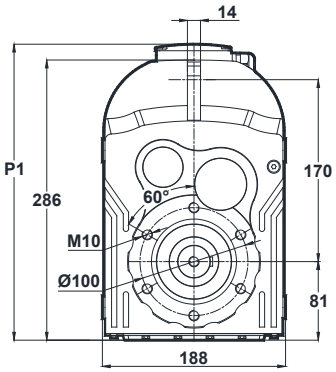
Terminal Box Positions

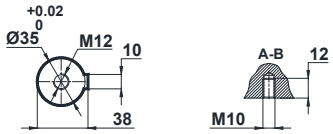


63-71
Type

DR275.01
DR276.01

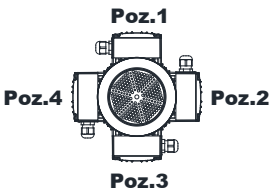




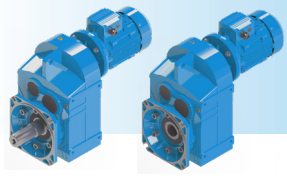


	63	71
k	546	575
k1	607	666
n	121	137
n1	97	112
p1	309	324

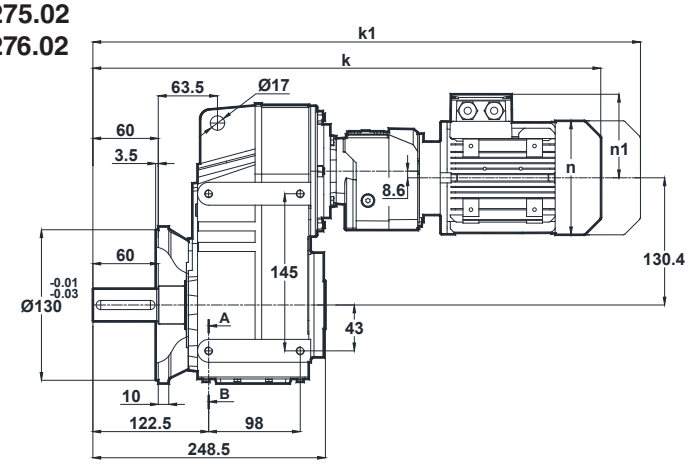
Terminal Box Positions

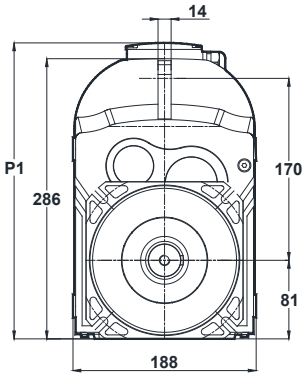


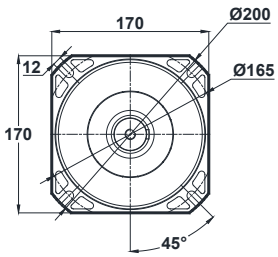
63-71
Type

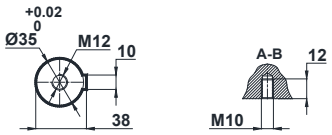


DR275.02
DR276.02



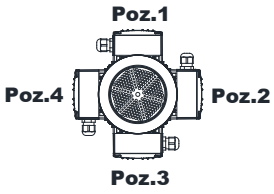






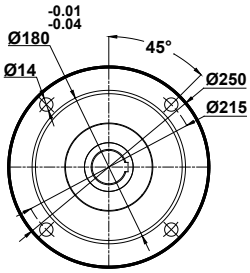
	63	71
k	575	604
k1	636	695
n	121	137
n1	97	112
p1	309	324

Terminal Box Positions

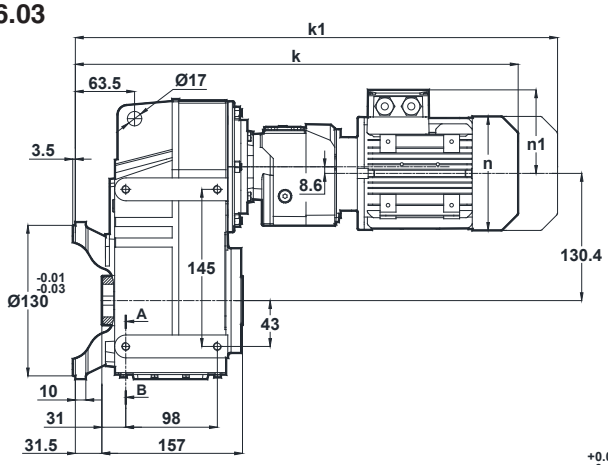


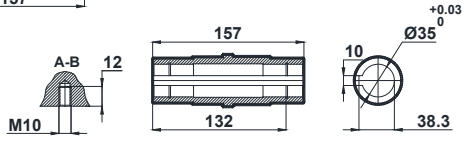
63-71
Type

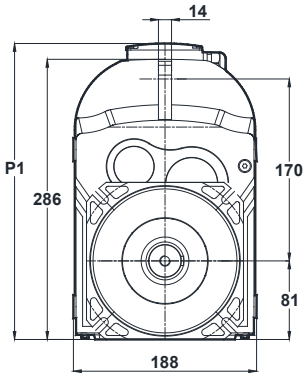
Optional Flange Dimensions

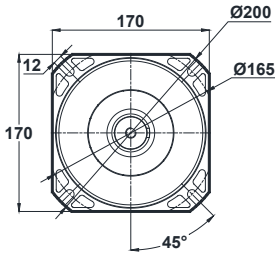


DR275.03
DR276.03



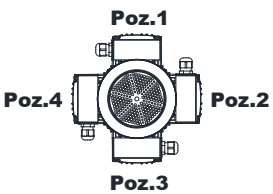






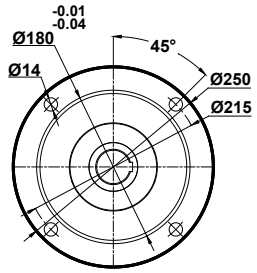
	63	71
k	515	544
k1	576	635
n	121	137
n1	97	112
p1	309	324

Terminal Box Positions

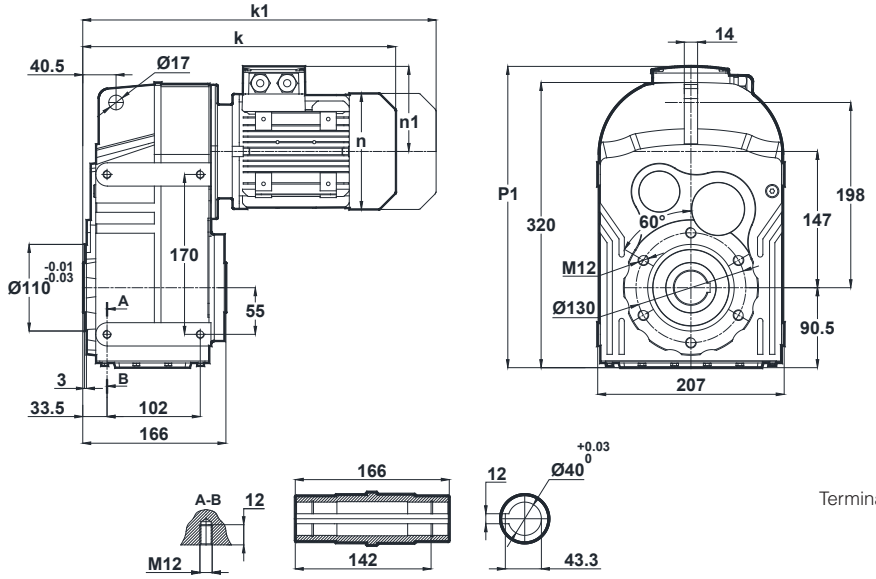


63-71
Type

Optional Flange Dimensions

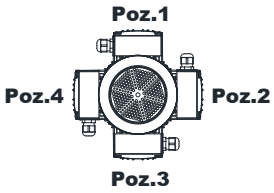


DR282.00
DR283.00



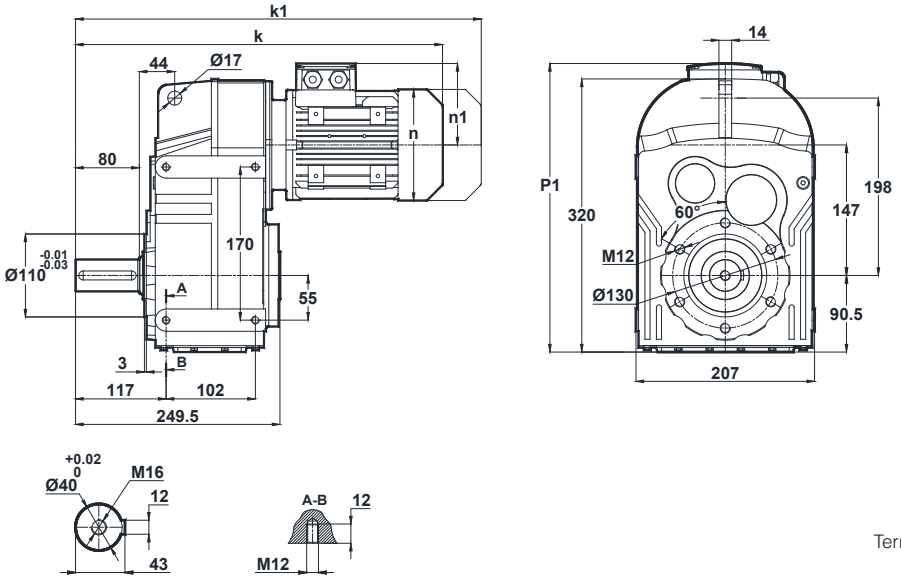
	71	80	90S	90L	100L	112M	132S	132M
k	370	404	443	443	491	515	598	598
k1	461	497	547.5	547.5	610.5	619.5	728	728
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	349	358	369	369	384	395	417	417

Terminal Box Positions



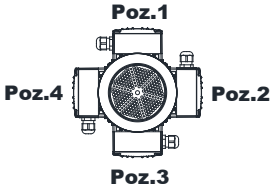
71-80-90-100-112-132
Type

DR282.01
DR283.01

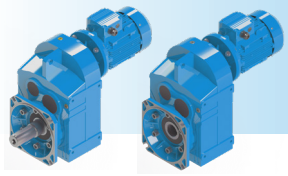


	71	80	90S	90L	100L	112M	132S	132M
k	454	488	527	527	575	599	682	682
k1	545	581	631.5	631.5	694.5	703.5	812	812
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	349	358	369	369	384	395	417	417

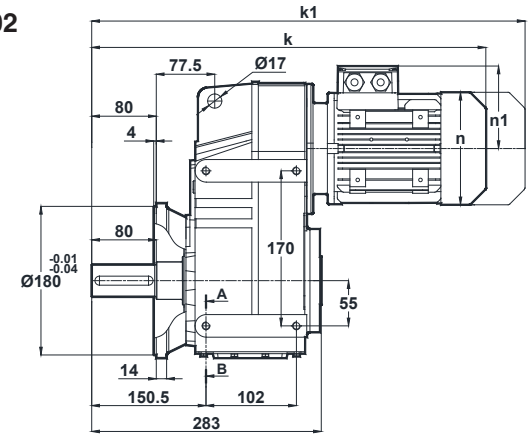
Terminal Box Positions

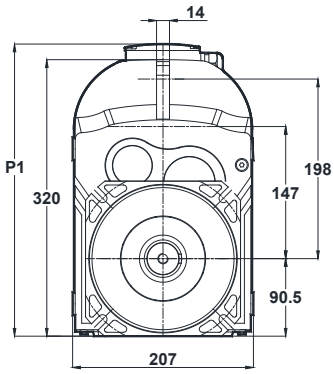


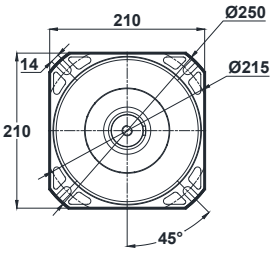
71-80-90-100-112-132
Type

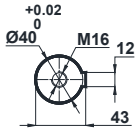


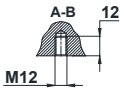
DR282.02
DR283.02



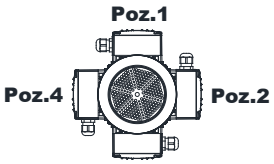






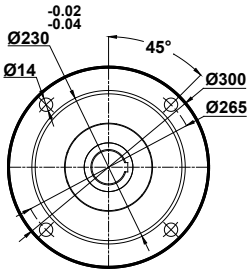


Terminal Box Positions



71-80-90-100-112-132
Type

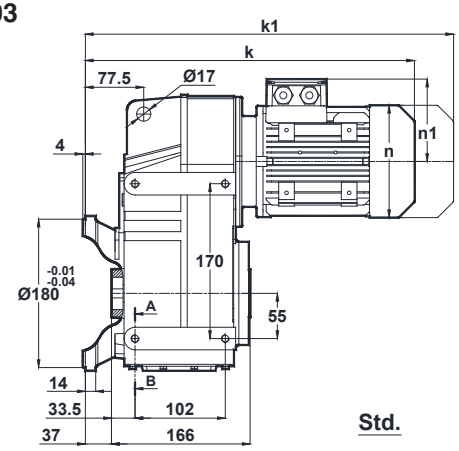
Optional Flange Dimensions



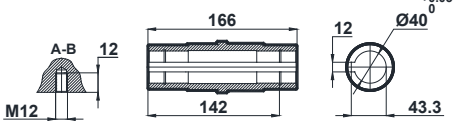
	71	80	90S	90L	100L	112M	132S	132M
k	487	521	560	560	608	632	715	715
k1	578	614	664.5	664.5	727.5	736.5	845	845
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	349	358	369	369	384	395	417	417

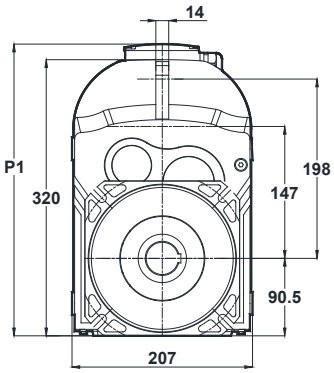
Please see on page 318 for other optional flange dimensions

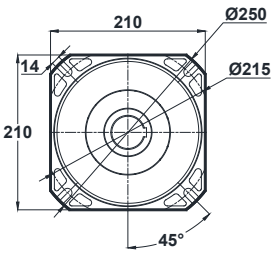
DR282.03
DR283.03



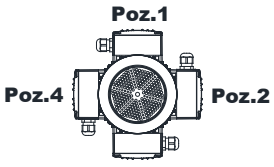
Std.





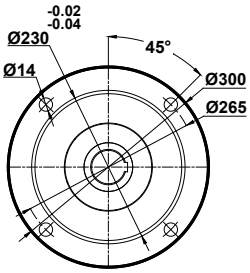


Terminal Box Positions



71-80-90-100-112-132
Type

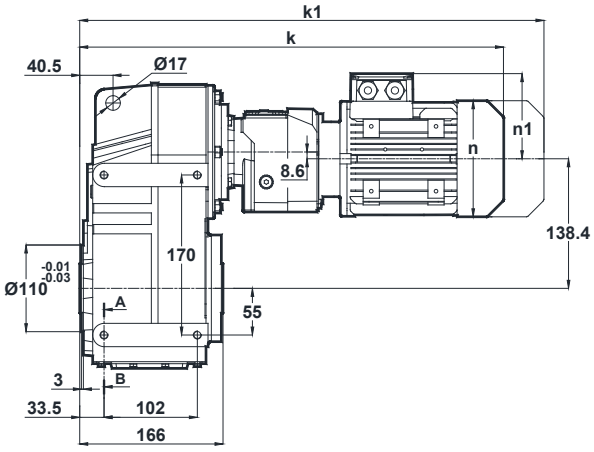
Optional Flange Dimensions

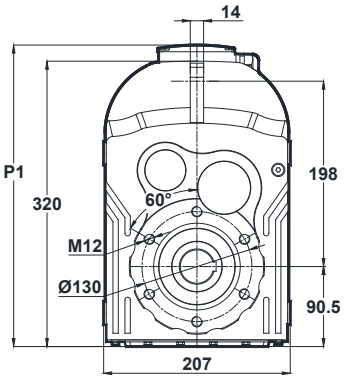


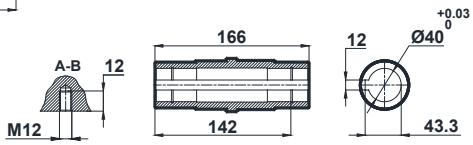
	71	80	90S	90L	100L	112M	132S	132M
k	407	441	480	480	528	552	635	635
k1	498	534	584.5	584.5	647.5	656.5	765	765
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	349	358	369	369	384	395	417	417

Please see on page 318 for other optional flange dimensions

DR285.00
DR286.00

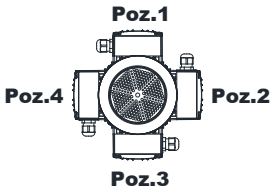






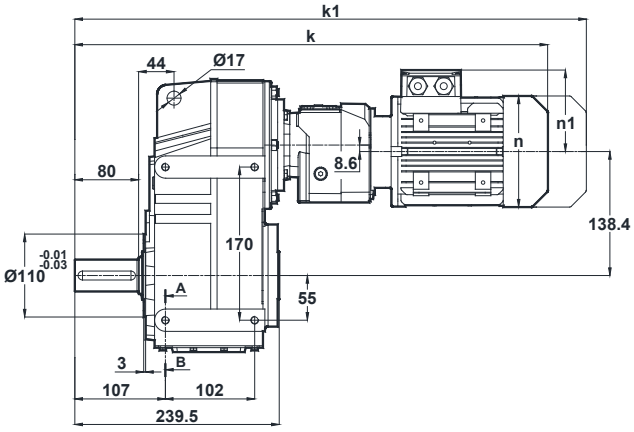
	63	71
k	492	521
k1	553	612
n	121	137
n1	97	112
p1	326	341

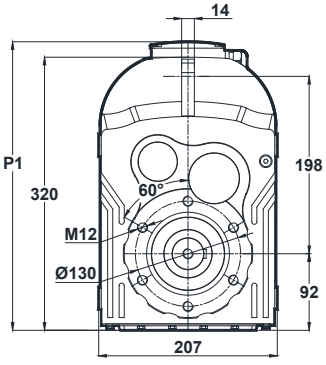
Terminal Box Positions

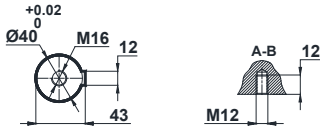


63-71
Type

DR285.01
DR286.01

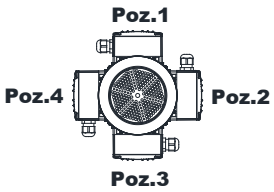




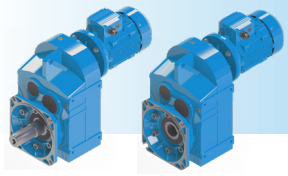


	63	71
k	576	605
k1	637	696
n	121	137
n1	97	112
p1	326	341

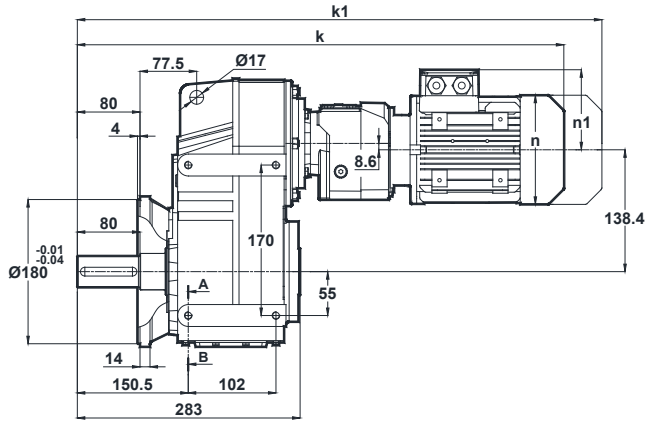
Terminal Box Positions

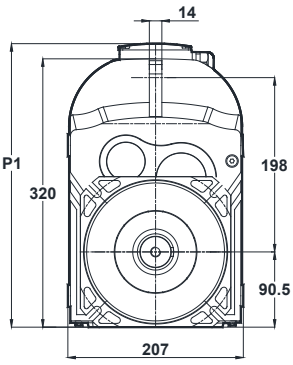


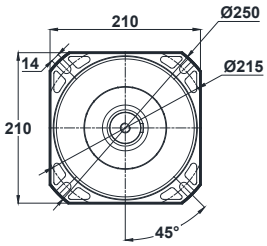
63-71
Type

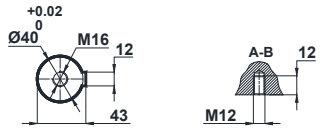


DR285.02
DR286.02

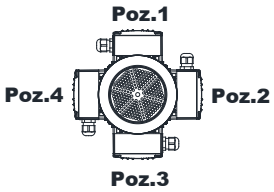






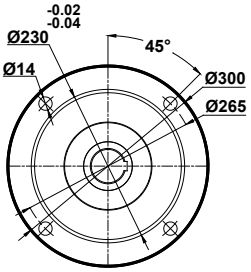


Terminal Box Positions



63-71
Type

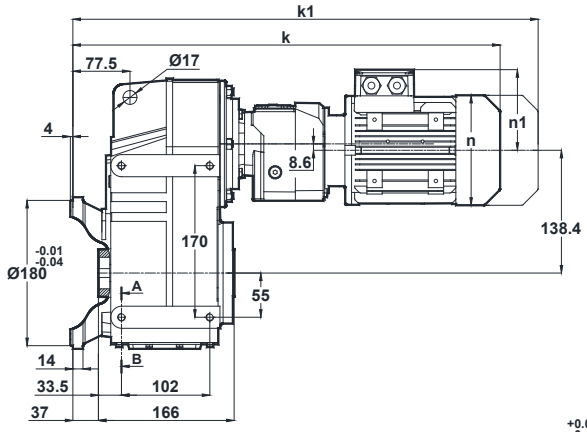
Optional Flange Dimensions

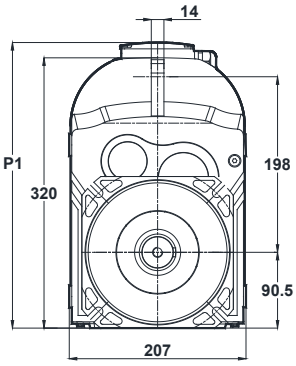


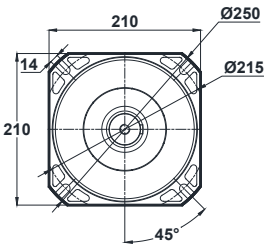
	63	71
k	609	638
k1	670	729
n	121	137
n1	97	112
p1	326	341

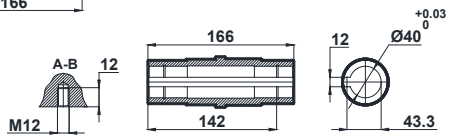
Please see on page 318 for other optional flange dimensions

DR285.03
DR286.03

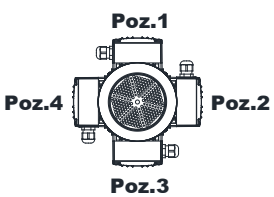






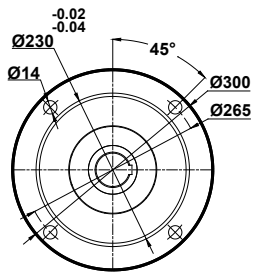


Terminal Box Positions



63-71
Type

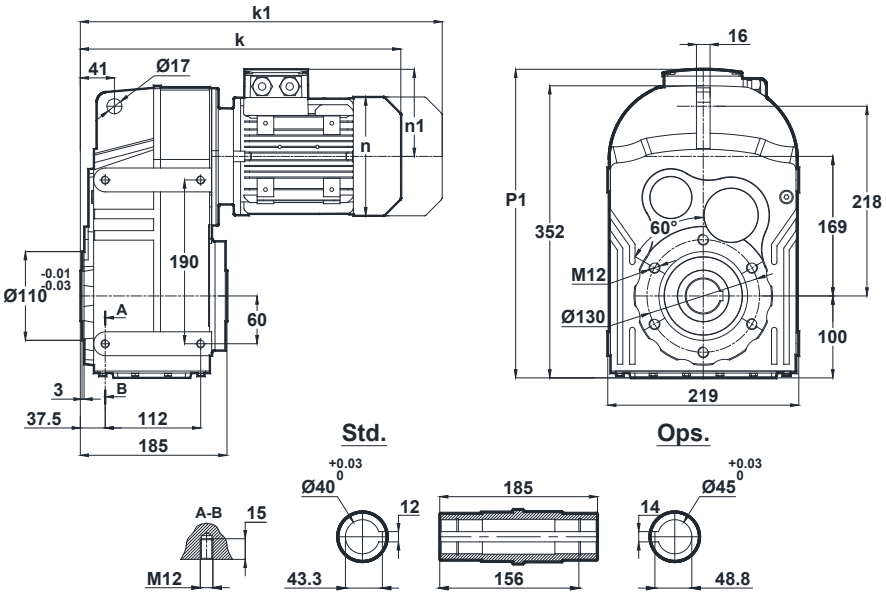
Optional Flange Dimensions



	63	71
k	529	558
k1	590	649
n	121	137
n1	97	112
p1	326	341

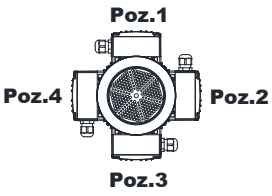
Please see on page 318 for other optional flange dimensions

DR372.00
DR373.00



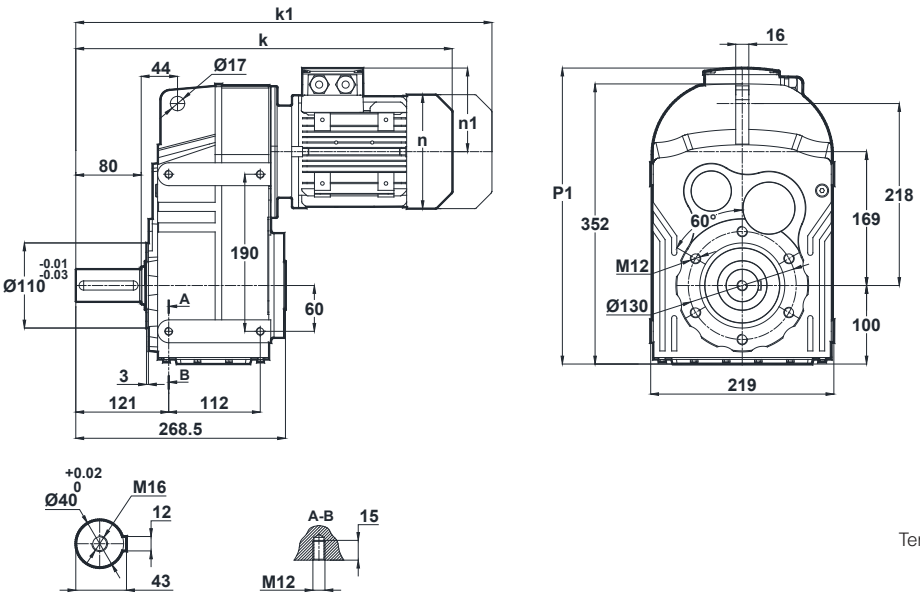
	71	80	90S	90L	100L	112M	132S	132M
k	381	415	454	454	502	526	609	609
k1	472	508	558.5	558.5	621.5	630.5	739	739
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	381	390	401	401	416	427	448	448

Terminal Box Positions



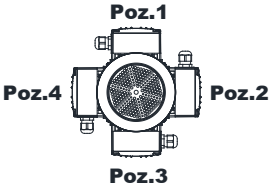
71-80-90-100-112-132
Type

DR372.01
DR373.01

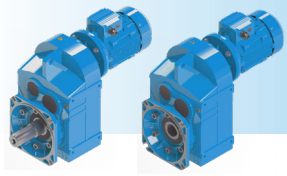


	71	80	90S	90L	100L	112M	132S	132M
k	464	498	537	537	585	609	692	692
k1	555	591	641.5	641.5	704.5	713.5	822	822
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	381	390	401	401	416	427	448	448

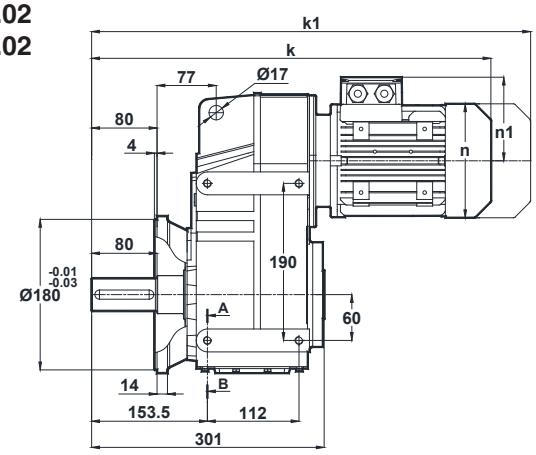
Terminal Box Positions

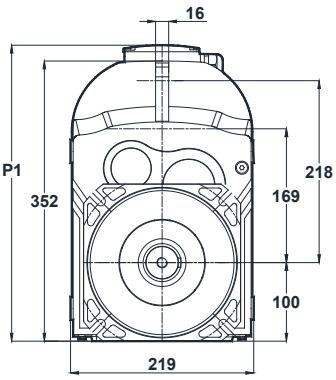


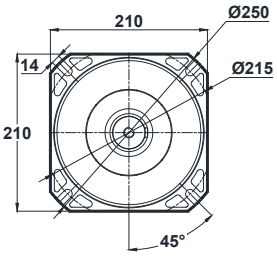
71-80-90-100-112-132
Type

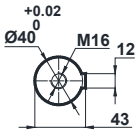


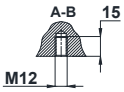
DR372.02
DR373.02





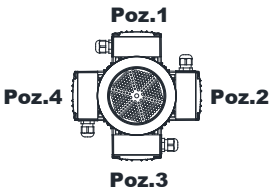






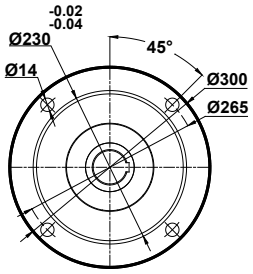
	71	80	90S	90L	100L	112M	132S	132M
k	497	531	570	570	618	642	725	725
k1	568	624	674.5	674.5	737.5	746.5	855	855
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	381	390	401	401	416	427	448	448

Terminal Box Positions



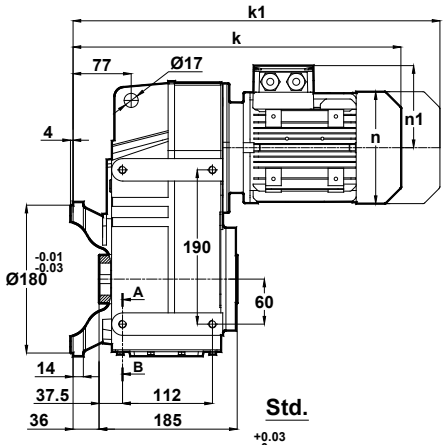
71-80-90-100-112-132
Type

Optional Flange Dimensions

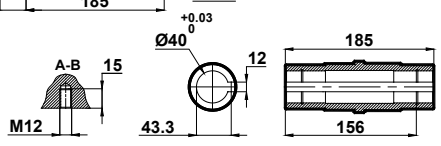


Please see on page 318 for other optional flange dimensions

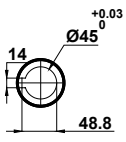
DR372.03
DR373.03

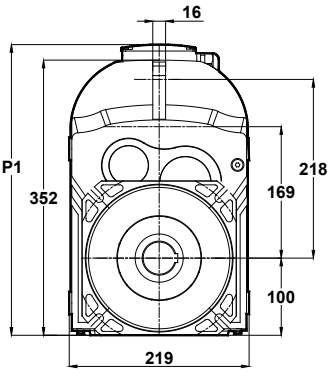


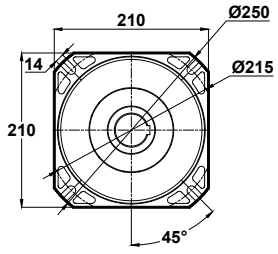
Std.



Ops.

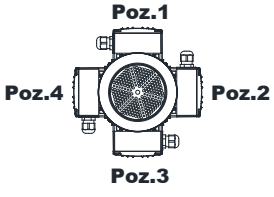






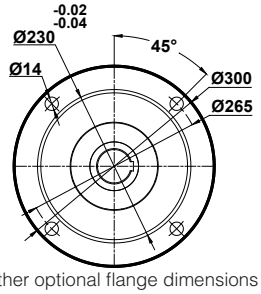
	71	80	90S	90L	100L	112M	132S	132M
k	417	451	490	490	538	562	645	645
k1	508	544	594.5	594.5	657.5	666.5	775	775
n	137	155	176	176	193	215	257	257
n1	112	121	132	132	147	158	179	179
p1	381	390	401	401	416	427	448	448

Terminal Box Positions



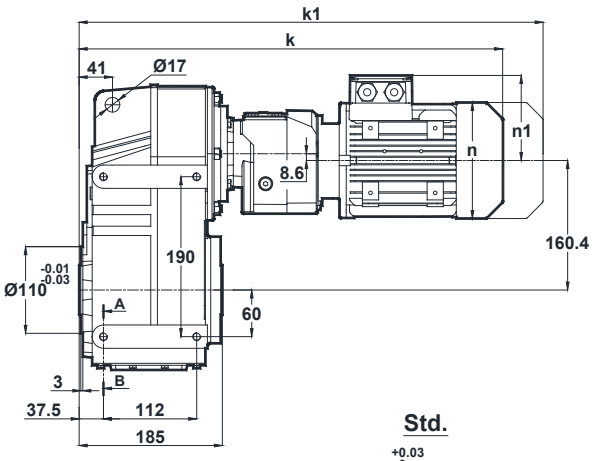
71-80-90-100-112-132
Type

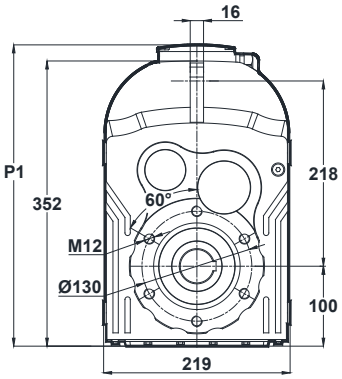
Optional Flange Dimensions



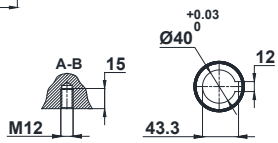
Please see on page 318 for other optional flange dimensions

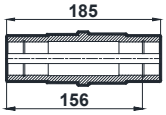
DR375.00
DR376.00



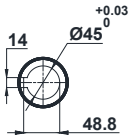


Std.



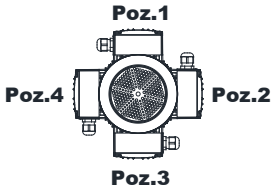


Ops.



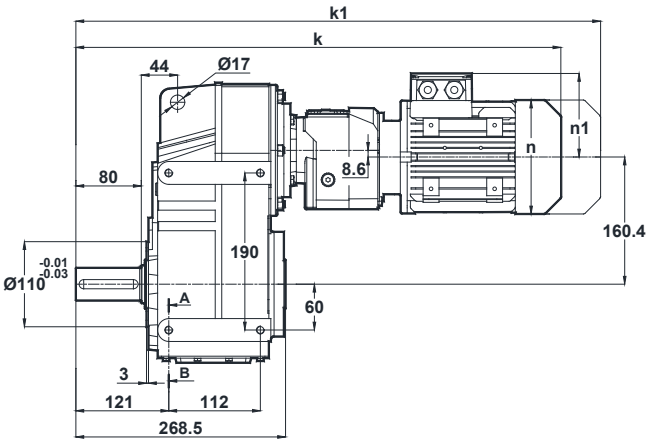
	63	71	80
k	503	532	566
k1	564	623	659
n	121	137	155
n1	97	112	121
p1	358	373	382

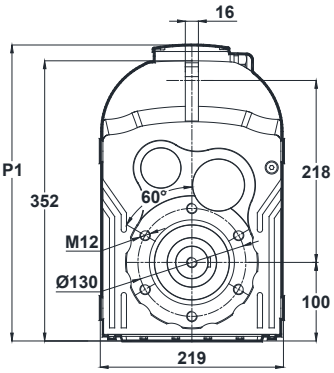
Terminal Box Positions

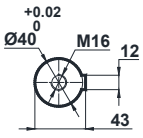


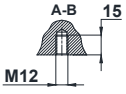
63-71-80
Type

DR375.01
DR376.01



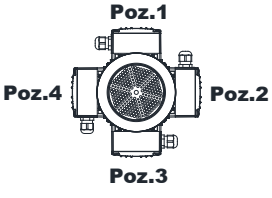




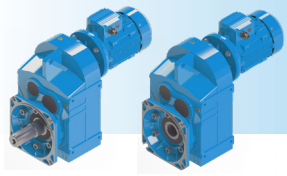


	63	71	80
k	586	615	649
k1	647	706	742
n	121	137	155
n1	97	112	121
p1	358	373	382

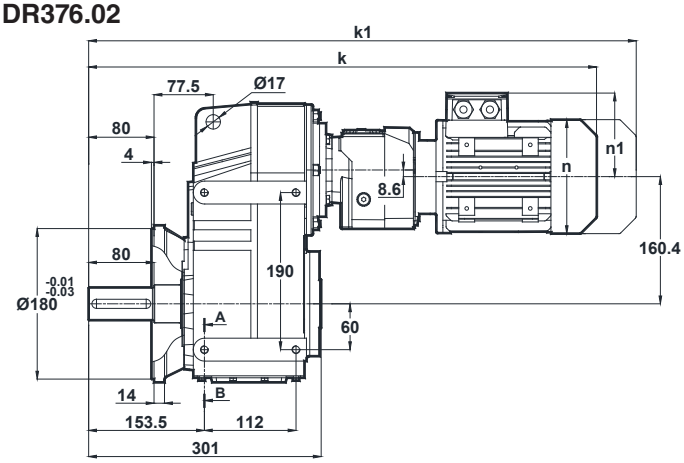
Terminal Box Positions

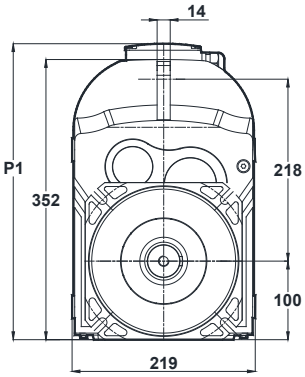


63-71-80
Type

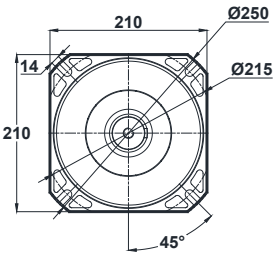


DR375.02
DR376.02

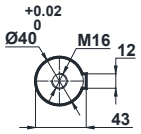


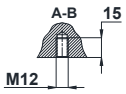


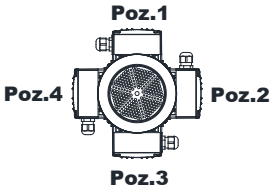
Terminal Box Positions



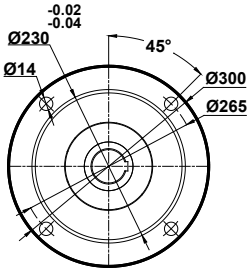
Optional Flange Dimensions







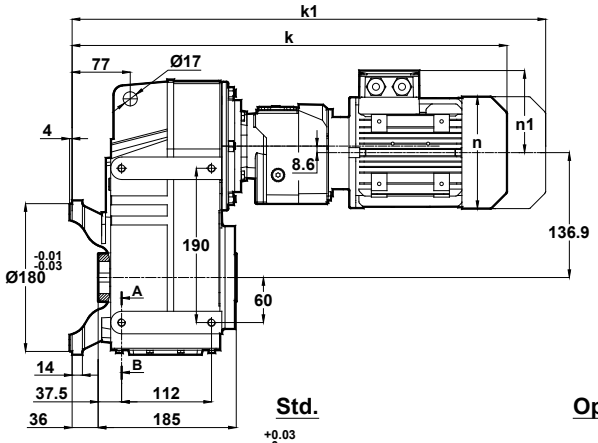
63-71-80
Type



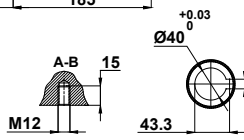
	63	71	80
k	619	648	682
k1	680	739	775
n	121	137	155
n1	97	112	121
p1	358	373	382

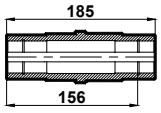
Please see on page 318 for other optional flange dimensions

DR375.03
DR376.03

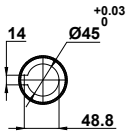


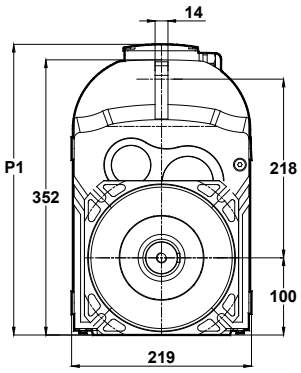
Std.



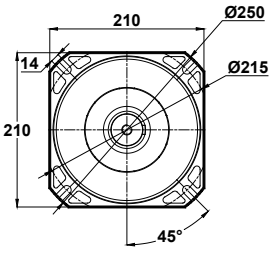


Ops.

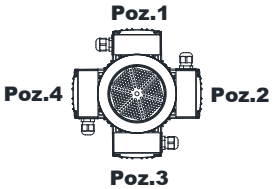




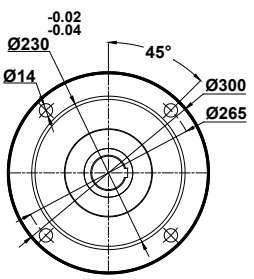
Terminal Box Positions



Optional Flange Dimensions



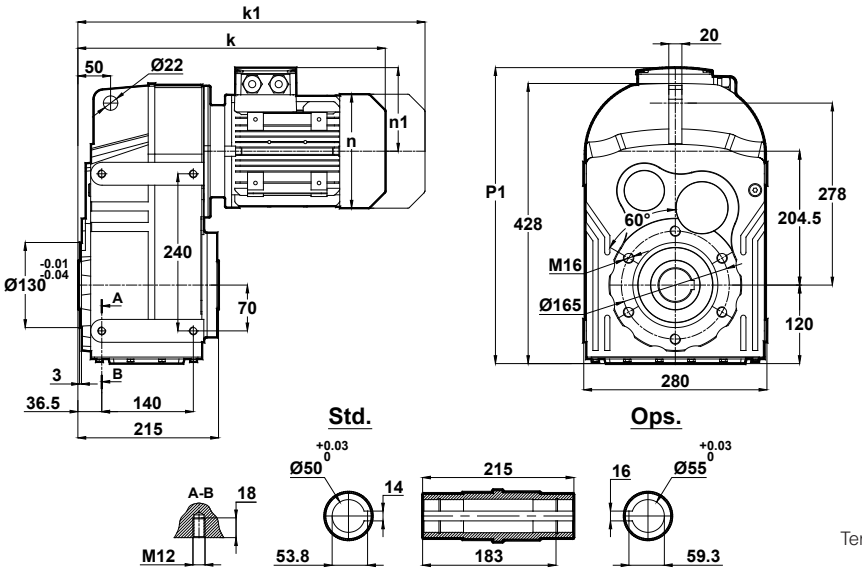
63-71-80
Type



	63	71	80
k	539	568	602
k1	600	659	695
n	121	137	155
n1	97	112	121
p1	358	373	382

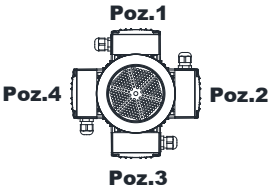
Please see on page 318 for other optional flange dimensions

DR472.00
DR473.00



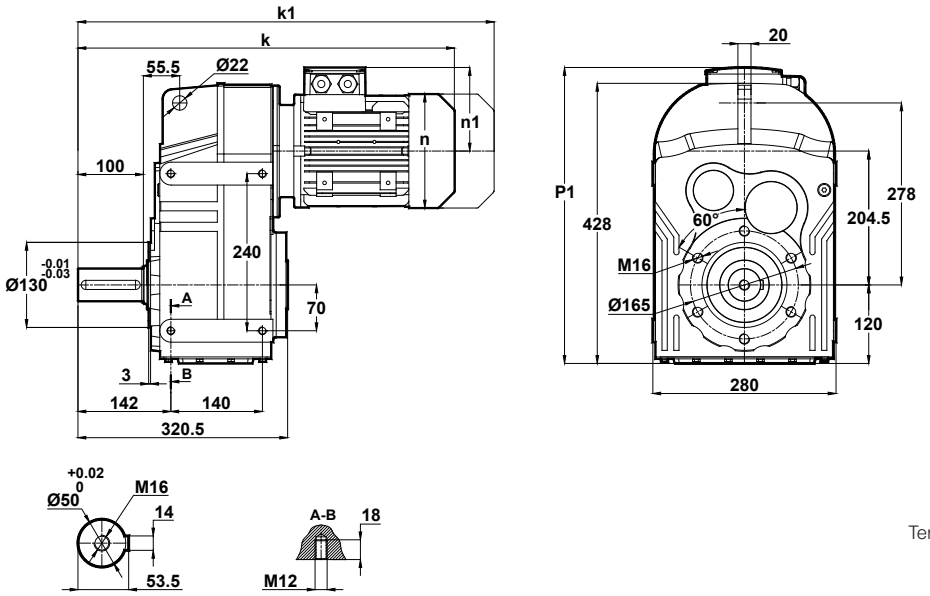
	71	80	90S	90L	100L	112M	132S	132M	160M	160L
k	405	439	478	478	526	550	637	637	733	733
k1	496	532	582.5	582.5	645.5	645.5	767	767	913	913
n	137	155	176	176	193	215	257	257	315	315
n1	112	121	132	132	147	158	179	179	219	219
p1	437	446	457	457	472	483	504	504	544	544

Terminal Box Positions



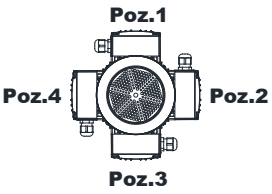
71-80-90-100-112-132-160
Type

DR472.01
DR473.01

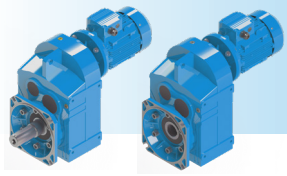


	71	80	90S	90L	100L	112M	132S	132M	160M	160L
k	510	544	583	583	631	655	742	742	838	838
k1	601	637	687.5	687.5	750.5	759.5	872	872	1018	1018
n	137	155	176	176	193	215	257	257	315	315
n1	112	121	132	132	147	158	179	179	219	219
p1	437	446	457	457	472	483	504	504	544	544

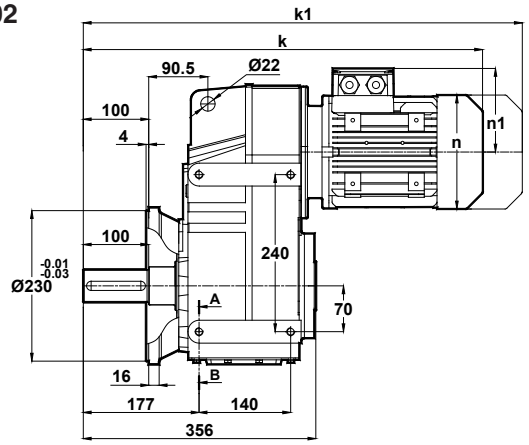
Terminal Box Positions

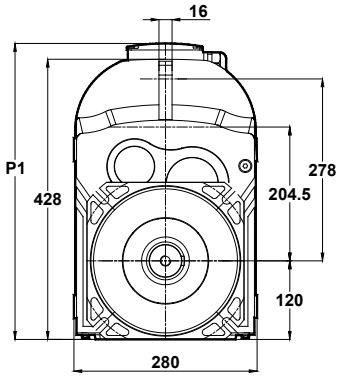


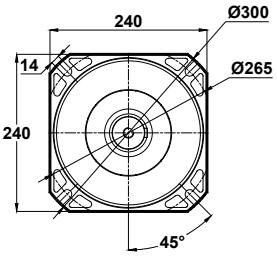
71-80-90-100-112-132-160
Type

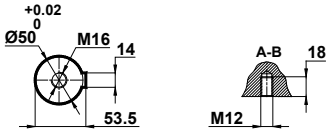


DR472.02
DR473.02

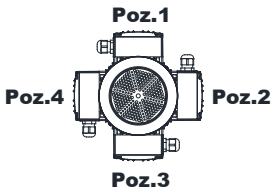






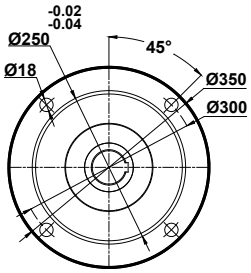


Terminal Box Positions



71-80-90-100-112-132 -160
Type

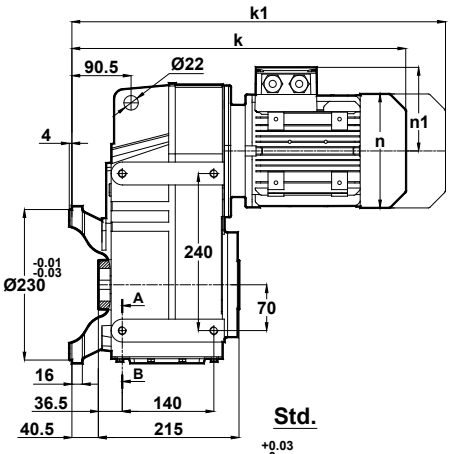
Optional Flange Dimensions

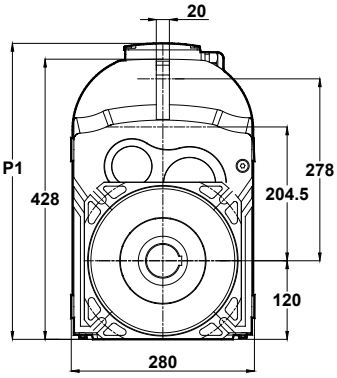


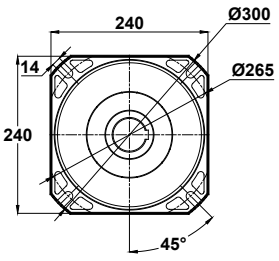
	71	80	90S	90L	100L	112M	132S	132M	160M	160L
k	545	579	618	618	666	690	777	777	873	873
k1	636	672	722.5	722.5	785.5	794.5	907	907	1053	1053
n	137	155	176	176	193	215	257	257	315	315
n1	112	121	132	132	147	158	179	179	219	219
p1	437	446	457	457	472	483	504	504	544	544

Please see on page 318 for other optional flange dimensions

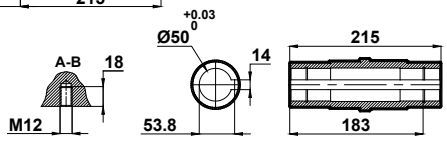
DR472.03
DR473.03



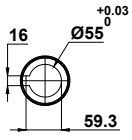




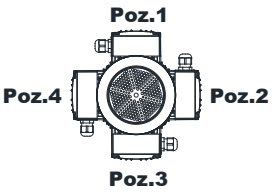
Std.



Ops.

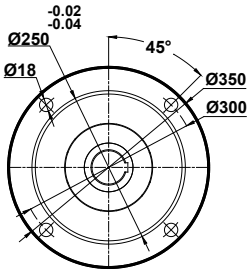


Terminal Box Positions



71-80-90-100-112-132-160
Type

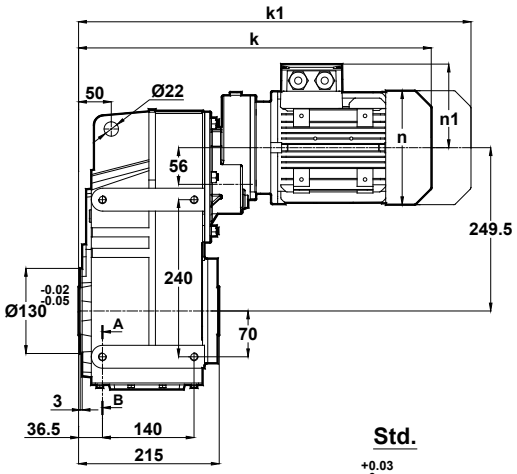
Optional Flange Dimensions

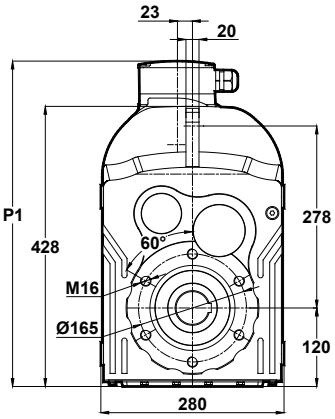


	71	80	90S	90L	100L	112M	132S	132M	160M	160L
k	445	479	518	518	566	590	677	677	773	773
k1	536	572	622.5	622.5	685.5	694.5	807	807	953	953
n	137	155	176	176	193	215	257	257	315	315
n1	112	121	132	132	147	158	179	179	219	219
p1	437	446	457	457	472	483	504	504	544	544

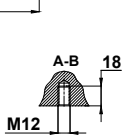
Please see on page 318 for other optional flange dimensions

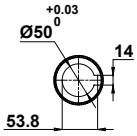
DR474.00

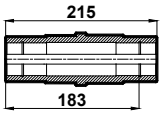




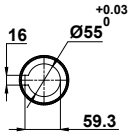
Std.





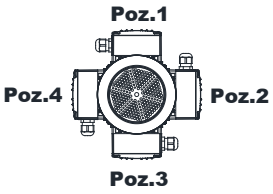


Ops.



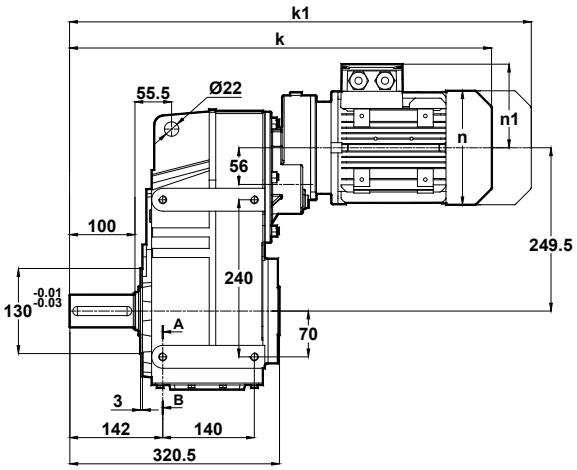
	63	71	80
k	456	484	518
k1	517	575	611
n	121	137	155
n1	97	112	121
p1	467	482	491

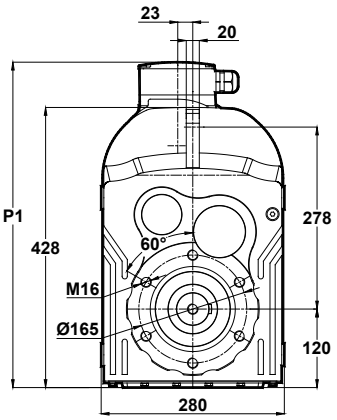
Terminal Box Positions

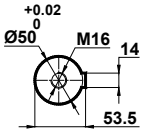


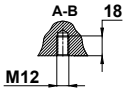
63-71-80
Type

DR474.01



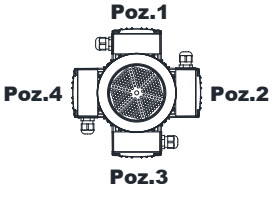




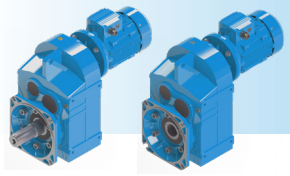


	63	71	80
k	561	589	623
k1	622	680	716
n	121	137	155
n1	97	112	121
p1	467	482	491

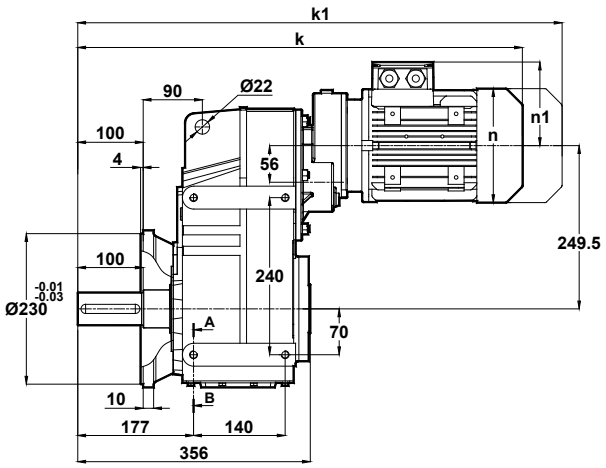
Terminal Box Positions

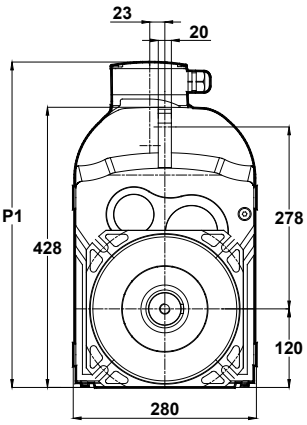


63-71-80
Type

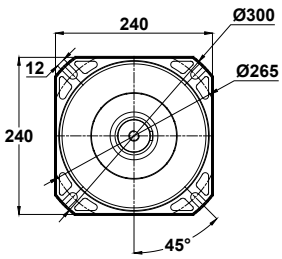


DR474.02

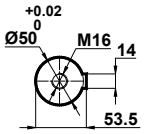


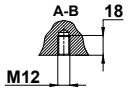


Terminal Box Positions

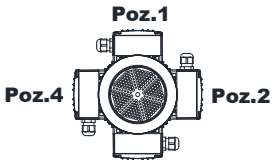


Optional Flange Dimensions

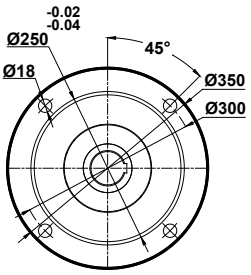




	63	71	80
k	596	624	658
k1	657	715	751
n	121	137	155
n1	97	112	121
p1	467	482	491

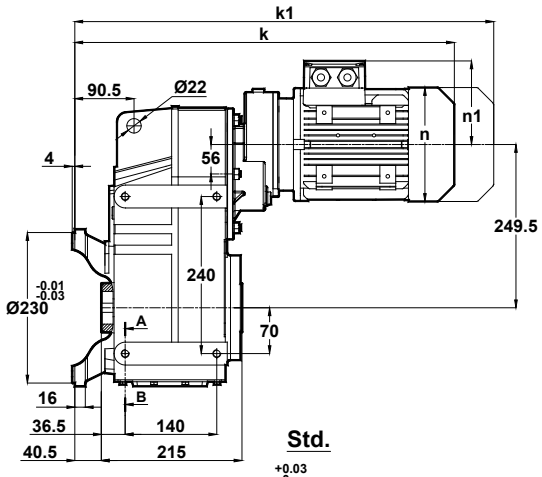


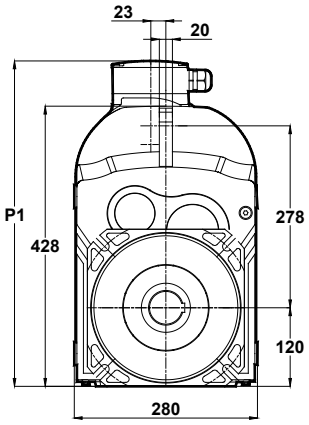
63-71-80
Type



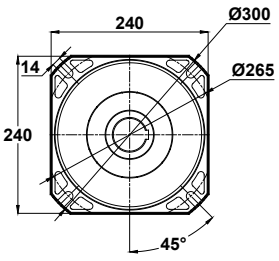
Please see on page 318 for other optional flange dimensions

DR474.03



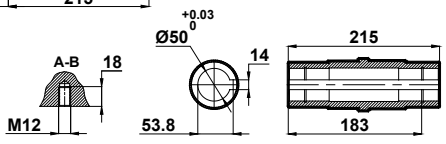


Terminal Box Positions

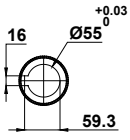


Optional Flange Dimensions

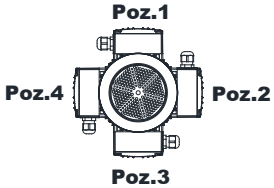
Std.



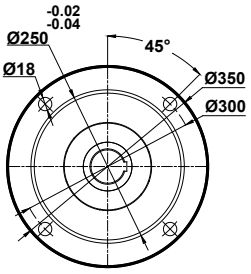
Ops.



	63	71	80
k	496	524	558
k1	557	615	651
n	121	137	155
n1	97	112	121
p1	467	482	491

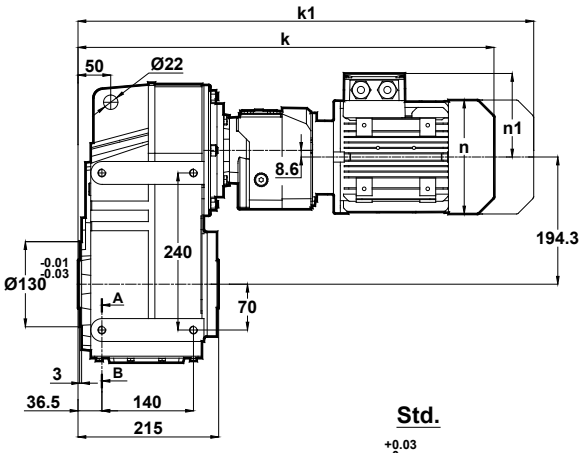


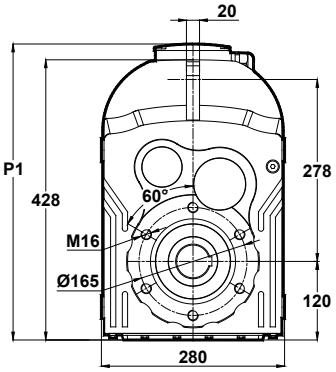
63-71-80
Type



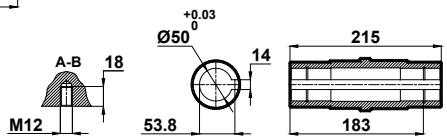
Please see on page 318 for other optional flange dimensions

DR475.00
DR476.00

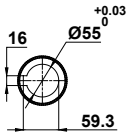




Std.

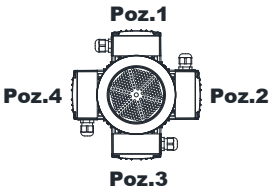


Ops.



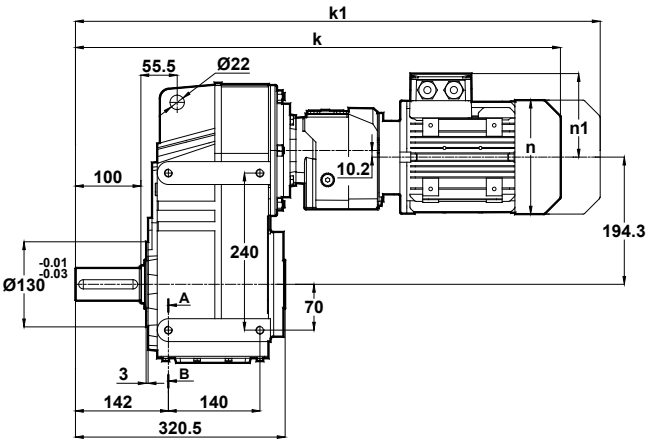
	63	71
k	558	585
k1	618	676
n	121	137
n1	97	112
p1	-	-

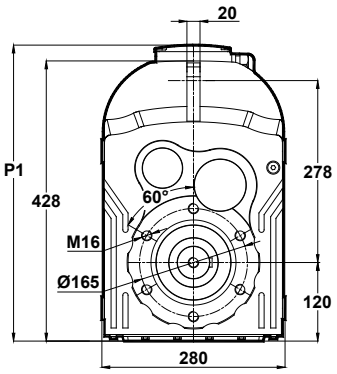
Terminal Box Positions

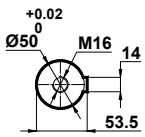


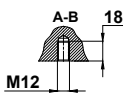
63-71
Type

DR475.01
DR476.01



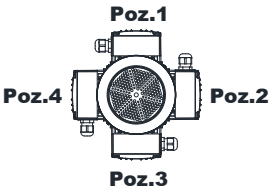




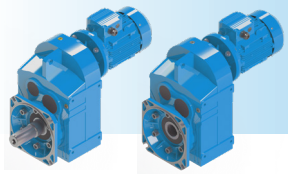


	63	71
k	663	690
k1	724	781
n	121	137
n1	97	112
p1	-	-

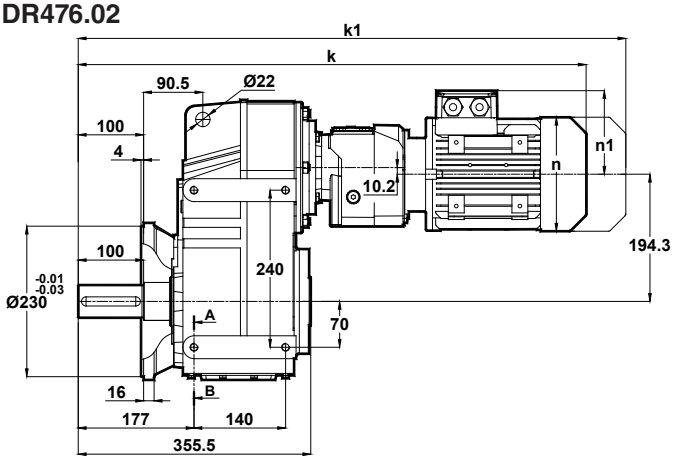
Terminal Box Positions

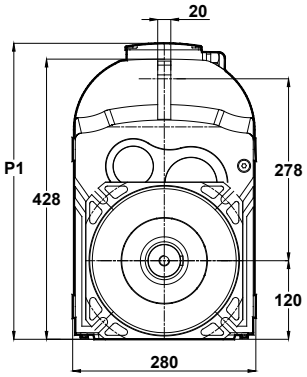


63-71
Type

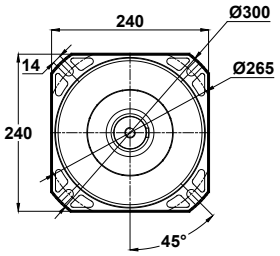


DR475.02
DR476.02

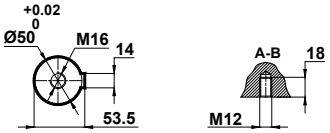


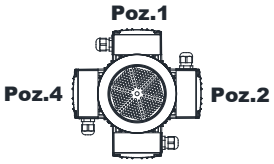


Terminal Box Positions

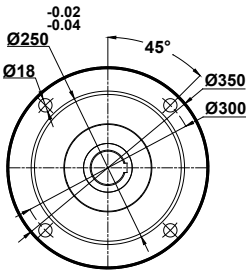


Optional Flange Dimensions





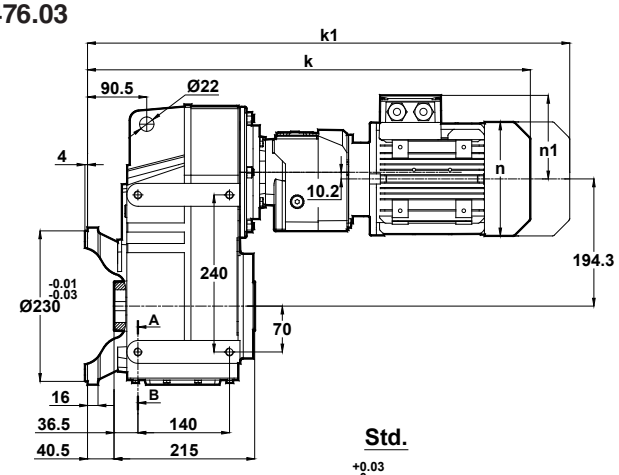
63-71
Type

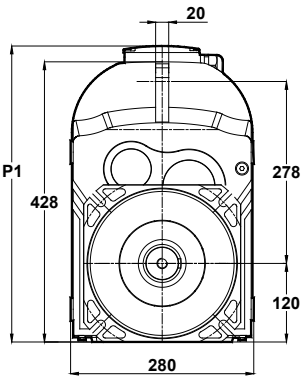


	63	71
k	698	725
k1	759	816
n	121	137
n1	97	112
p1	-	-

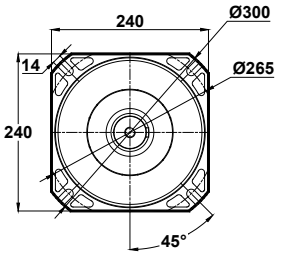
Please see on page 318 for other optional flange dimensions

DR475.03
DR476.03



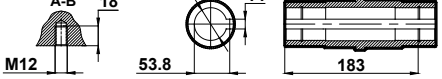


Terminal Box Positions

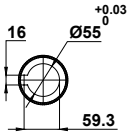


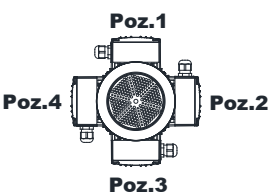
Optional Flange Dimensions

Std.

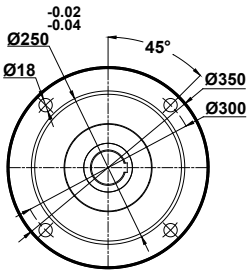


Ops.





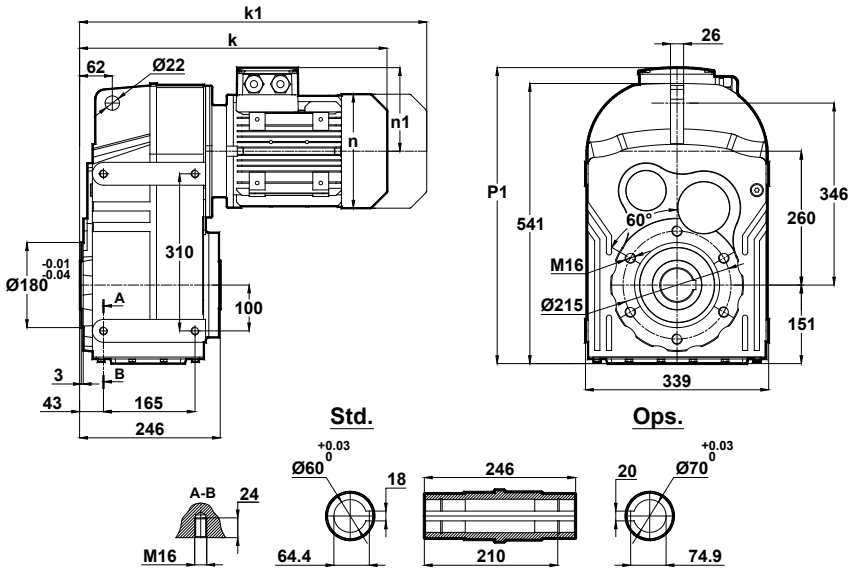
63-71
Type



	63	71
k	598	625
k1	659	716
n	121	137
n1	97	112
p1	-	-

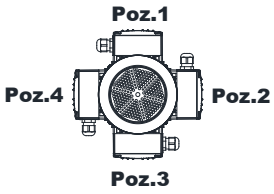
Please see on page 318 for other optional flange dimensions

DR572.00
DR573.00



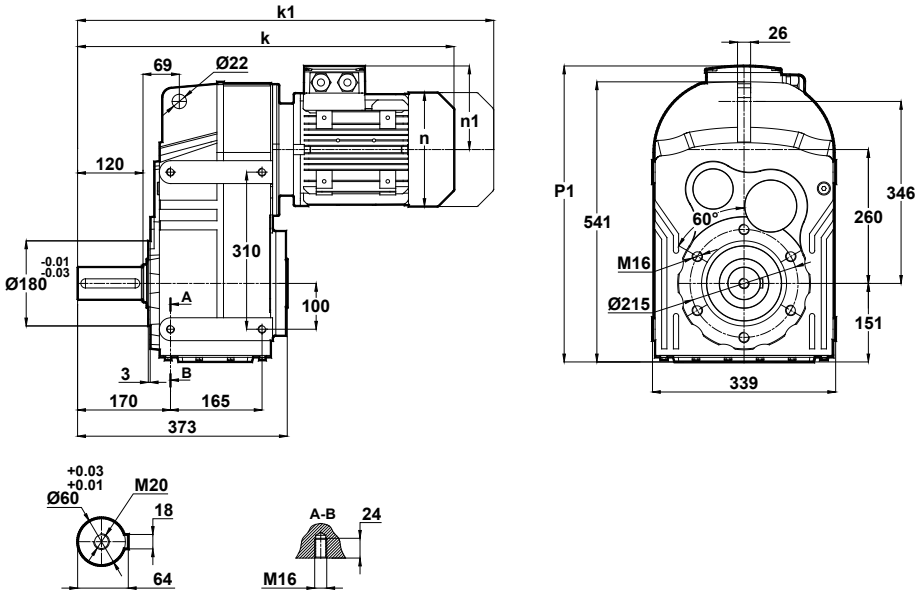
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	461	500	500	544	569	654	654	750	750	821	821
k1	554	604.5	604.5	663.5	673.5	784	784	930	930	991.5	991.5
n	155	176	176	193	215	257	257	315	315	347	347
n1	121	132	132	147	158	179	179	219	219	234	234
p1	-	543	543	558	569	590	590	636	636	655	655

Terminal Box Positions



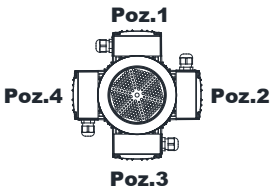
80-90-100-112-132-160-180
Type

DR572.01
DR573.01

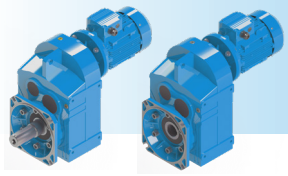


	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	588	627	627	671	696	781	781	877	877	948	948
k1	681	731.5	731.5	790.5	800.5	911	911	1057	1057	1118.5	1118.5
n	155	176	176	193	215	257	257	315	315	347	347
n1	121	132	132	147	158	179	179	219	219	234	234
p1	-	543	543	558	569	590	590	636	636	655	655

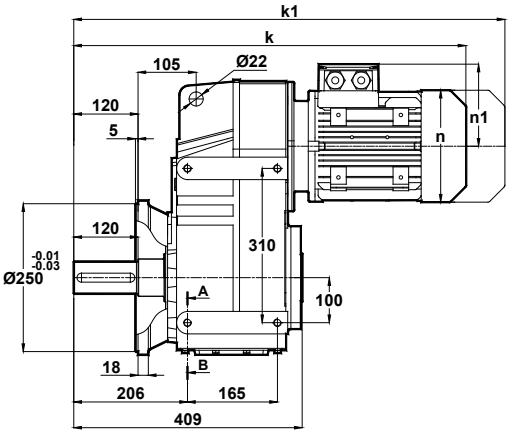
Terminal Box Positions

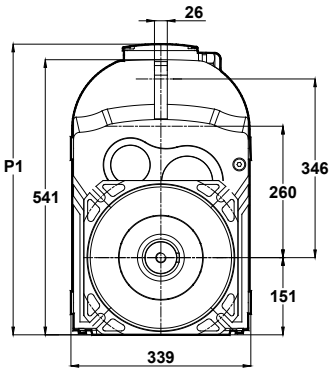


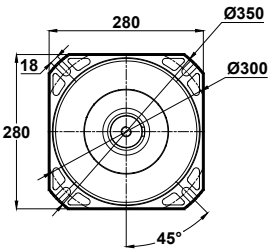
80-90-100-112-132-160-180
Type

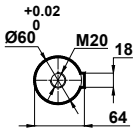


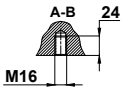
DR572.02
DR573.02



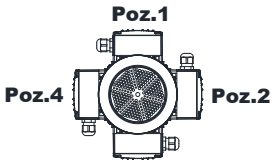






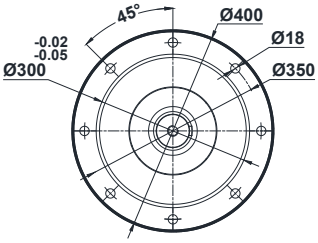


Terminal Box Positions



80-90-100-112-132-160-180
Type

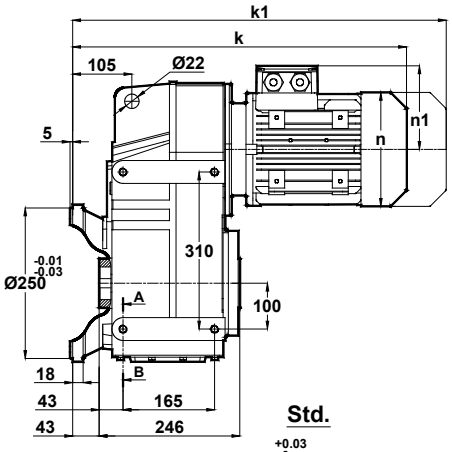
Optional Flange Dimensions



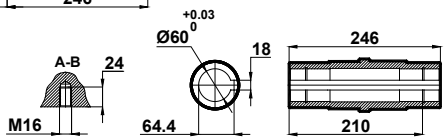
Please see on page 318 for other optional flange dimensions

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	624	663	663	707	732	817	817	913	913	984	984
k1	717	767.5	767.5	826.5	836.5	947	947	1093	1093	1154.5	1154.5
n	155	176	176	193	215	257	257	315	315	347	347
n1	121	132	132	147	158	179	179	219	219	234	234
p1	-	543	543	558	569	590	590	636	636	655	655

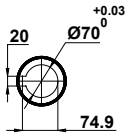
DR572.03
DR573.03

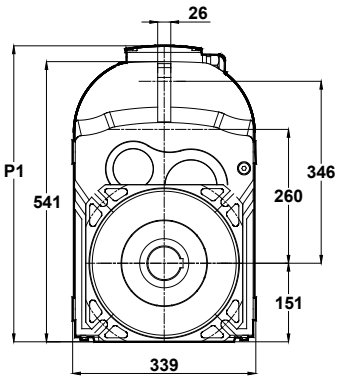


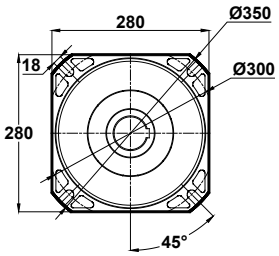
Std.



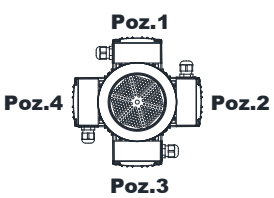
Ops.





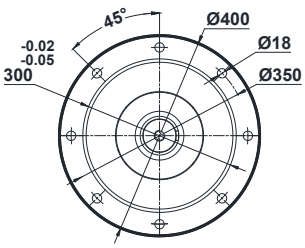


Terminal Box Positions



80-90-100-112-132-160-180
Type

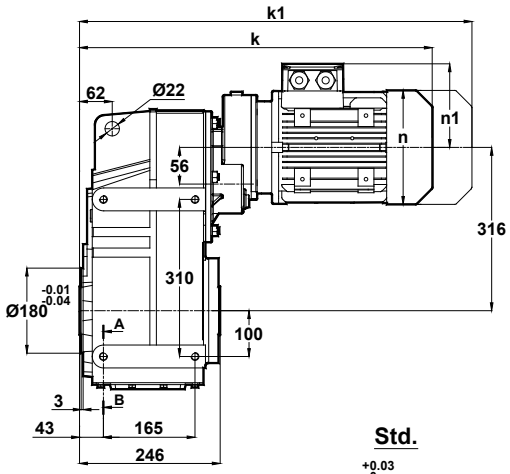
Optional Flange Dimensions

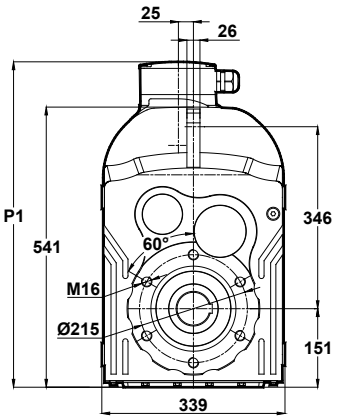


Please see on page 318 for other optional flange dimensions

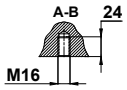
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	504	543	543	587	612	697	697	793	793	864	864
k1	597	647.5	647.5	706.5	716.5	827	827	973	973	1034.5	1034.5
n	155	176	176	193	215	257	257	315	315	347	347
n1	121	132	132	147	158	179	179	219	219	234	234
p1	-	543	543	558	569	590	590	636	636	655	655

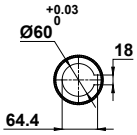
DR574.00

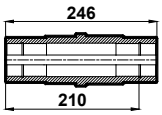




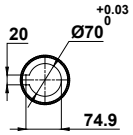
Std.



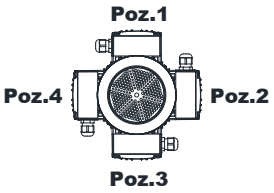




Ops.



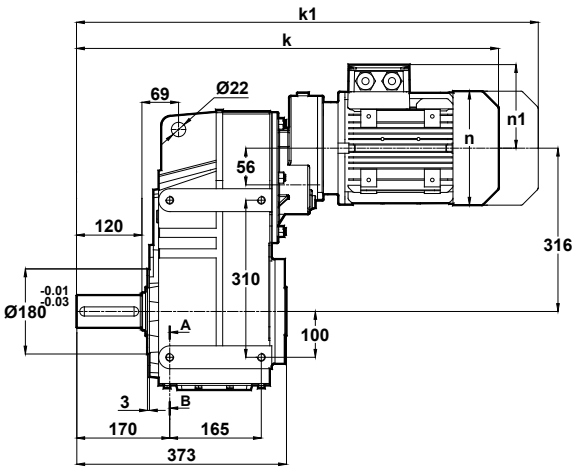
Terminal Box Positions

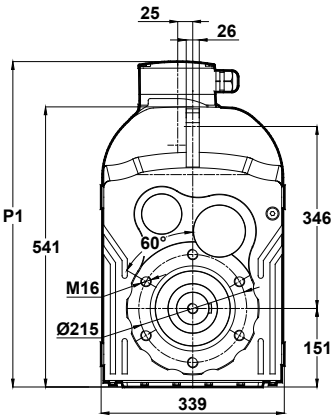


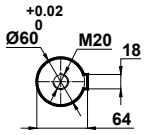
71-80-90
Type

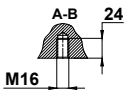
	71	80	90S	90L
k	520	554	593	593
k1	611	647	697.5	697.5
n	137	155	176	176
n1	112	121	132	132
p1	579	588	599	599

DR574.01

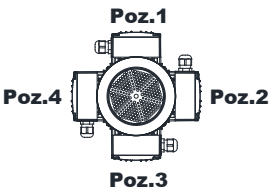






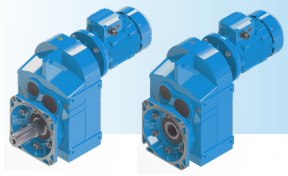


Terminal Box Positions

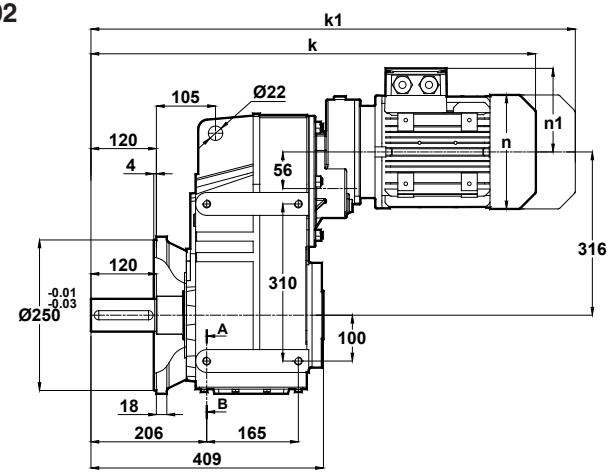


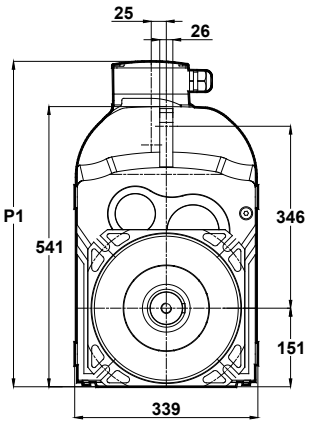
71-80-90
Type

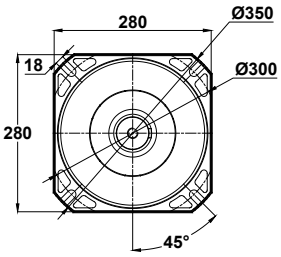
	71	80	90S	90L
k	647	681	720	720
k1	738	774	824.5	824.5
n	137	155	176	176
n1	112	121	132	132
p1	579	588	599	599

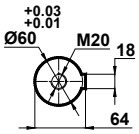


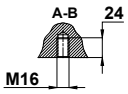
DR574.02





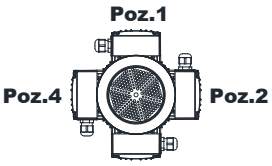






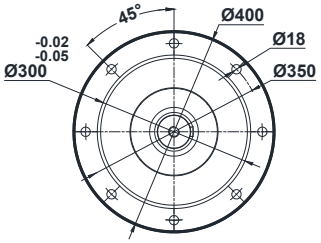
	71	80	90S	90L
k	683	717	756	756
k1	774	810	860.5	860.5
n	137	155	176	176
n1	112	121	132	132
p1	579	588	599	599

Terminal Box Positions



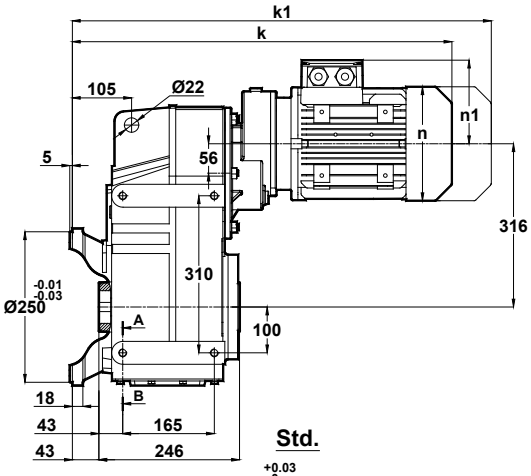
71-80-90
Type

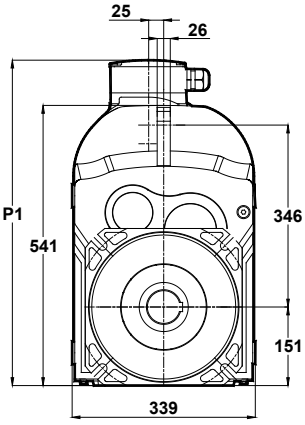
Optional Flange Dimensions

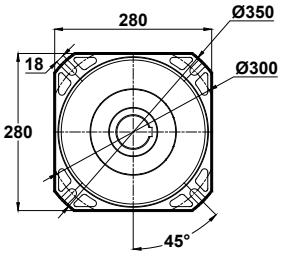


Please see on page 318 for other optional flange dimensions

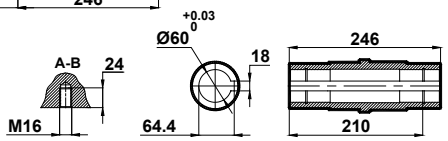
DR574.03



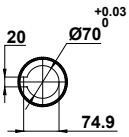




Std.

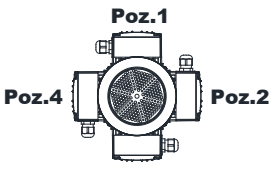


Ops.



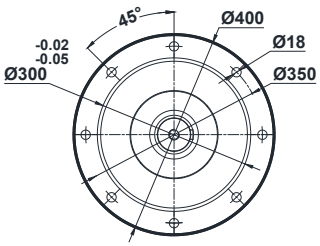
	71	80	90S	90L
k	563	597	636	636
k1	654	690	740.5	740.5
n	137	155	176	176
n1	112	121	132	132
p1	579	588	599	599

Terminal Box Positions



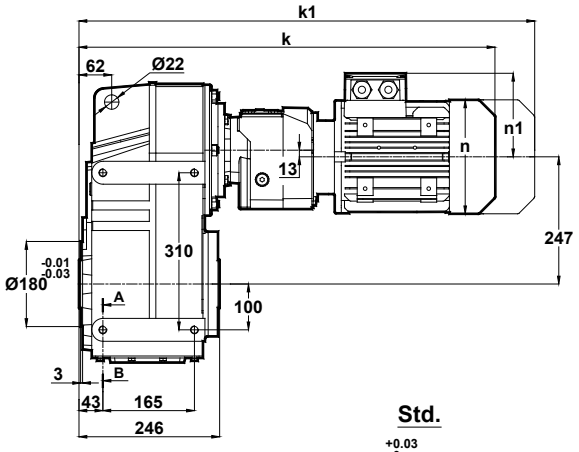
71-80-90
Type

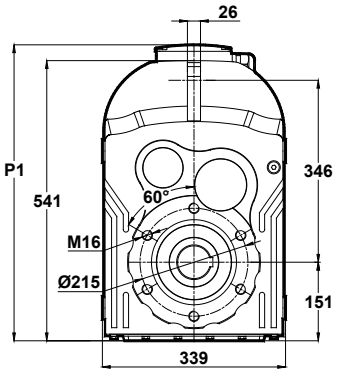
Optional Flange Dimensions

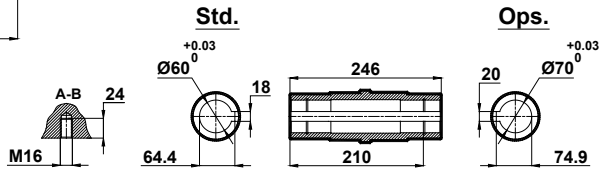


Please see on page 318 for other optional flange dimensions

DR575.00
DR576.00

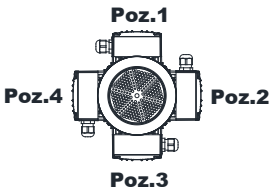






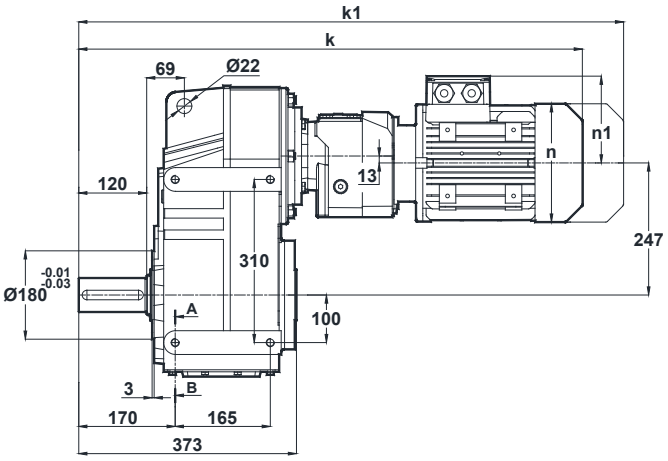
	63	71
k	622	650
k1	683	741
n	121	137
n1	97	112
p1	-	-

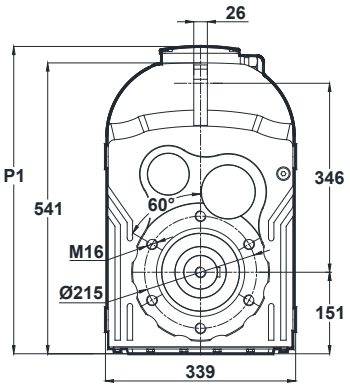
Terminal Box Positions

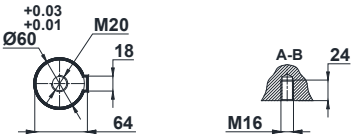


63-71
Type

DR575.01
DR576.01

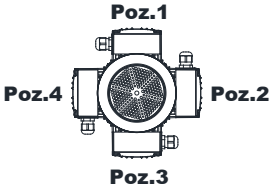




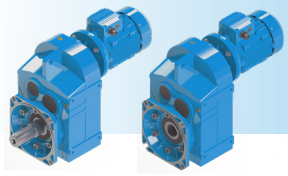


	63	71
k	749	777
k1	810	868
n	121	137
n1	97	112
p1	-	-

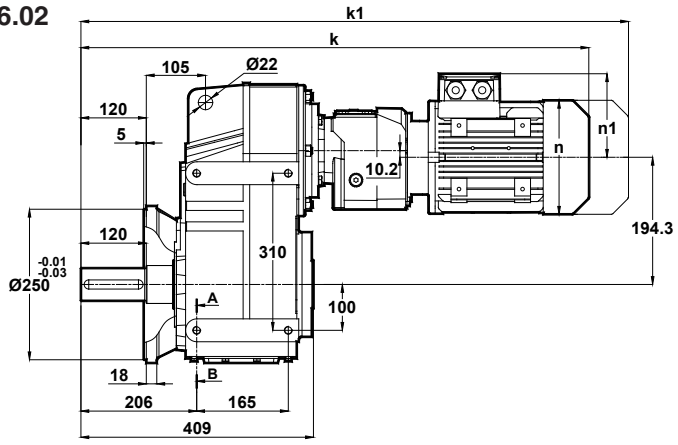
Terminal Box Positions

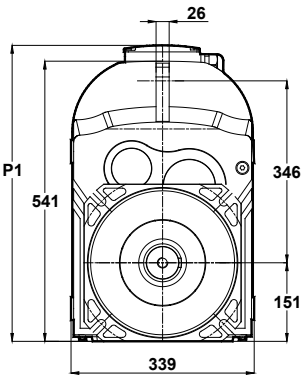


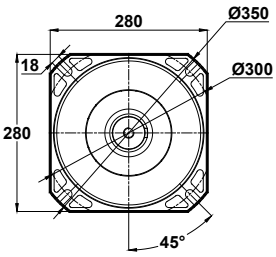
63-71
Type



DR575.02
DR576.02

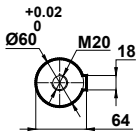


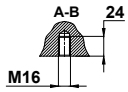


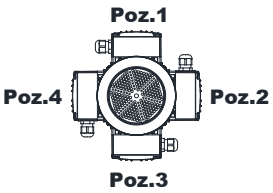


Terminal Box Positions

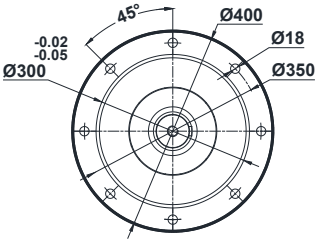
Optional Flange Dimensions







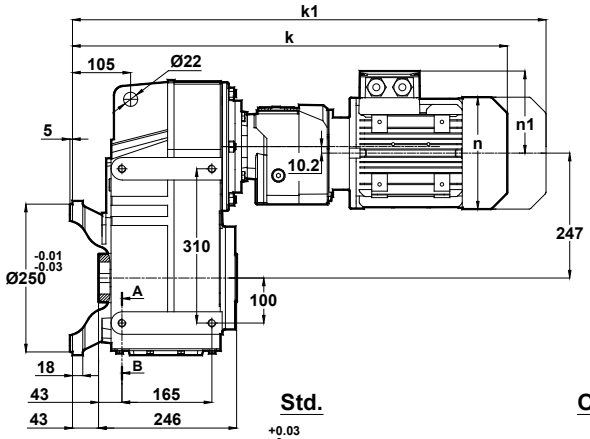
63-71
Type

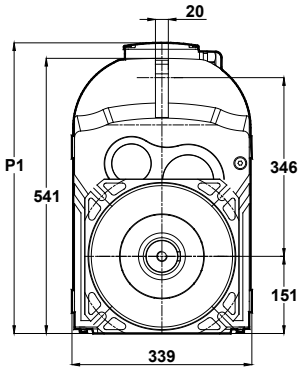


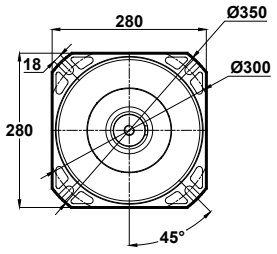
	63	71
k	785	813
k1	846	904
n	121	137
n1	97	112
p1	-	-

Please see on page 318 for other optional flange dimensions

DR575.03
DR576.03



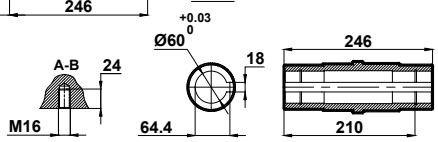




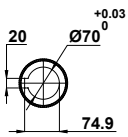
Terminal Box Positions

Optional Flange Dimensions

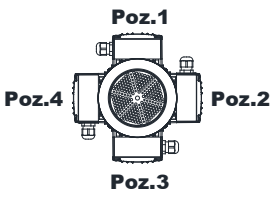
Std.



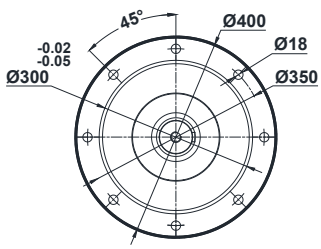
Ops.



	63	71
k	665	693
k1	726	784
n	121	137
n1	97	112
p1	-	-

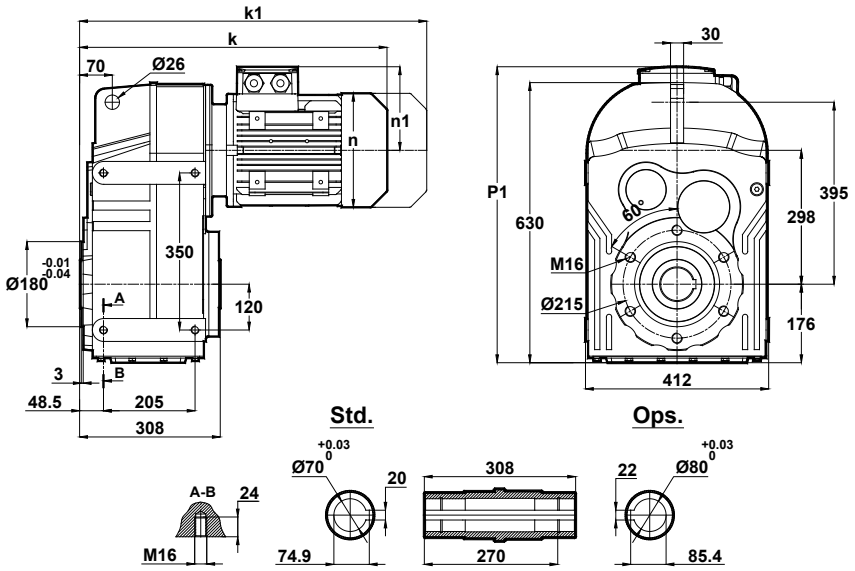


63-71
Type



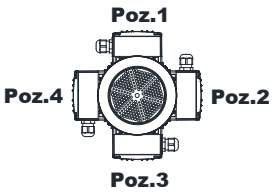
Please see on page 318 for other optional flange dimensions

DR672.00
DR673.00



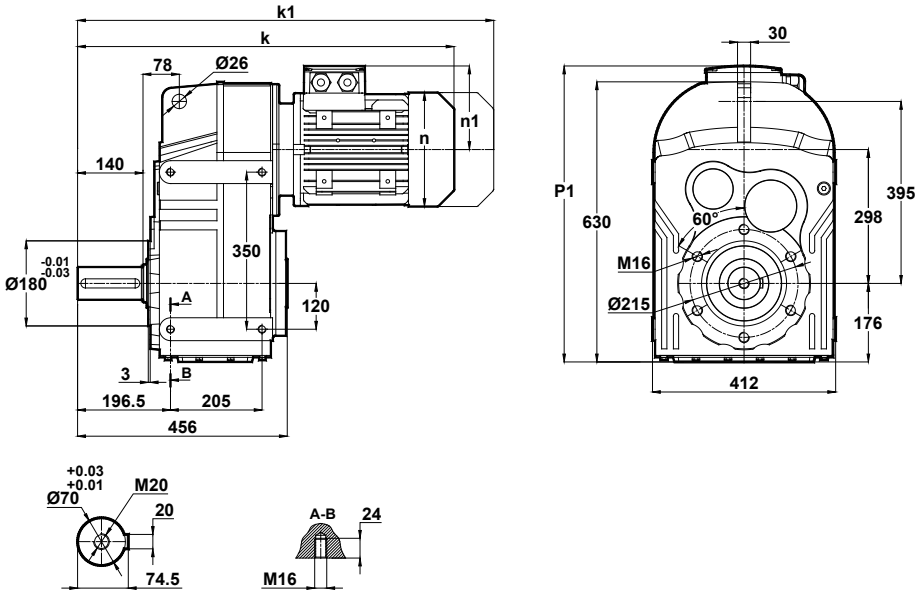
	100L	112M	132S	132M	160M	160L	180M	180L	200L
k	593	617	704	704	800	800	871	871	913
k1	712.5	721.5	834	834	980	980	1041.5	1041.5	1099.5
n	193	215	257	257	315	315	347	347	390
n1	147	158	179	179	219	219	234	234	275
p1	-	632	653	653	699	699	718	718	749

Terminal Box Positions



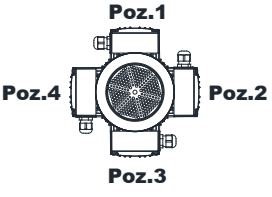
100-112-132-160-180-200
Type

DR672.01
DR673.01



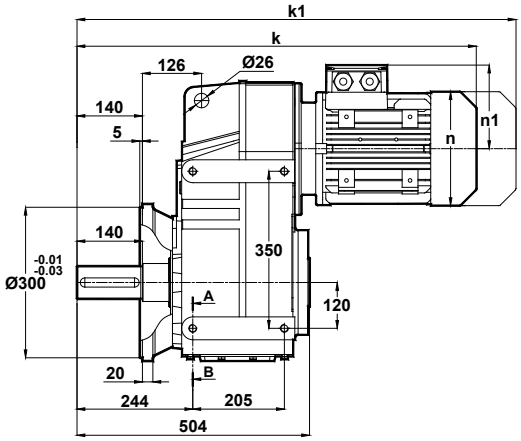
	100L	112M	132S	132M	160M	160L	180M	180L	200L
k	741	765	852	852	948	948	1019	1019	1061
k1	860.5	869.5	982	982	1128	1128	1189.5	1189.5	1247.5
n	193	215	257	257	315	315	347	347	390
n1	147	158	179	179	219	219	234	234	275
p1	-	632	653	653	699	699	718	718	749

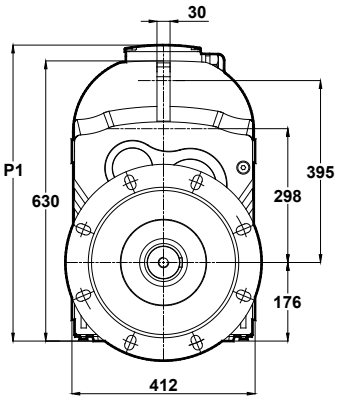
Terminal Box Positions

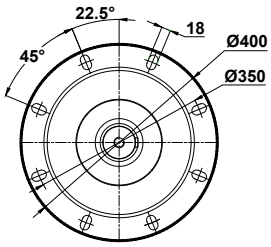


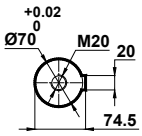
100-112-132-160-180-200
Type

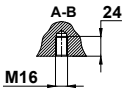
DR672.02
DR673.02



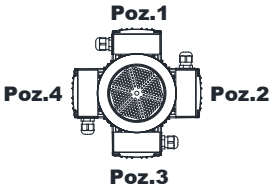






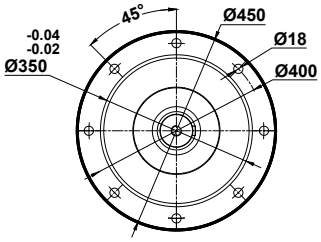


Terminal Box Positions



100-112-132-160-180-200
Type

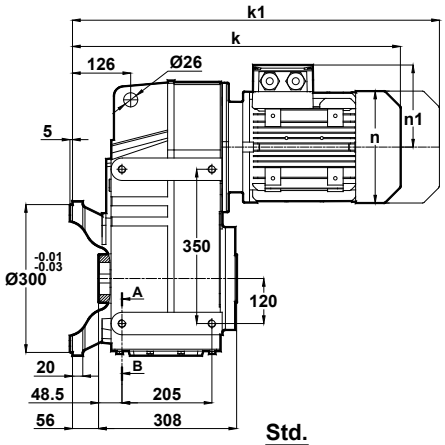
Optional Flange Dimensions

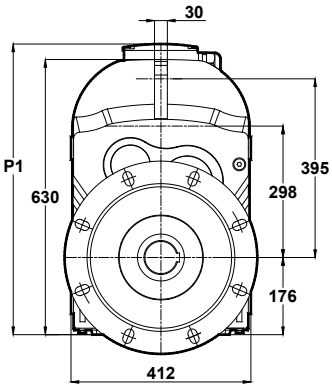


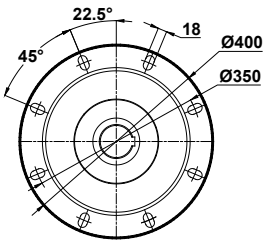
	100L	112M	132S	132M	160M	160L	180M	180L	200L
k	789	813	900	900	996	996	1067	1067	1109
k1	908.5	917.5	1030	1030	1176	1176	1237.5	1237.5	1295.5
n	193	215	257	257	315	315	347	347	390
n1	147	158	179	179	219	219	234	234	275
p1	-	632	653	653	699	699	718	718	749

Please see on page 318 for other optional flange dimensions

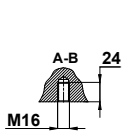
DR672.03
DR673.03

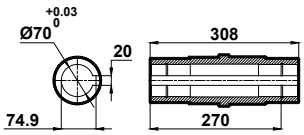




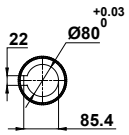


Std.

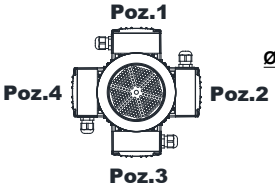




Ops.

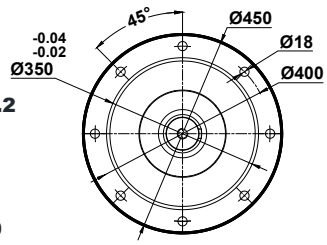


Terminal Box Positions



100-112-132-160-180-200
Type

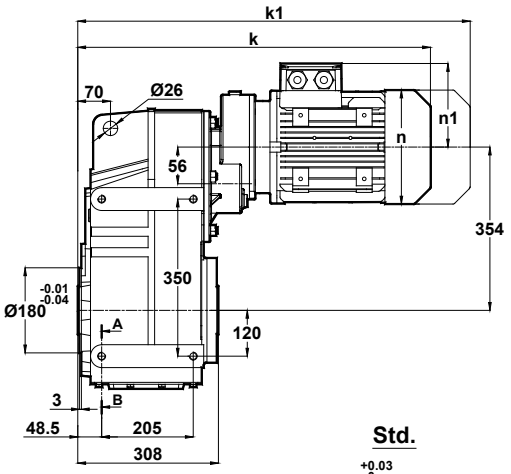
Optional Flange Dimensions

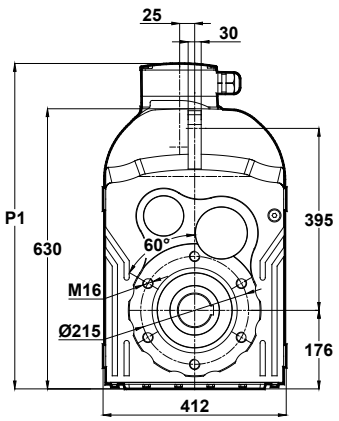


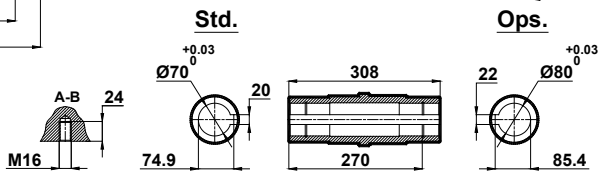
	100L	112M	132S	132M	160M	160L	180M	180L	200L
k	649	673	760	760	856	856	927	927	969
k1	768.5	777.5	890	890	1036	1036	1097.5	1097.5	1155.5
n	193	215	257	257	315	315	347	347	390
n1	147	158	179	179	219	219	234	234	275
p1	-	632	653	653	699	699	718	718	749

Please see on page 318 for other optional flange dimensions

DR674.00

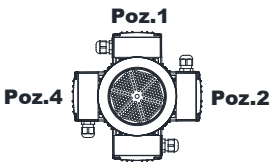






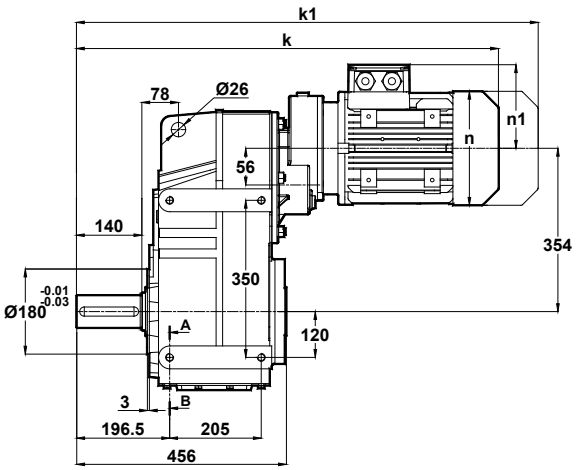
	71	80	90S	90L
k	573	607	646	646
k1	664	700	750.5	750.5
n	137	155	176	176
n1	112	121	132	132
p1	642	651	662	662

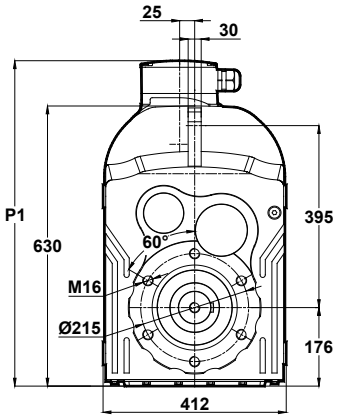
Terminal Box Positions

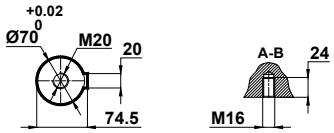


71-80-90
Type

DR674.01

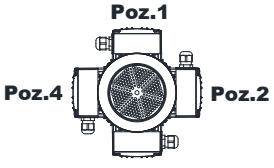






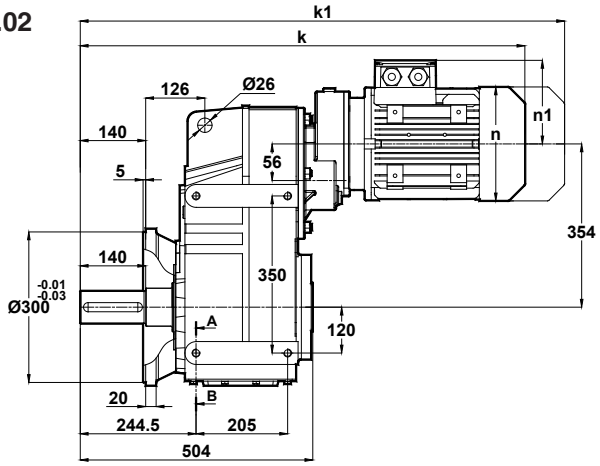
	71	80	90S	90L
k	721	755	794	794
k1	812	848	898.5	898.5
n	137	155	176	176
n1	112	121	132	132
p1	642	651	662	662

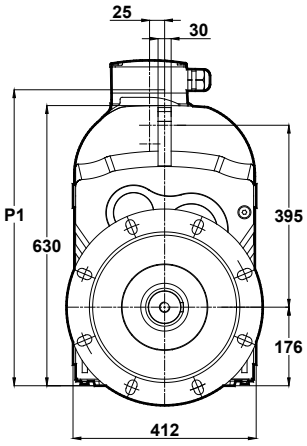
Terminal Box Positions

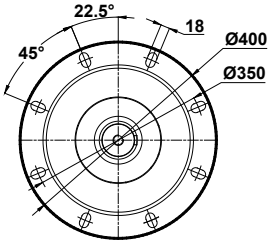


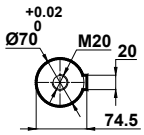
71-80-90
Type

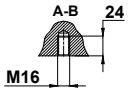
DR674.02





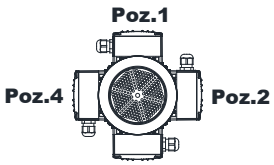




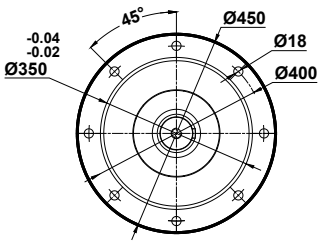


Terminal Box Positions

Optional Flange Dimensions



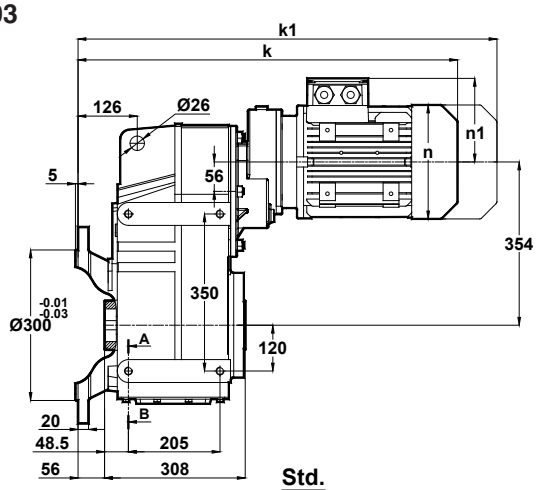
71-80-90
Type

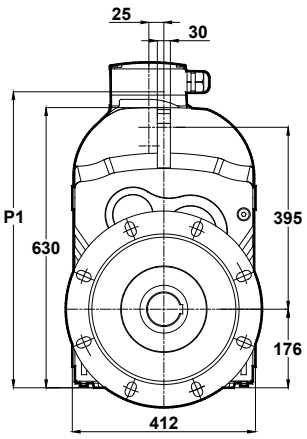


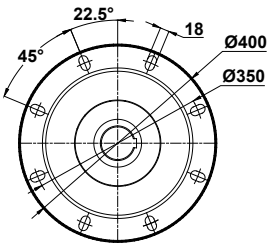
	71	80	90S	90L
k	769	803	842	842
k1	860	896	946.5	946.5
n	137	155	176	176
n1	112	121	132	132
p1	642	651	662	662

Please see on page 318 for other optional flange dimensions

DR674.03

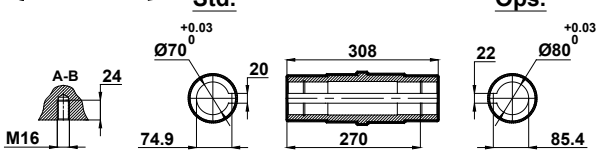






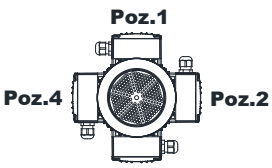
Std.

Ops.

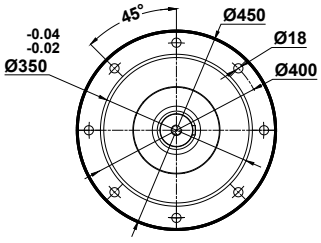


Terminal Box Positions

Optional Flange Dimensions



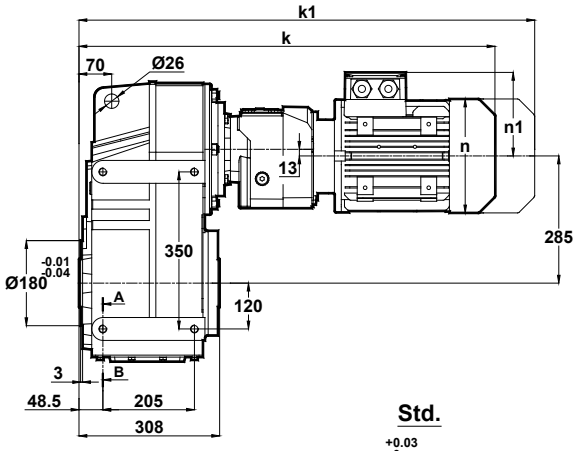
71-80-90
Type

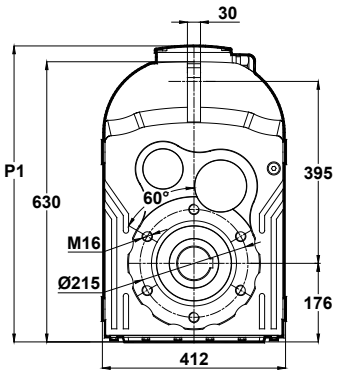


	71	80	90S	90L
k	629	663	702	702
k1	720	756	806.5	806.5
n	137	155	176	176
n1	112	121	132	132
p1	642	651	662	662

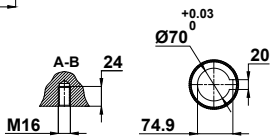
Please see on page 318 for other optional flange dimensions

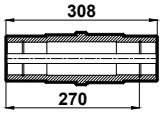
DR675.00
DR676.00



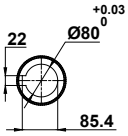


Std.



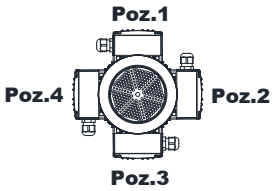


Ops.



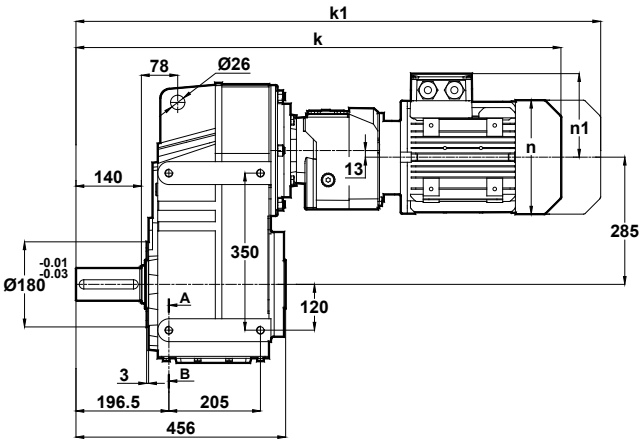
	63	71	80
k	677	705	739
k1	738	796	832
n	121	137	155
n1	97	112	121
p1	-	-	-

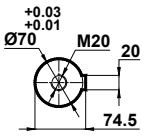
Terminal Box Positions

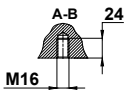


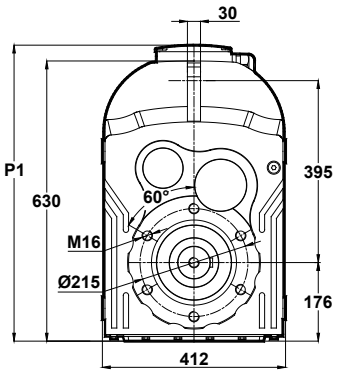
63-71-80
Type

DR675.01
DR676.01



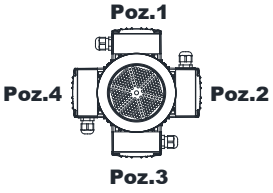




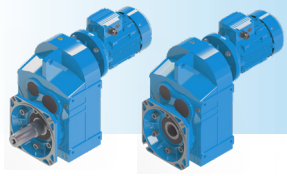


	63	71	80
k	825	853	887
k1	886	944	980
n	121	137	155
n1	97	112	121
p1	-	-	-

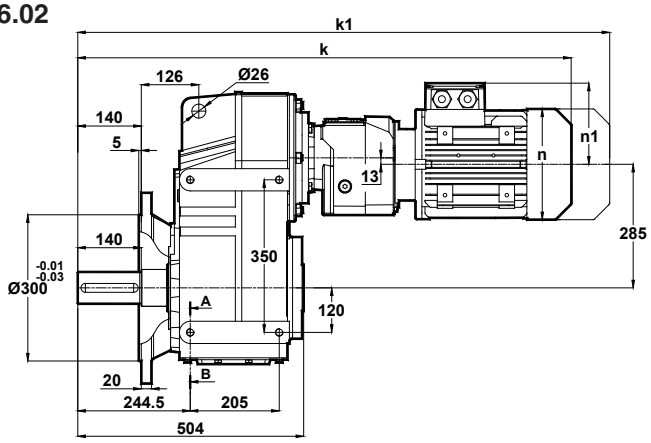
Terminal Box Positions

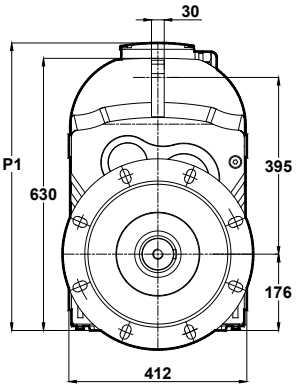


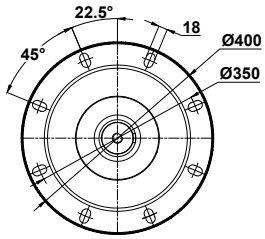
63-71-80
Type

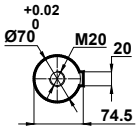


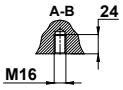
DR675.02
DR676.02





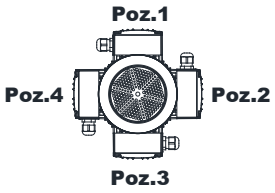






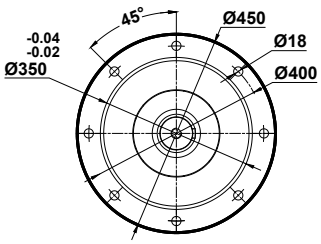
	63	71	80
k	873	901	935
k1	934	992	1028
n	121	137	155
n1	97	112	121
p1	-	-	-

Terminal Box Positions



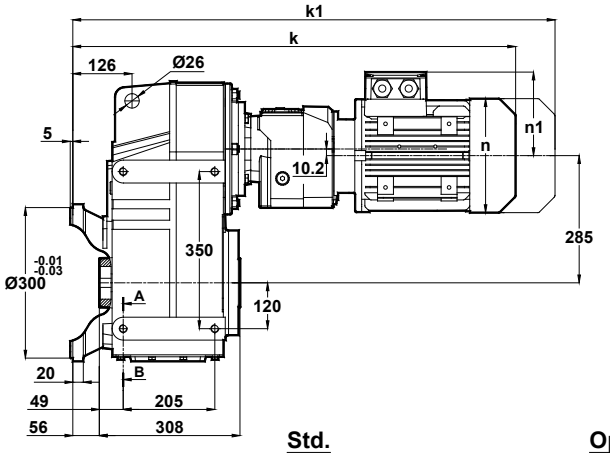
63-71-80
Type

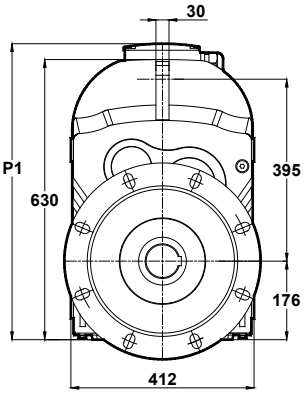
Optional Flange Dimensions

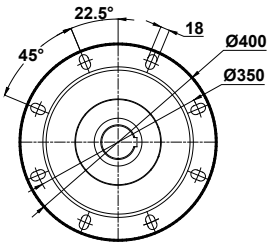


Please see on page 318 for other optional flange dimensions

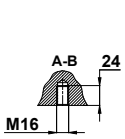
DR675.03
DR676.03

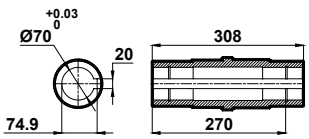




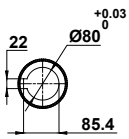


Std.



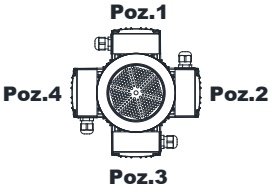


Ops.



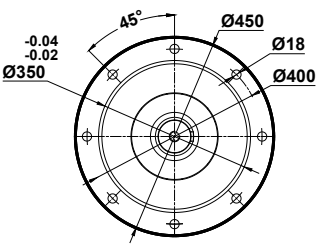
	63	71	80
k	733	761	795
k1	794	852	888
n	121	137	155
n1	97	112	121
p1	-	-	-

Terminal Box Positions



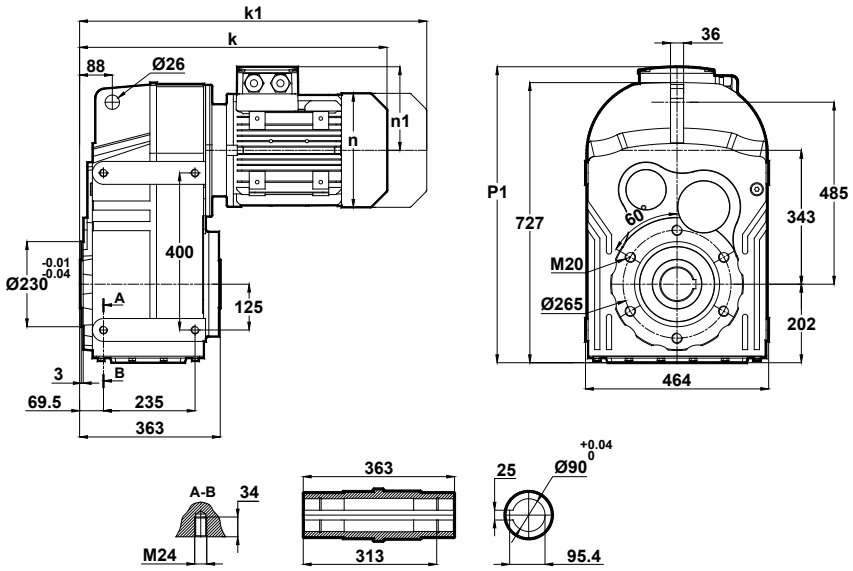
63-71-80
Type

Optional Flange Dimensions



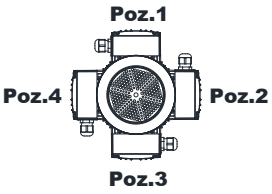
Please see on page 318 for other optional flange dimensions

DR772.00
DR773.00



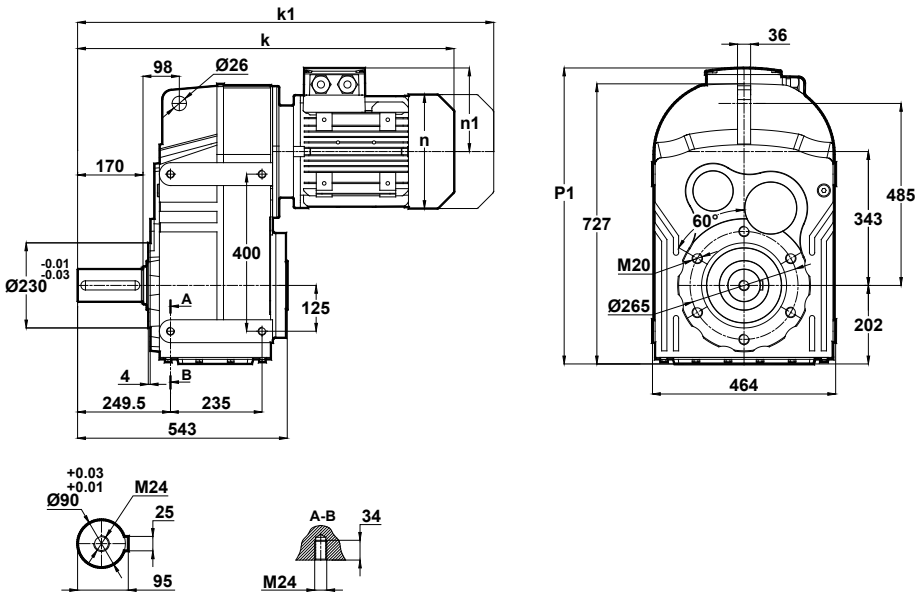
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	585	655	742	742	838	838	909	909	951	977	1002
k1	704.5	759.5	872	872	1018	1018	1079.5	1079.5	1137.5	1142	1167
n	193	215	257	257	315	315	347	347	390	434	434
n1	147	158	179	179	219	219	234	234	275	285	285
p1	-	-	724	724	770	770	789	789	820	830	830

Terminal Box Positions



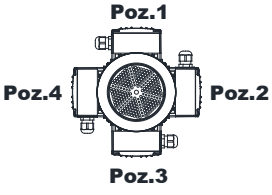
100-112-132-160-180-200-225
Type

DR772.01
DR773.01

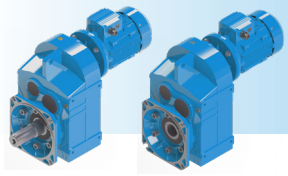


	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	733	835	922	922	1018	1018	1089	1089	1131	1157	1182
k1	852.5	939.5	1052	1052	1198	1198	1259.5	1259.5	1317.5	1322	1347
n	193	215	257	257	315	315	347	347	390	434	434
n1	147	158	179	179	219	219	234	234	275	285	285
p1	-	-	724	724	770	770	789	789	820	830	830

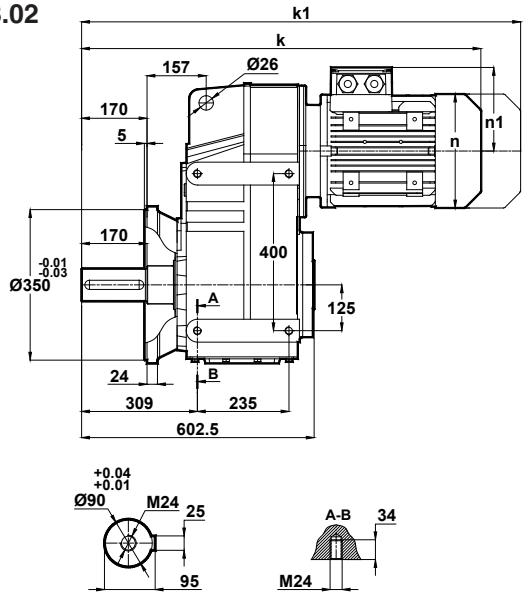
Terminal Box Positions

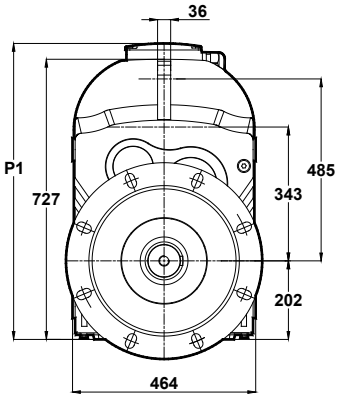


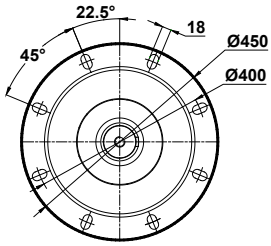
100-112-132-160-180-200-225
Type



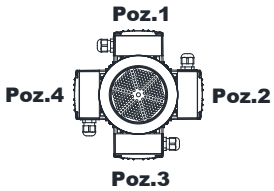
DR772.02
DR773.02







Terminal Box Positions

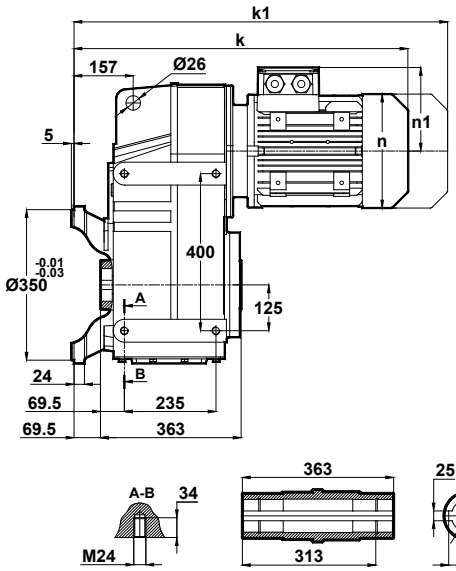


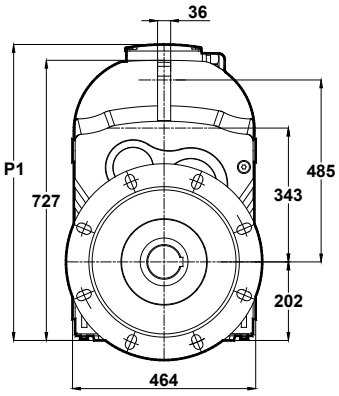
100-112-132-160-180-200-225
Type

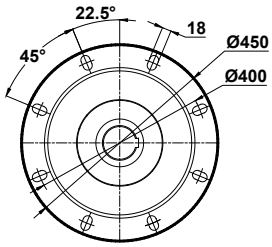
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	781	895	982	982	1078	1078	1149	1149	1191	1217	1242
k1	900.5	999.5	1112	1112	1258	1258	1319.5	1319.5	1377.5	1382	1407
n	193	215	257	257	315	315	347	347	390	434	434
n1	147	158	179	179	219	219	234	234	275	285	285
p1	-	-	724	724	770	770	789	789	820	830	830

Please see on page 318 for optional flange dimensions

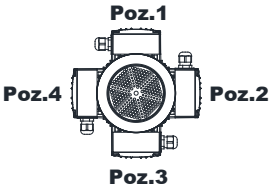
DR772.03
DR773.03







Terminal Box Positions

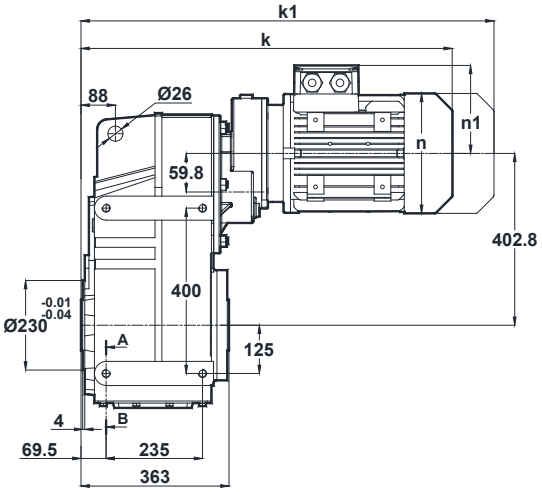


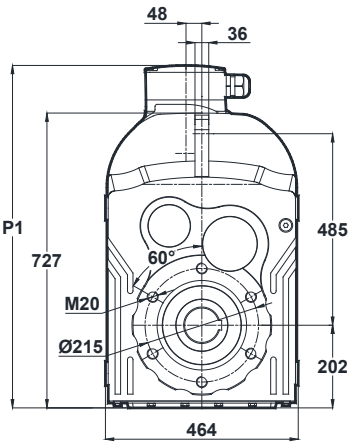
100-112-132-160-180-200-225
Type

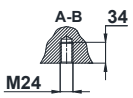
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	641	725	812	812	908	908	979	979	1021	1047	1072
k1	760.5	829.5	942	942	1088	1088	1149.5	1149.5	1207.5	1212	1237
n	193	215	257	257	315	315	347	347	390	434	434
n1	147	158	179	179	219	219	234	234	275	285	285
p1	-	-	724	724	770	770	789	789	820	830	830

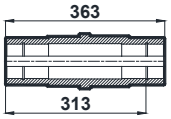
Please see on page 318 for optional flange dimensions

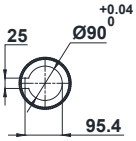
DR774.00





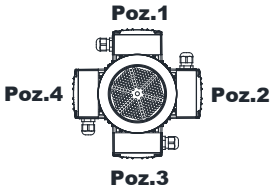






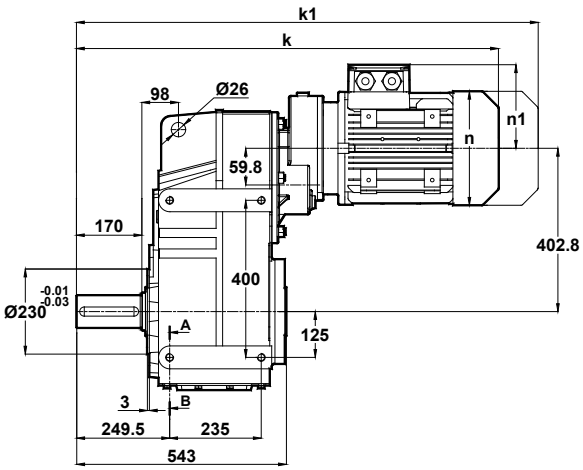
	80	90S	90L	100L
k	664	703	703	747
k1	757	807.5	807.5	866.5
n	155	176	176	193
n1	121	132	132	147
p1	-	737	737	752

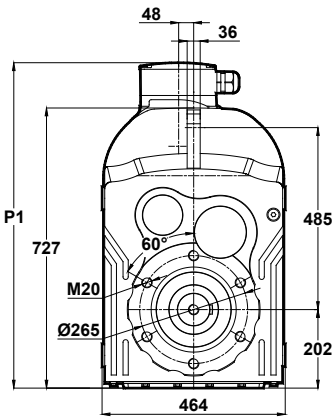
Terminal Box Positions

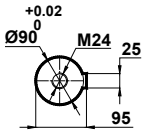


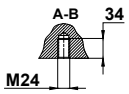
80-90-100
Type

DR774.01



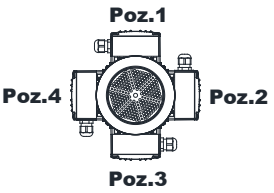




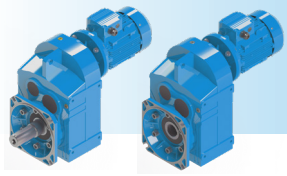


	80	90S	90L	100L
k	844	883	883	927
k1	937	987.5	987.5	1046.5
n	155	176	176	193
n1	121	132	132	147
p1	-	737	737	752

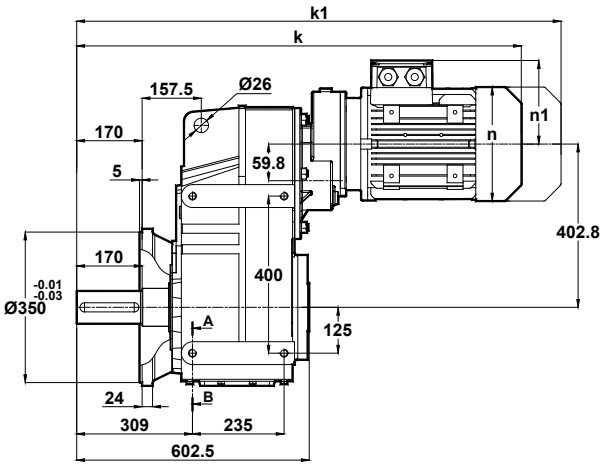
Terminal Box Positions

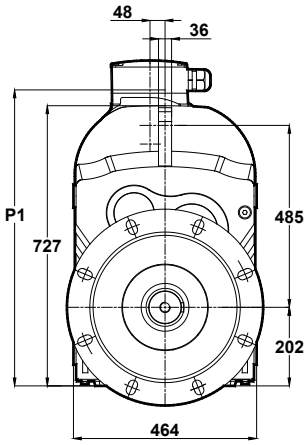


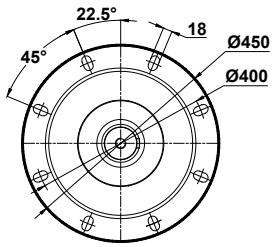
80-90-100
Type



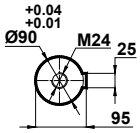
DR774.02

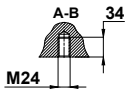


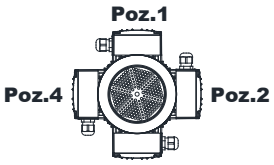




Terminal Box Positions





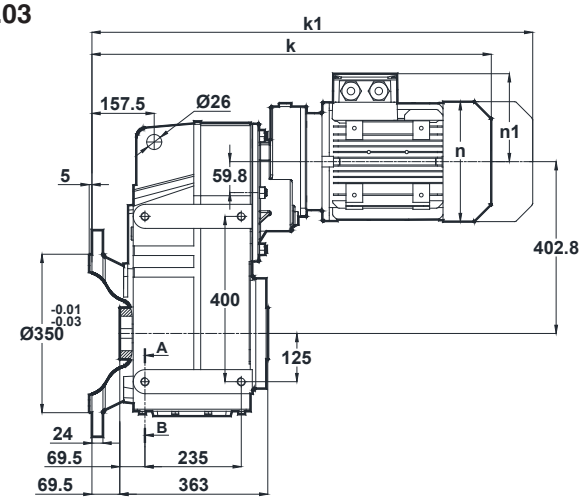


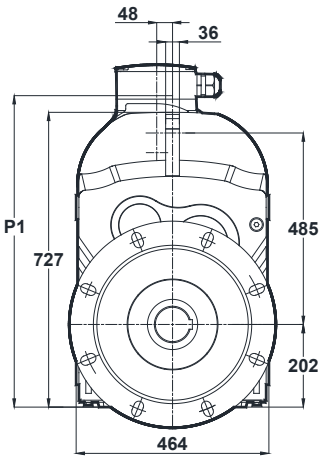
80-90-100
Type

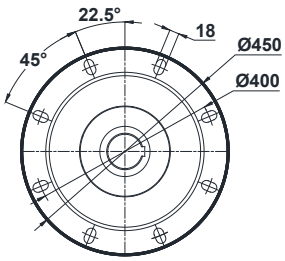
	80	90S	90L	100L
k	904	943	943	987
k1	997	1047.5	1047.5	1106.5
n	155	176	176	193
n1	121	132	132	147
p1	-	737	737	752

Please see on page 318 for optional flange dimensions

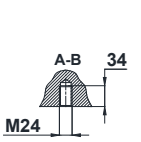
DR774.03

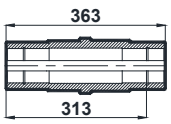


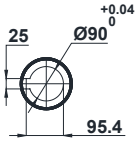


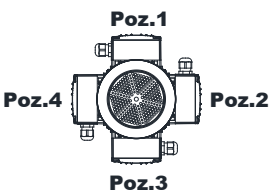


Terminal Box Positions







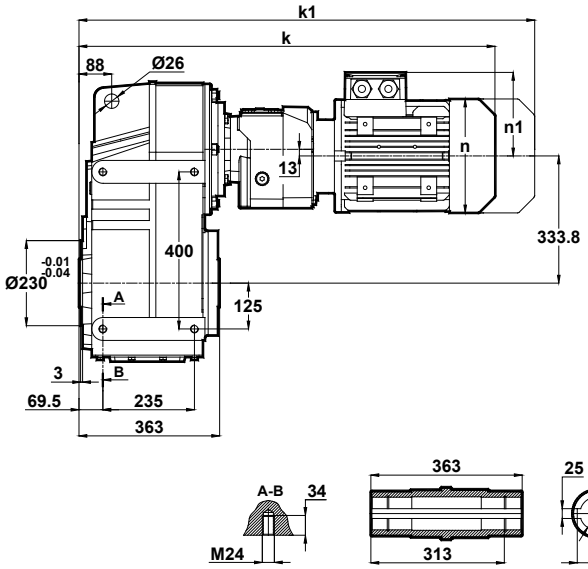


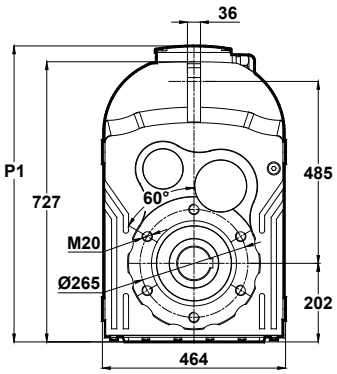
80-90-100
Type

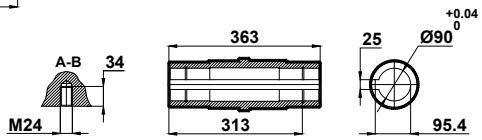
	80	90S	90L	100L
k	734	773	773	817
k1	827	877.5	877.5	936.5
n	155	176	176	193
n1	121	132	132	147
p1	-	737	737	752

Please see on page 318 for optional flange dimensions

DR775.00
DR776.00

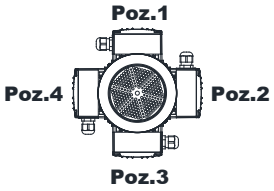






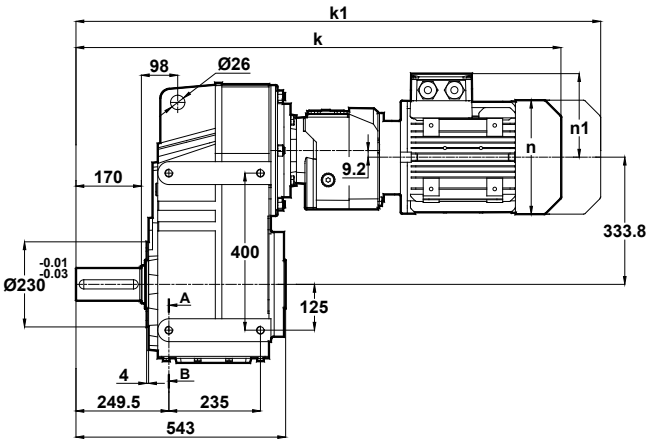
	71	80	90S	90L
k	775	809	848	848
k1	866	902	952.5	952.5
n	137	155	176	176
n1	112	121	132	132
p1	-	-	-	-

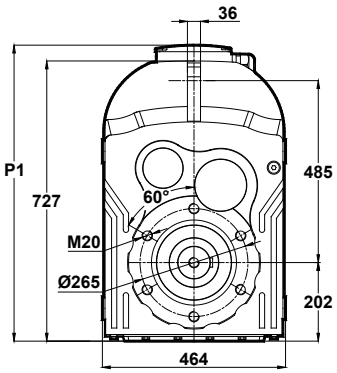
Terminal Box Positions

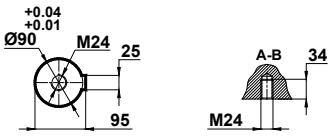


71-80-90
Type

DR775.01
DR776.01

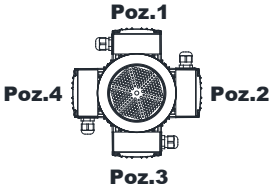




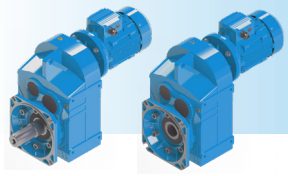


	71	80	90S	90L
k	955	989	1028	1028
k1	1046	1082	1132.5	1132.5
n	137	155	176	176
n1	112	121	132	132
p1	-	-	-	-

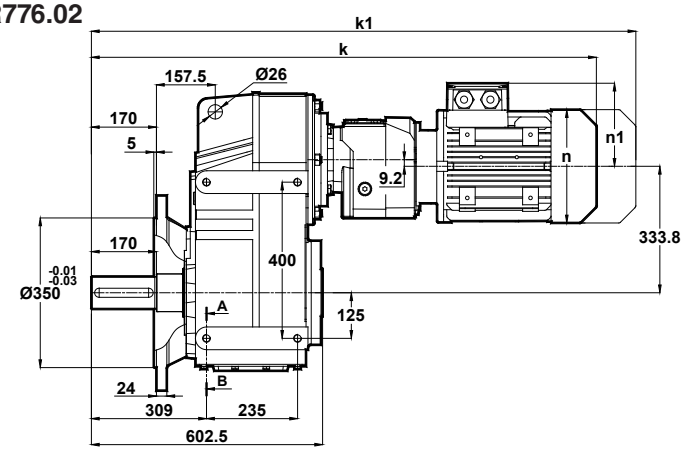
Terminal Box Positions

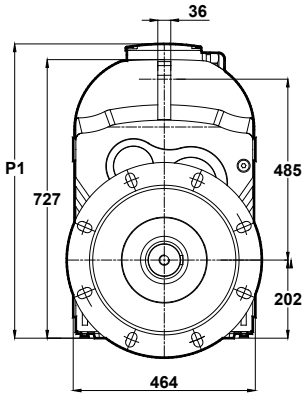


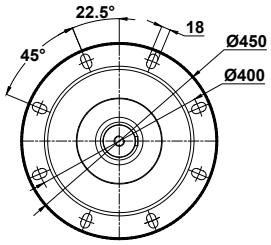
71-80-90
Type



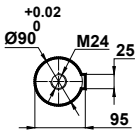
DR775.02
DR776.02

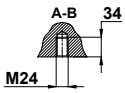




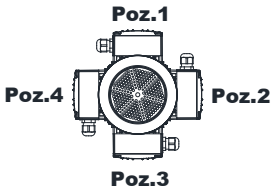


Terminal Box Positions





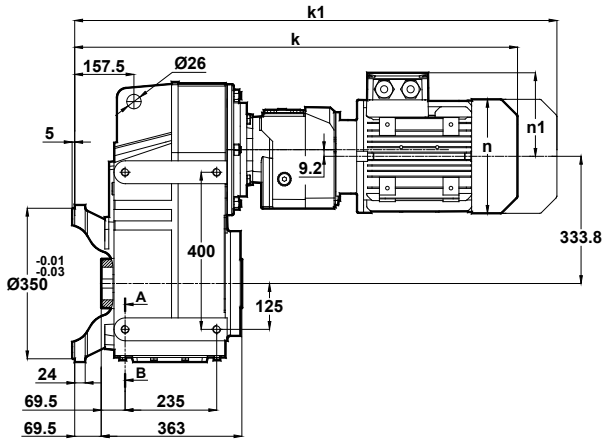
	71	80	90S	90L
k	1015	1049	1088	1088
k1	1106	1142	1192.5	1192.5
n	137	155	176	176
n1	112	121	132	132
p1	-	-	-	-

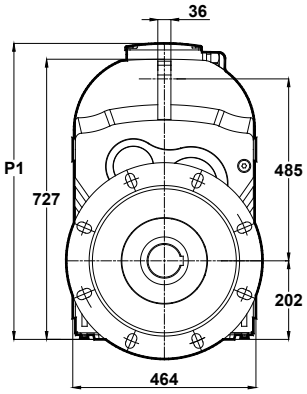


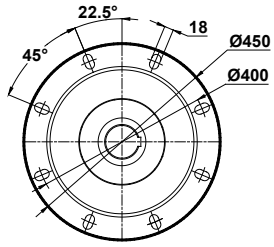
71-80-90
Type

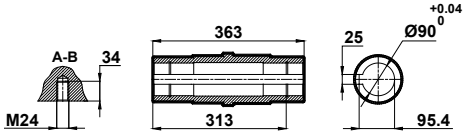
Please see on page 318 for optional flange dimensions

DR775.03
DR776.03



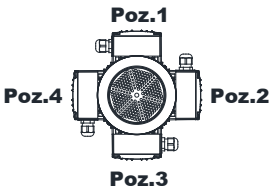






Terminal Box Positions

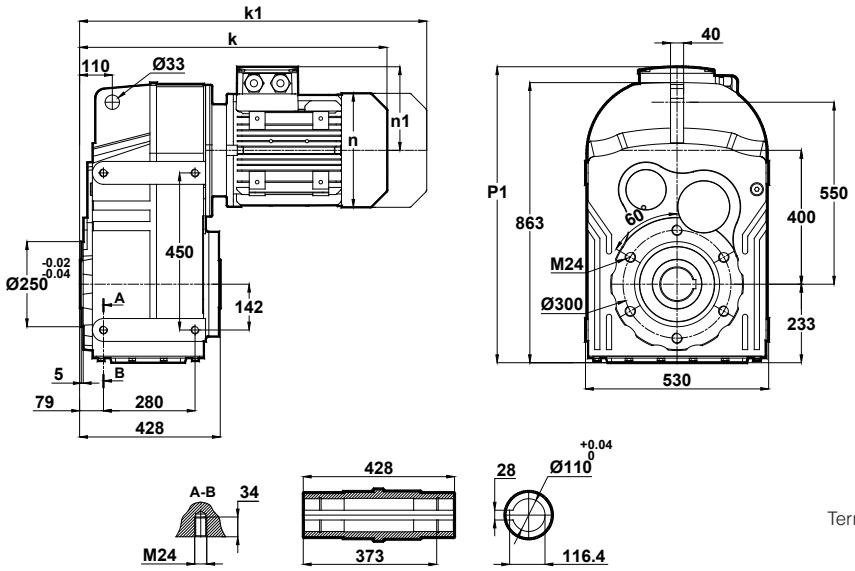
	71	80	90S	90L
k	845	879	918	918
k1	936	972	1022.5	1022.5
n	137	155	176	176
n1	112	121	132	132
p1	-	-	-	-



71-80-90
Type

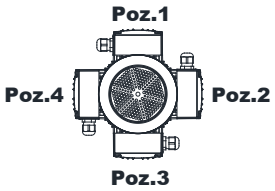
Please see on page 318 for optional flange dimensions

DR872.00
DR873.00



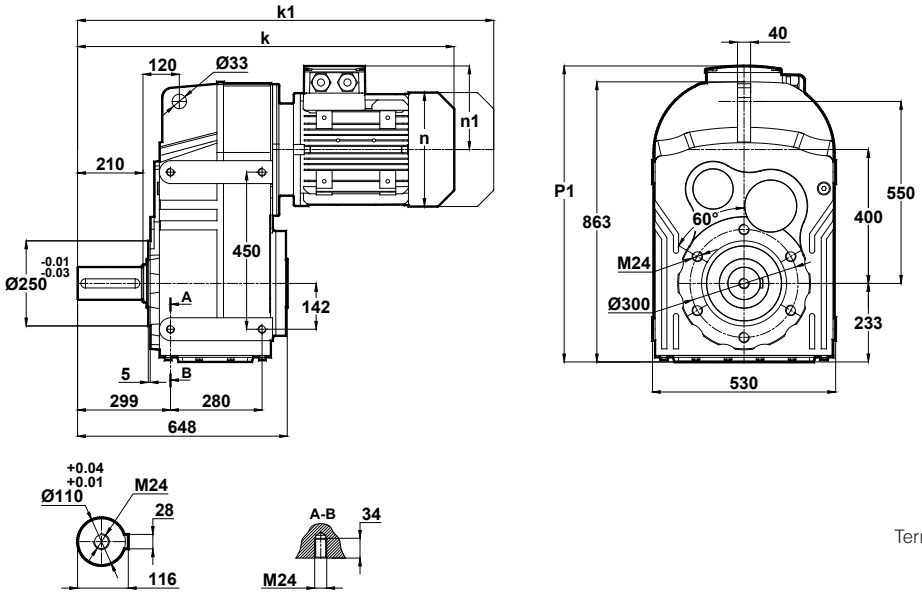
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	809	809	885	885	956	956	998	1027	1052	1155	1216	1216
k1	939	939	1065	1065	1126.5	1126.5	1184.5	1192	1217	1325.5	1389	1395
n	257	257	315	315	347	347	390	434	434	480	544	544
n1	179	179	219	219	234	234	275	285	285	322	350	350
p1	-	-	-	-	877	877	908	918	918	955	983	983

Terminal Box Positions



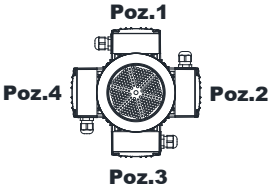
132-160-180-200-225-250-280
Type

DR872.01
DR873.01

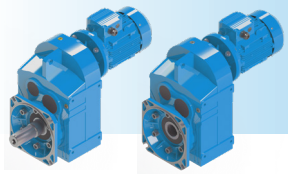


	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1029	1029	1105	1105	1176	1176	1218	1247	1272	1375	1436	1436
k1	1159	1159	1285	1285	1346.5	1346.5	1404.5	1412	1437	1545.5	1609	1615
n	257	257	315	315	347	347	390	434	434	480	544	544
n1	179	179	219	219	234	234	275	285	285	322	350	350
p1	-	-	-	-	877	877	908	918	918	955	983	983

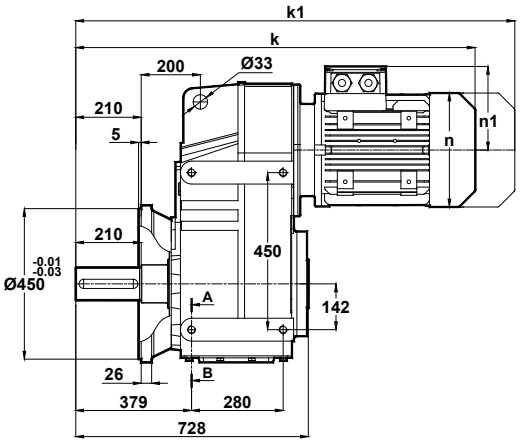
Terminal Box Positions

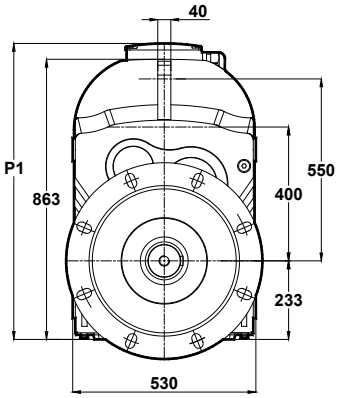


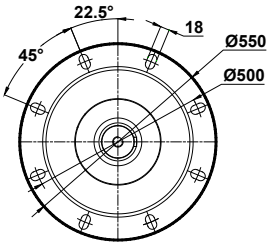
132-160-180-200-225-250-280
Type



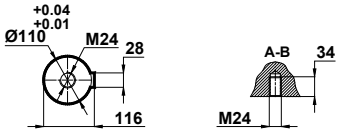
DR872.02
DR873.02

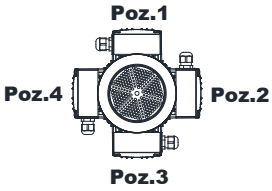






Terminal Box Positions



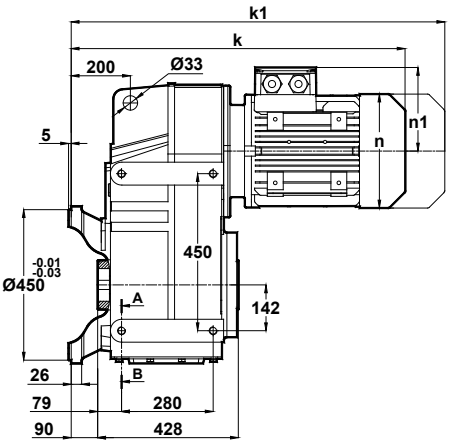


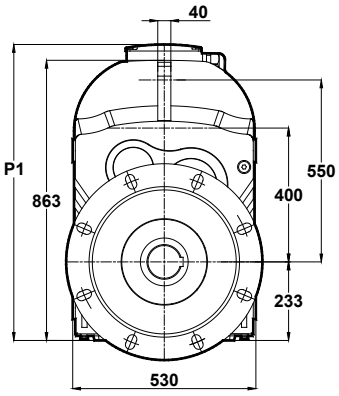
132-160-180-200-225-250-280
Type

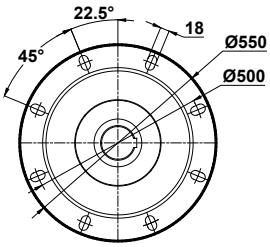
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1109	1109	1185	1185	1256	1256	1298	1327	1352	1455	1516	1516
k1	1239	1239	1365	1365	1426.5	1426.5	1484.5	1492	1517	1625.5	1689	1695
n	257	257	315	315	347	347	390	434	434	480	544	544
n1	179	179	219	219	234	234	275	285	285	322	350	350
p1	-	-	-	-	877	877	908	918	918	955	983	983

Please see on page 318 for optional flange dimensions

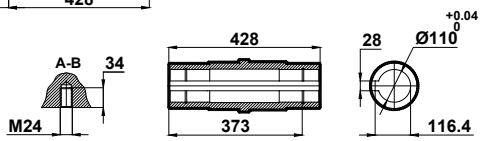
DR872.03
DR873.03

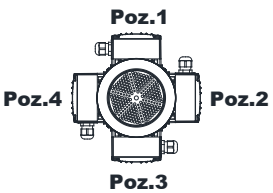






Terminal Box Positions



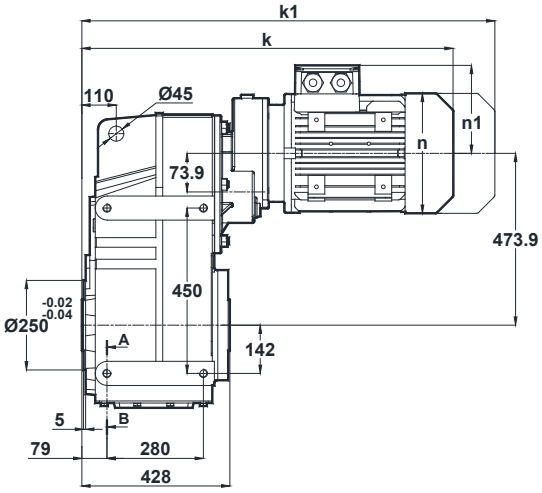


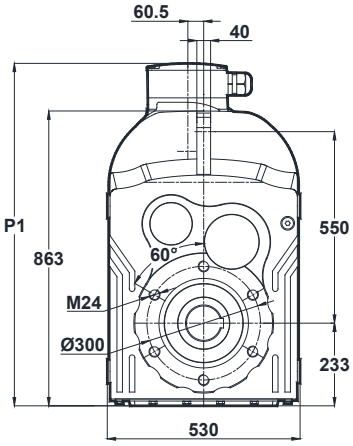
132-160-180-200-225-250-280
Type

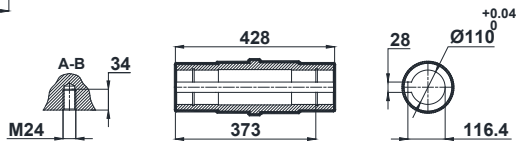
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	899	899	975	975	1046	1046	1088	1117	1142	1245	1306	1306
k1	1029	1029	1155	1155	1216.5	1216.5	1274.5	1282	1307	1415.5	1479	1479
n	257	257	315	315	347	347	390	434	434	480	544	544
n1	179	179	219	219	234	234	275	285	285	322	350	350
p1	-	-	-	-	877	877	908	918	918	955	983	983

Please see on page 318 for optional flange dimensions

DR874.00

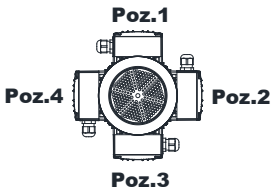






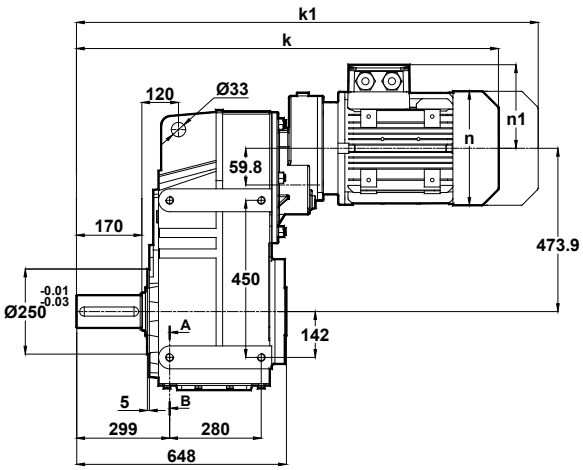
	100L	112M	132S	132M
k	820	844	931	931
k1	939.5	948.5	1061	1061
n	193	215	257	257
n1	147	158	179	179
p1	-	-	886	886

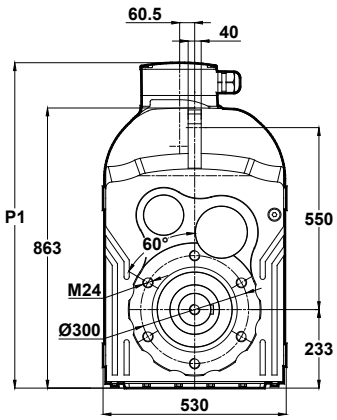
Terminal Box Positions

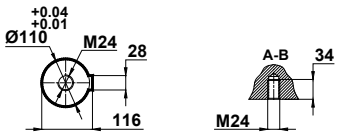


100-112-132
Type

DR874.01

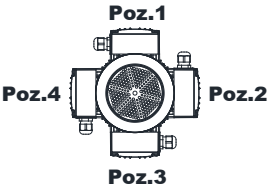




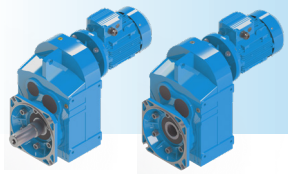


	100L	112M	132S	132M
k	1040	1064	1151	1151
k1	1159.5	1168.5	1281	1281
n	193	215	257	257
n1	147	158	179	179
p1	-	-	886	886

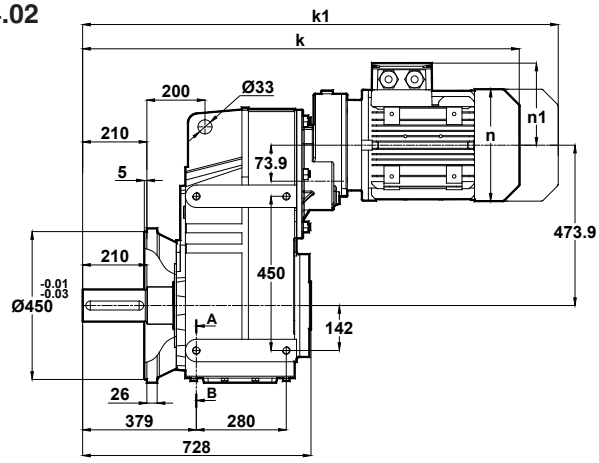
Terminal Box Positions

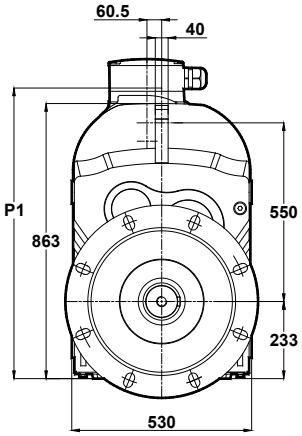


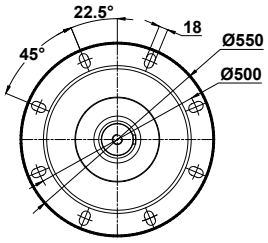
100-112-132
Type



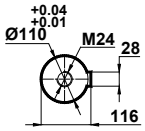
DR874.02

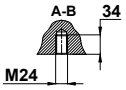


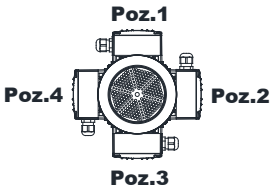




Terminal Box Positions





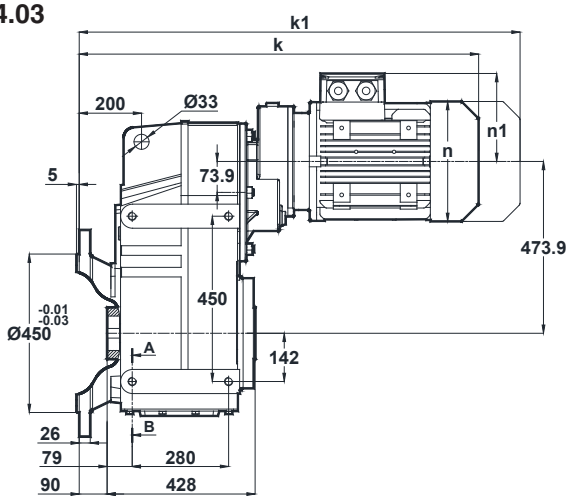


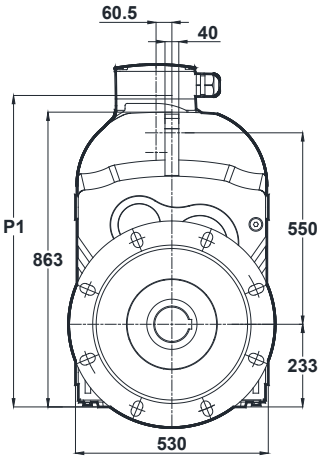
100-112-132
Type

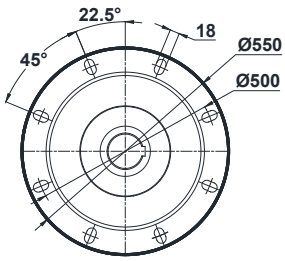
	100L	112M	132S	132M
k	1120	1144	1231	1231
k1	1239.5	1248.5	1361	1361
n	193	215	257	257
n1	147	158	179	179
p1	-	-	886	886

Please see on page 318 for optional flange dimensions

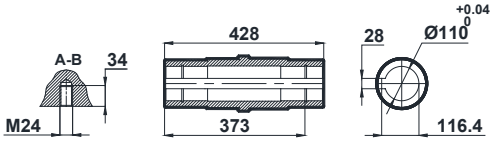
DR874.03

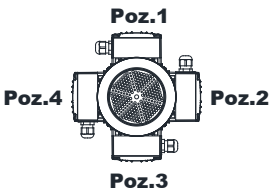






Terminal Box Positions



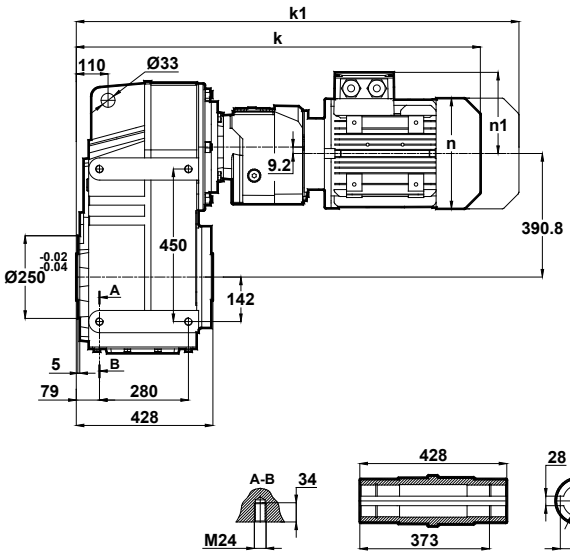


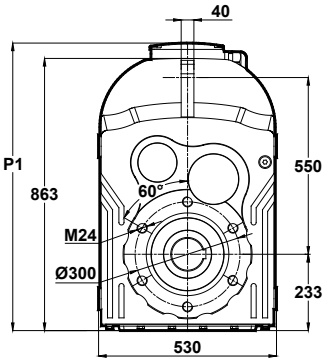
100-112-132
Type

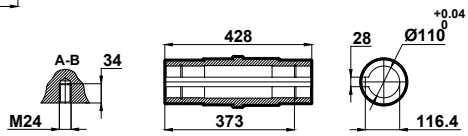
	100L	112M	132S	132M
k	910	934	1021	1021
k1	1029.5	1038.5	1151	1151
n	193	215	257	257
n1	147	158	179	179
p1	-	-	886	886

Please see on page 318 for optional flange dimensions

DR875.00
DR876.00

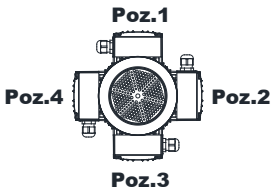






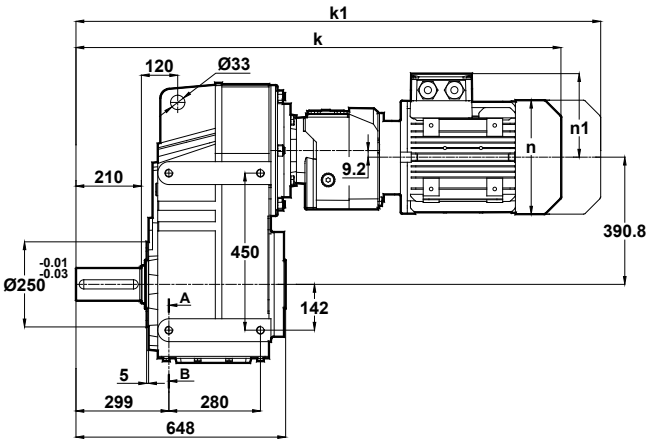
	71	80	90S	90L	100L
k	838	872	911	911	958
k1	929	965	1015.5	1015.5	1077.5
n	137	155	176	176	193
n1	112	121	132	132	147
p1	736	745	756	756	771

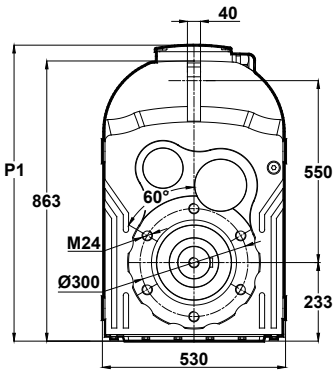
Terminal Box Positions

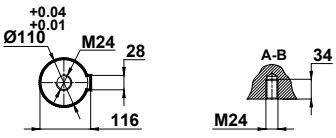


71-80-90-100
Type

DR875.01
DR876.01

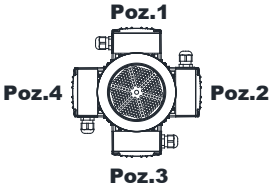




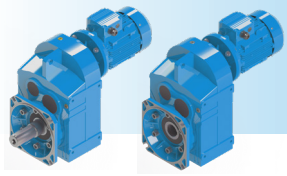


	71	80	90S	90L	100L
k	1058	1092	1131	1131	1178
k1	1149	1185	1235.5	1235.5	1297.5
n	137	155	176	176	193
n1	112	121	132	132	147
p1	736	745	756	756	771

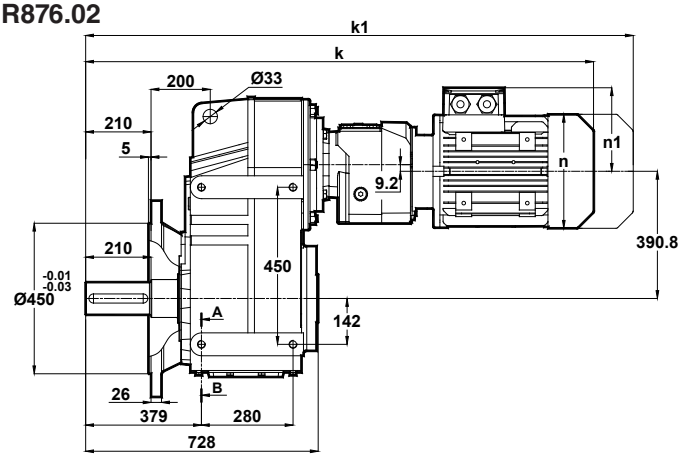
Terminal Box Positions

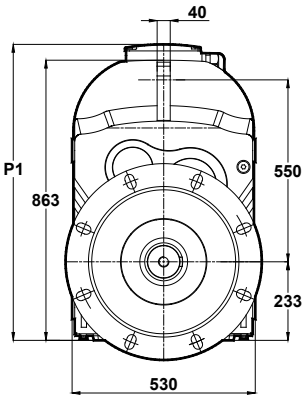


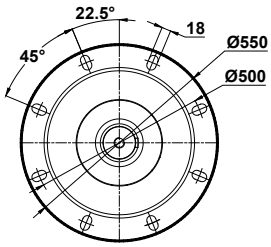
71-80-90-100
Type



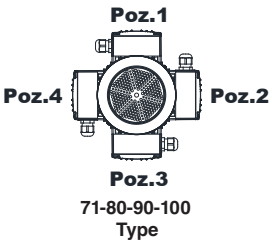
DR875.02
DR876.02

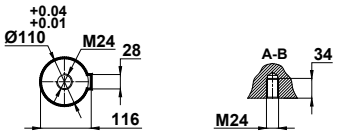






Terminal Box Positions

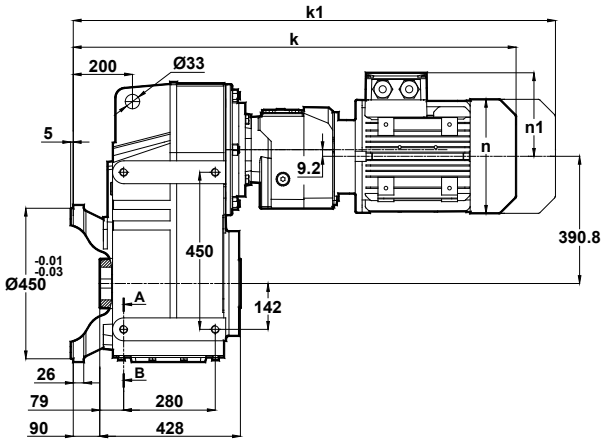


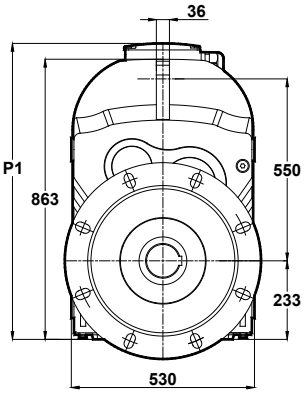


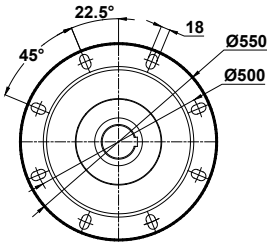
	71	80	90S	90L	100L
k	1138	1172	1211	1211	1258
k1	1229	1265	1315.5	1315.5	1377.5
n	137	155	176	176	193
n1	112	121	132	132	147
p1	736	745	756	756	771

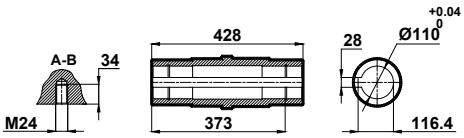
Please see on page 318 for optional flange dimensions

DR875.03
DR876.03

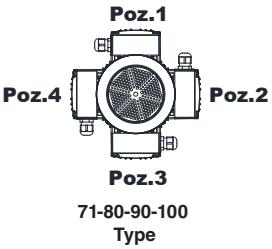








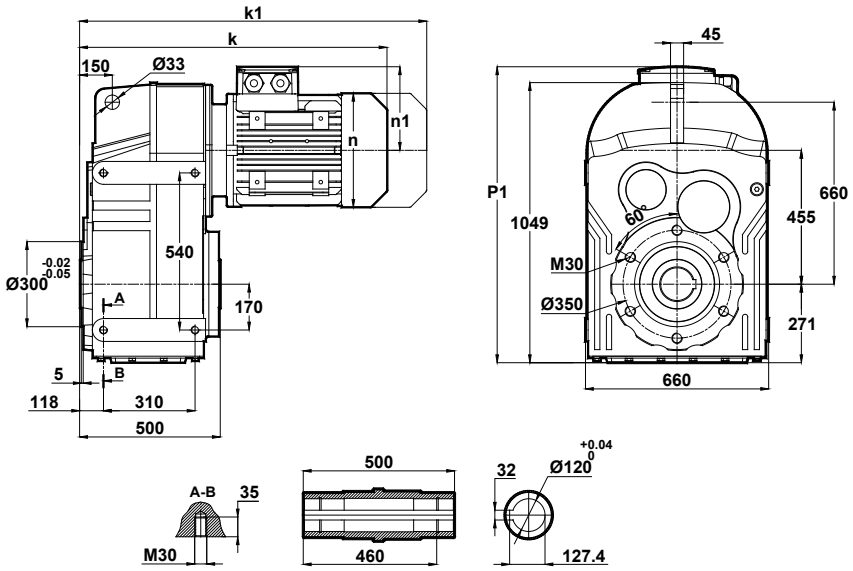
Terminal Box Positions



	71	80	90S	90L	100L
k	928	962	1001	1001	1048
k1	1019	1055	1105.5	1105.5	1167.5
n	137	155	176	176	193
n1	112	121	132	132	147
p1	736	745	756	756	771

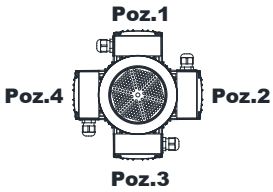
Please see on page 318 for optional flange dimensions

DR972.00
DR973.00



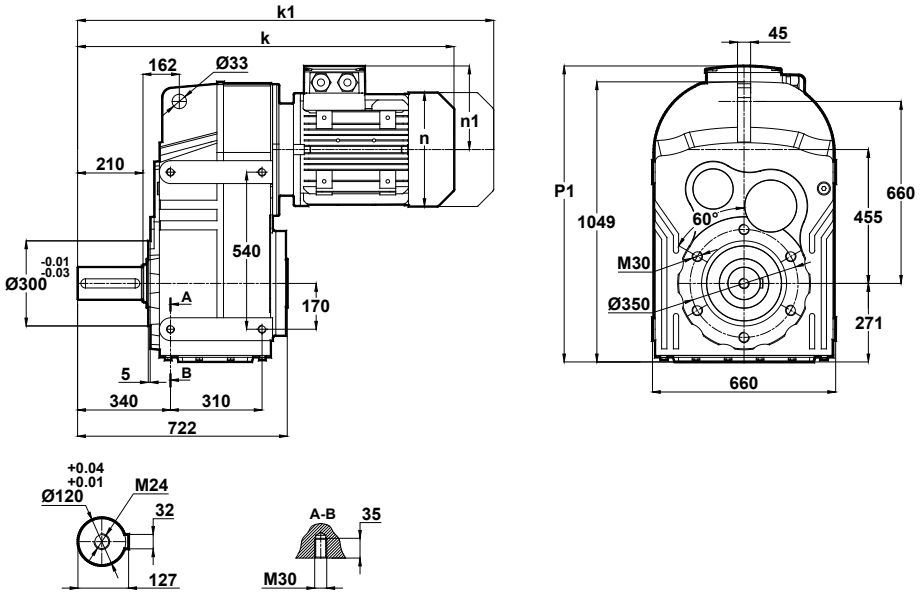
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	952	952	1023	1023	1065	1081	1106	1209	1270	1270	1425	1425
k1	1132	1132	1193.5	1193.5	1251.5	1246	1271	1379.5	1443	1449	-	-
n	315	315	347	347	390	434	434	480	544	544	614	614
n1	219	219	234	234	275	285	285	322	350	350	510	510
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

Terminal Box Positions



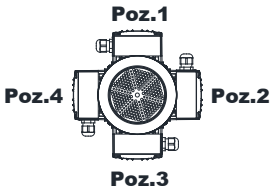
160-180-200-225-250-280-315
Type

DR972.01
DR973.01

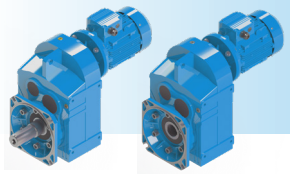


	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1174	1174	1245	1245	1287	1303	1328	1431	1492	1492	1647	1647
k1	1354	1354	1415.5	1415.5	1473.5	1468	1493	1601.5	1665	1498	-	-
n	315	315	347	347	390	434	434	480	544	544	614	614
n1	219	219	234	234	275	285	285	322	350	350	510	510
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

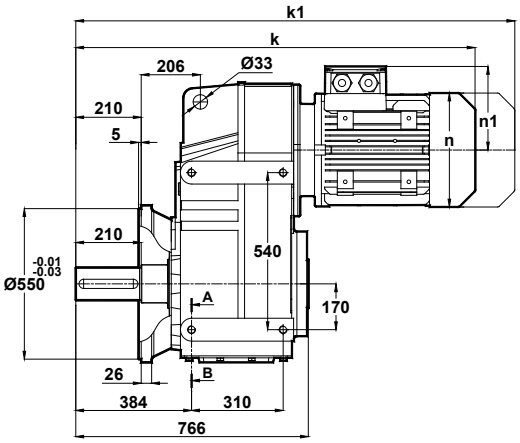
Terminal Box Positions

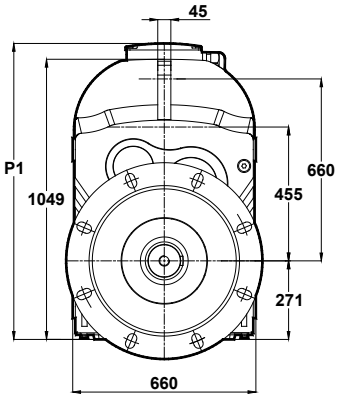


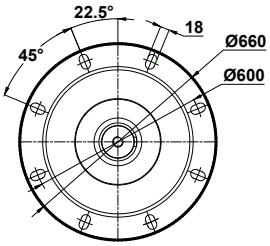
160-180-200-225-250-280-315
Type

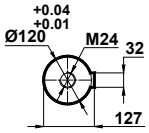


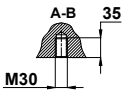
DR972.02
DR973.02





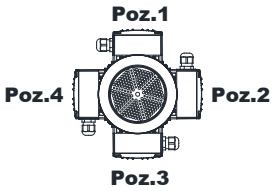






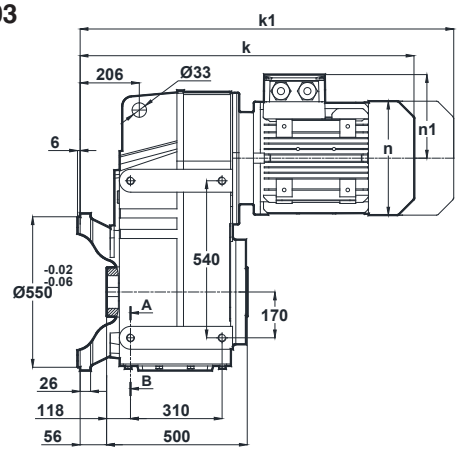
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1218	1218	1289	1289	1331	1347	1372	1475	1536	1536	1691	1691
k1	1398	1398	1459.5	1459.5	1517.5	1512	1537	1645.5	1709	1715	-	-
n	315	315	347	347	390	434	434	480	544	544	614	614
n1	219	219	234	234	275	285	285	322	350	350	510	510
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

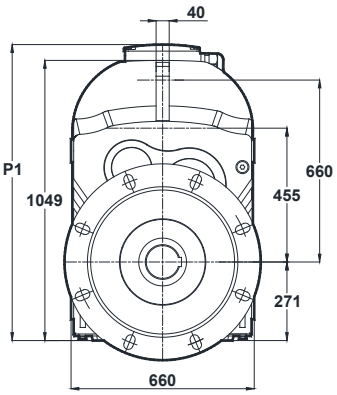
Terminal Box Positions

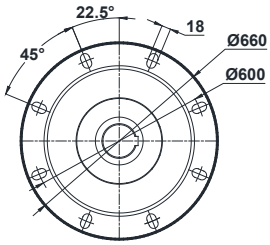


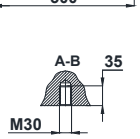
160-180-200-225-250-280-315
Type

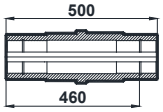
DR972.03
DR973.03

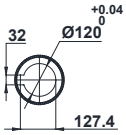






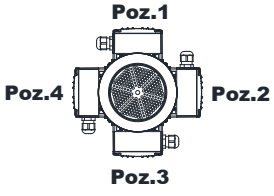






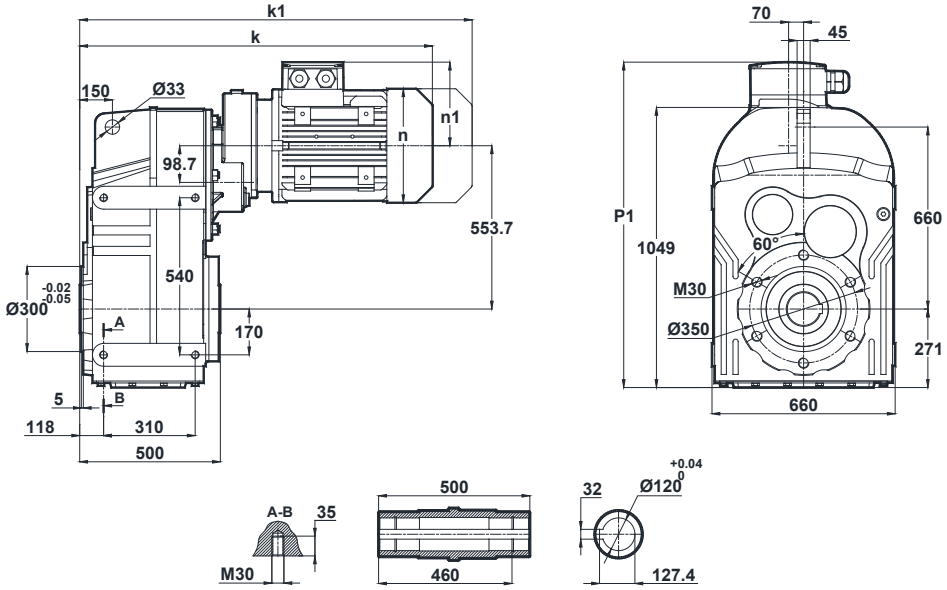
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1008	1008	1079	1079	1121	1137	1162	1265	1326	1326	1481	1481
k1	1188	1188	1249.5	1249.5	1307.5	1302	1327	1435.5	1499	1505	-	-
n	315	315	347	347	390	434	434	480	544	544	614	614
n1	219	219	234	234	275	285	285	322	350	350	510	510
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

Terminal Box Positions



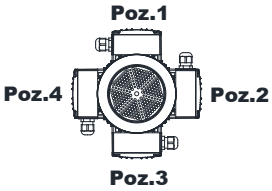
160-180-200-225-250-280-315
Type

DR974.00



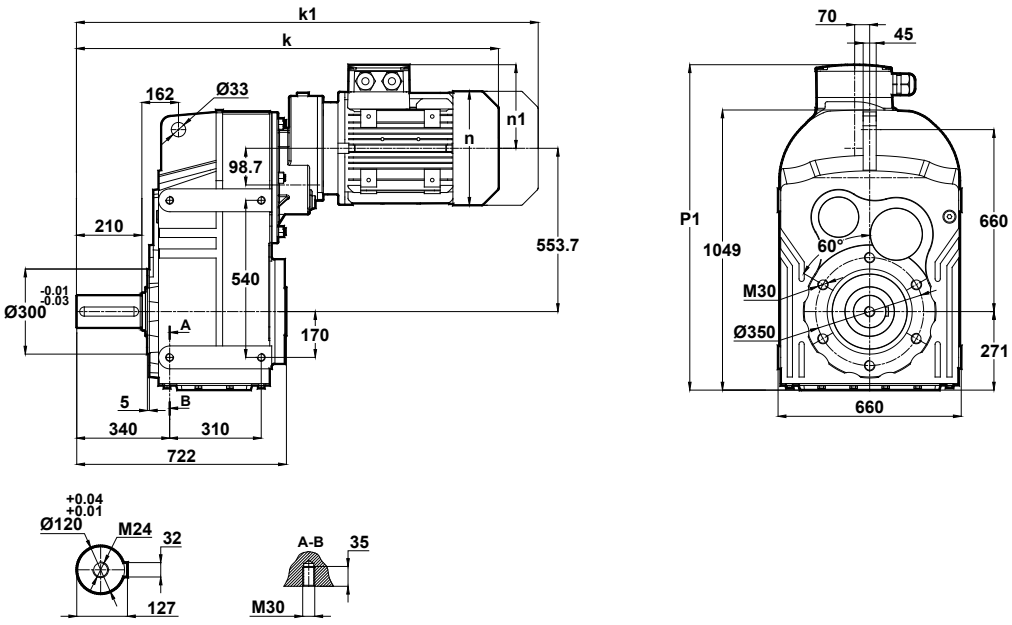
	100L	112M	132S	132M
k	921	945	1032	1032
k1	1040.5	1049.5	1162	1162
n	193	215	257	257
n1	147	158	179	179
p1	-	-	-	-

Terminal Box Positions



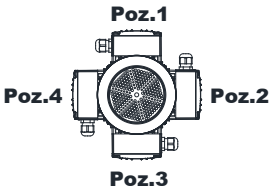
100-112-132
Type

DR974.01

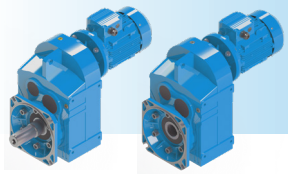


	100L	112M	132S	132M
k	1143	1167	1254	1254
k1	1262.5	1271.5	1384	1384
n	193	215	257	257
n1	147	158	179	179
p1	-	-	-	-

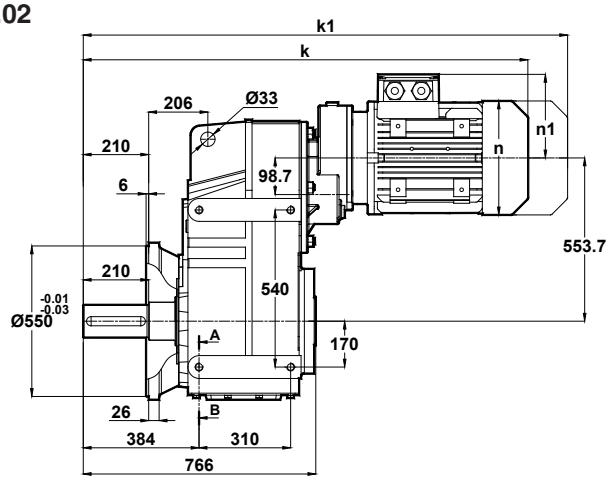
Terminal Box Positions

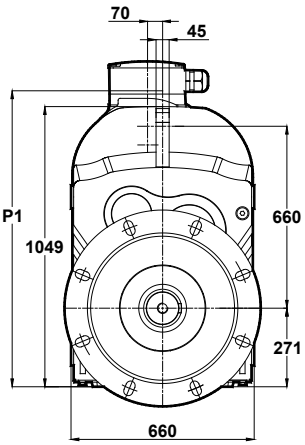


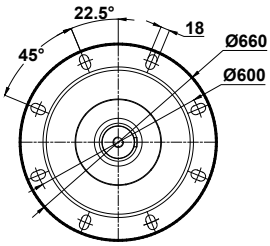
100-112-132
Type

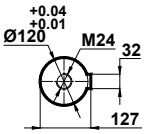


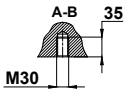
DR974.02





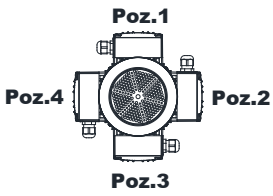






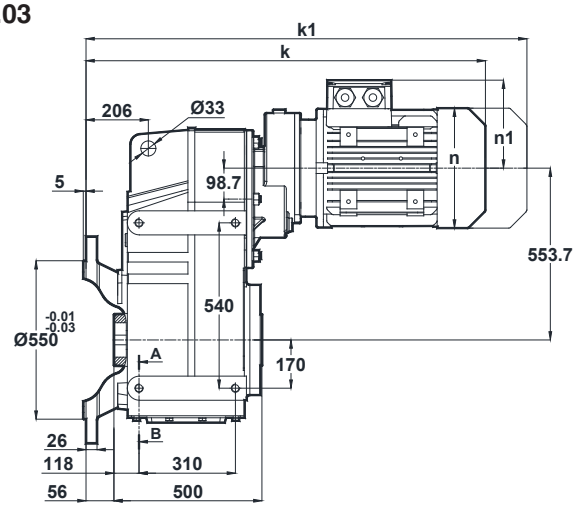
	100L	112M	132S	132M
k	1187	1211	1298	1298
k1	1306.5	1315.5	1428	1428
n	193	215	257	257
n1	147	158	179	179
p1	-	-	-	-

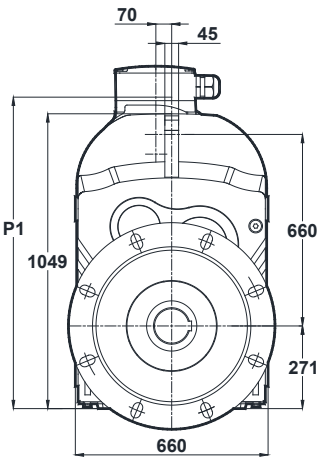
Terminal Box Positions

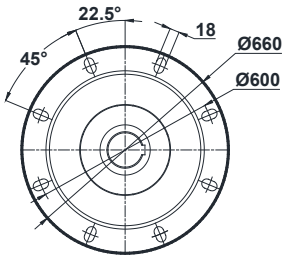


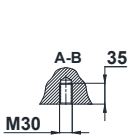
100-112-132 Type

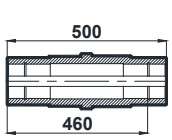
DR974.03

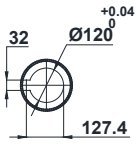






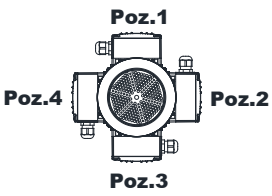






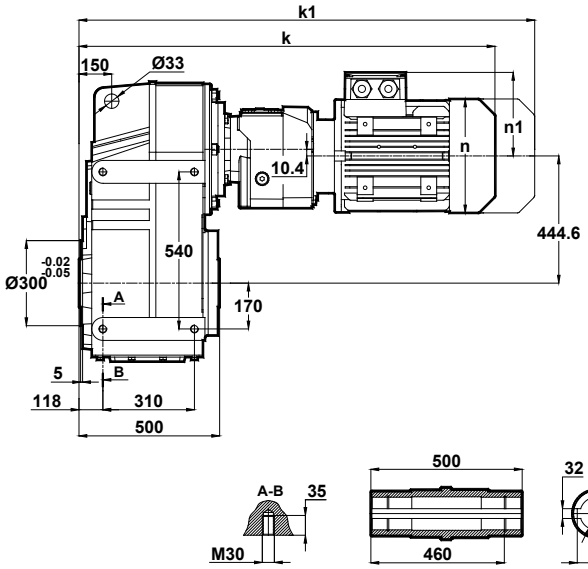
	100L	112M	132S	132M
k	977	1001	1088	1088
k1	1096.5	1105.5	1218	1218
n	193	215	257	257
n1	147	158	179	179
p1	-	-	-	-

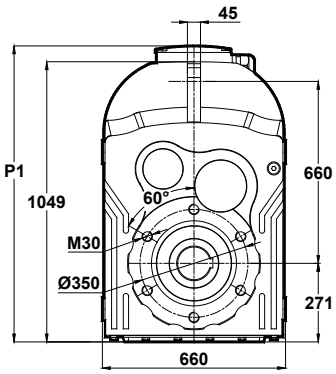
Terminal Box Positions

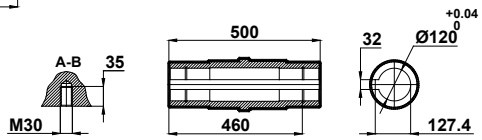


100-112-132 Type

DR975.00
DR976.00

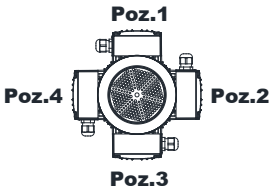






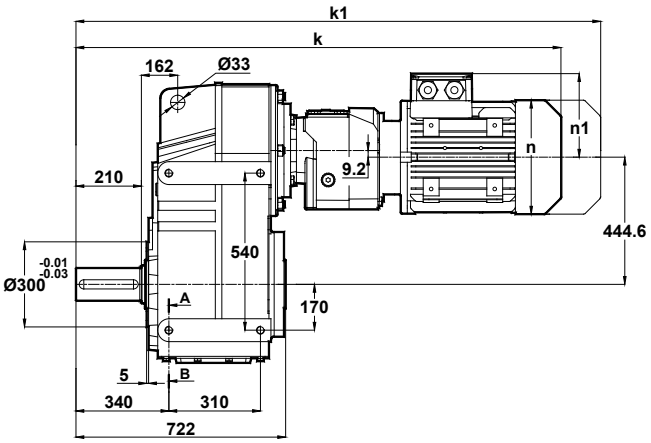
	80	90S	90L	100L
k	1000	1039	1039	1083
k1	1093	1143.5	1143.5	1202.5
n	155	176	176	193
n1	121	132	132	147
p1	-	-	-	-

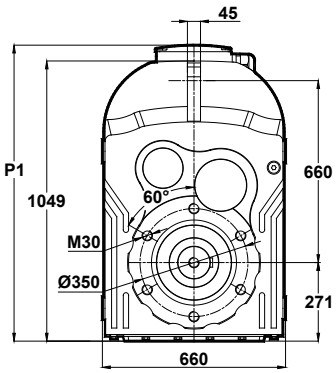
Terminal Box Positions

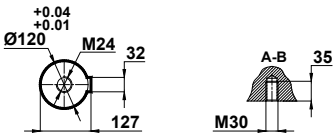


80-90-100
Type

DR975.01
DR976.01

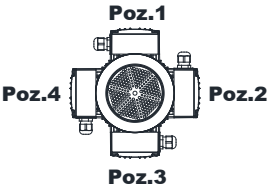




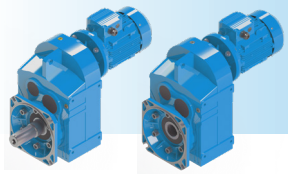


	80	90S	90L	100L
k	1222	1261	1261	1305
k1	1315	1365.5	1365.5	1424.5
n	155	176	176	193
n1	121	132	132	147
p1	-	-	-	-

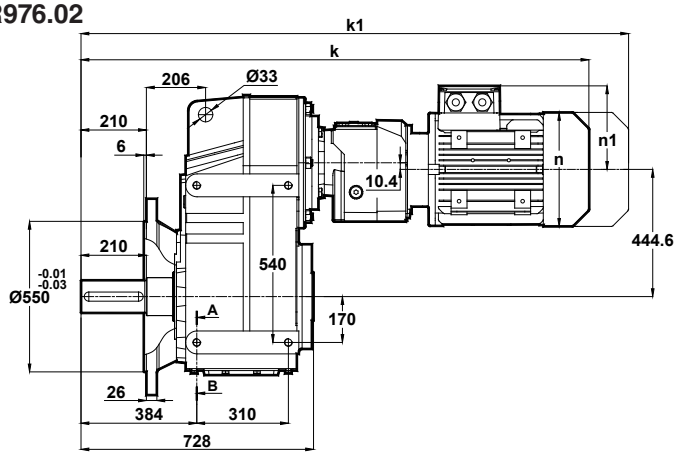
Terminal Box Positions

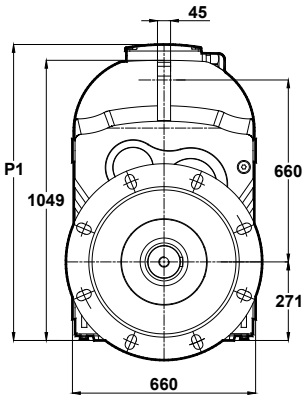


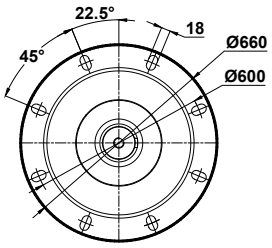
80-90-100
Type

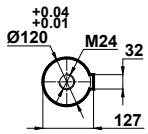


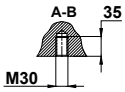
DR975.02
DR976.02





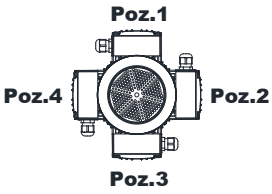






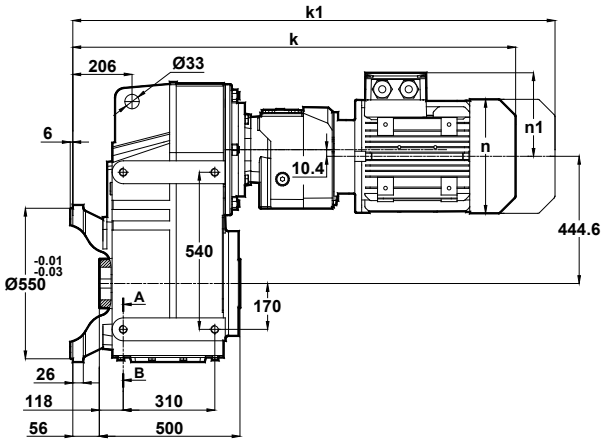
	80	90S	90L	100L
k	1266	1305	1305	1349
k1	1359	1409.5	1409.5	1468.5
n	155	176	176	193
n1	121	132	132	147
p1	-	-	-	-

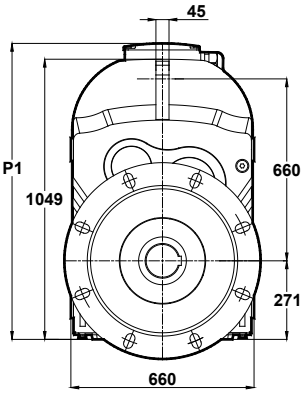
Terminal Box Positions

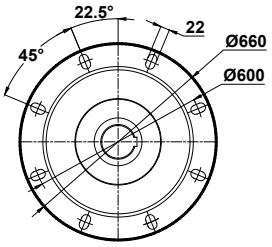


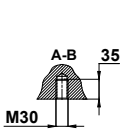
80-90-100
Type

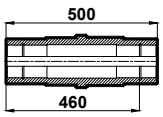
DR975.03
DR976.03

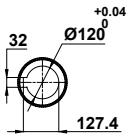






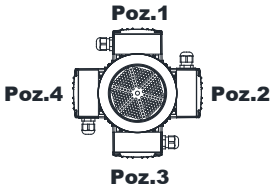






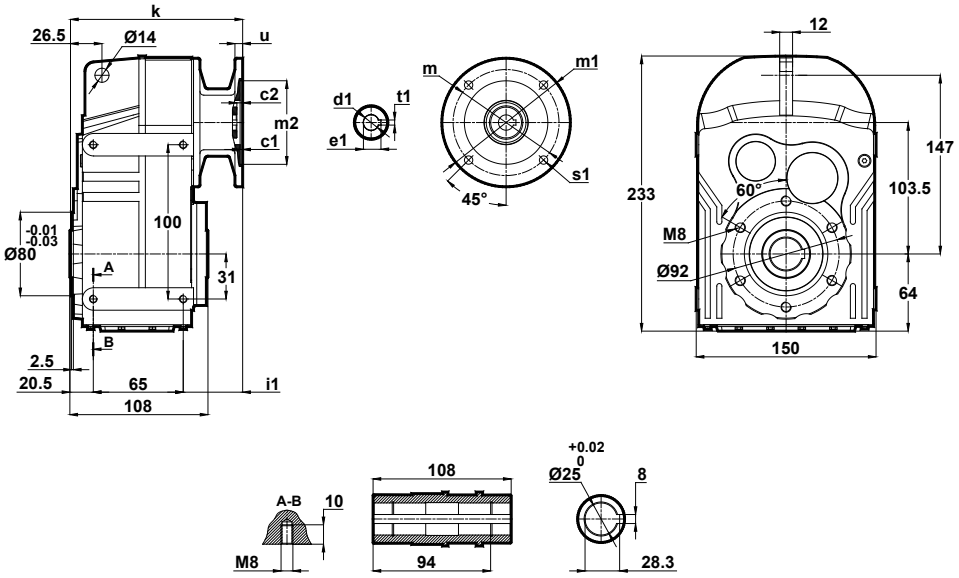
	80	90S	90L	100L
k	1056	1095	1095	1139
k1	1149	1199.5	1199.5	1258.5
n	155	176	176	193
n1	121	132	132	147
p1	-	-	-	-

Terminal Box Positions



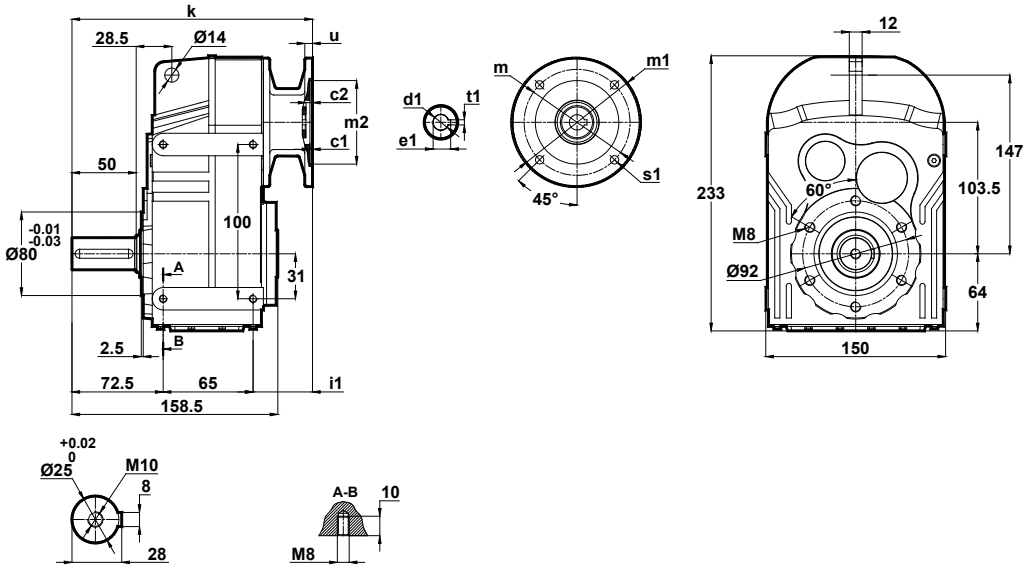
80-90-100
Type

DN072.00
DN073.00

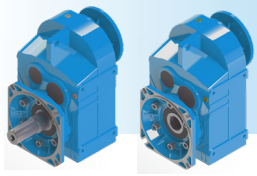


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	145	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	146.5	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	161.5	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	161.5	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	172.5	28	8	31.3

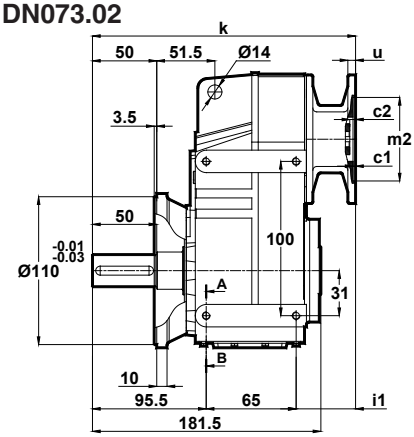
DN072.01
DN073.01

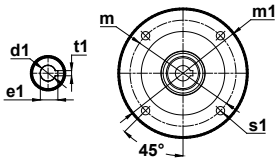


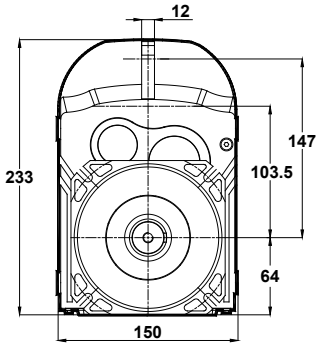
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	197	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	198.5	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	213.5	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	213.5	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	224.5	28	8	31.3

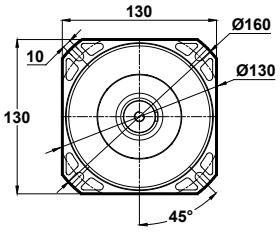


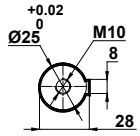
DN072.02
DN073.02

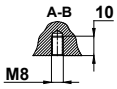






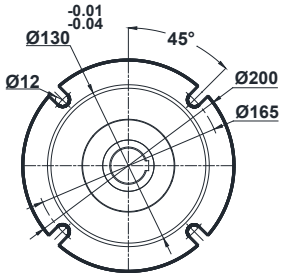




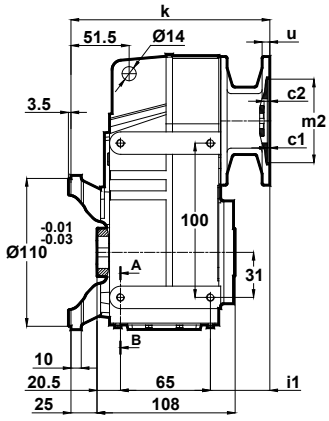


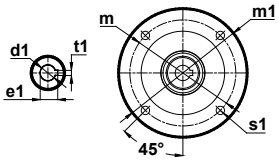
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	220	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	221.5	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	236.5	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	236.5	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	247.5	28	8	31.3

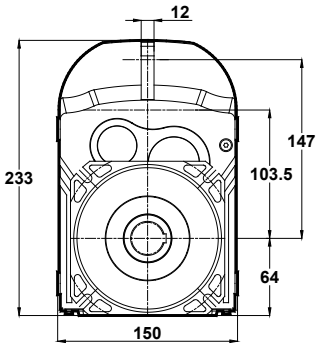
Optional Flange Dimensions

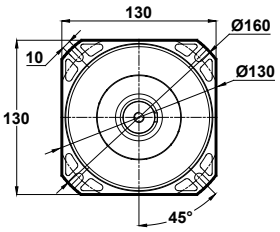


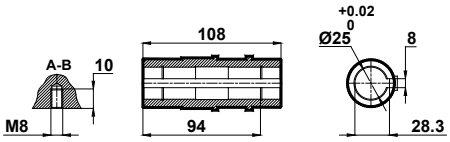
DN072.03
DN073.03



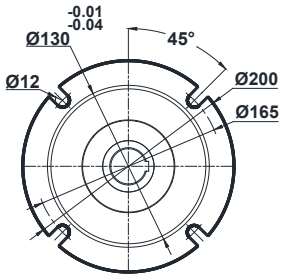




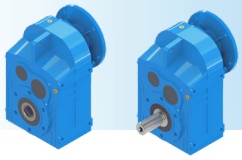




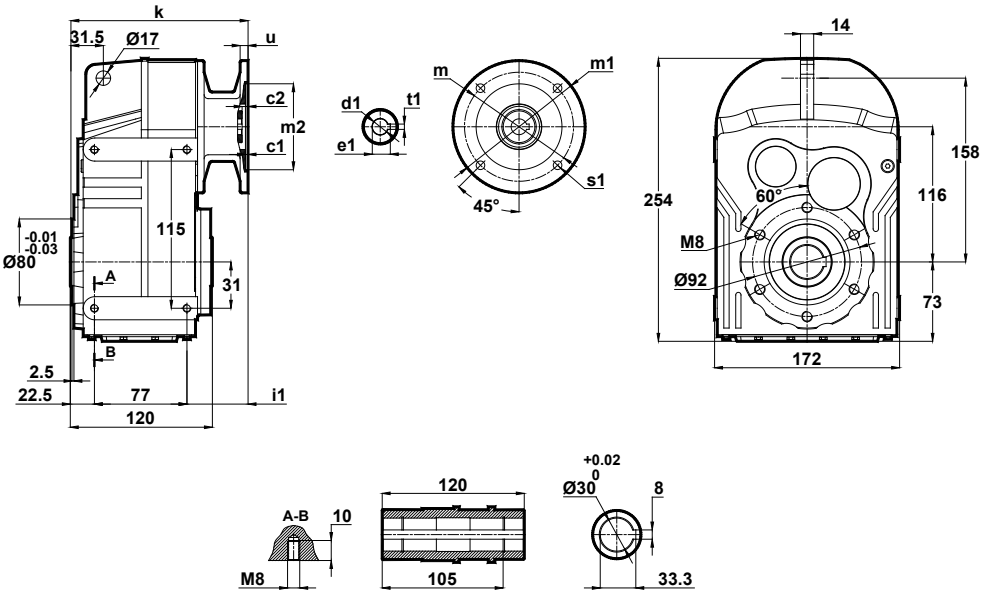
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	170	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	171.5	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	186.5	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	186.5	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	197.5	28	8	31.3

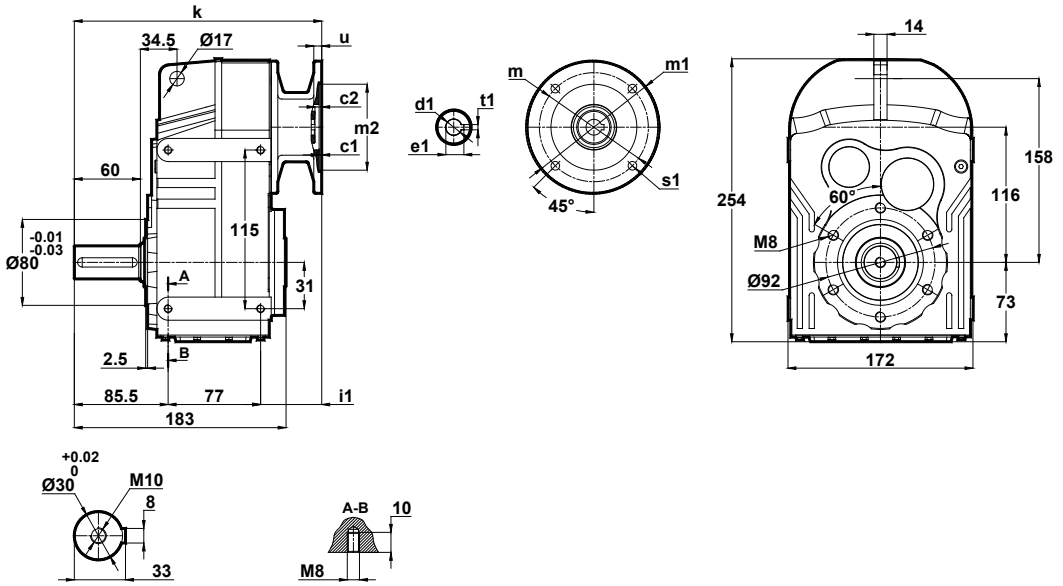


DN172.00
DN173.00



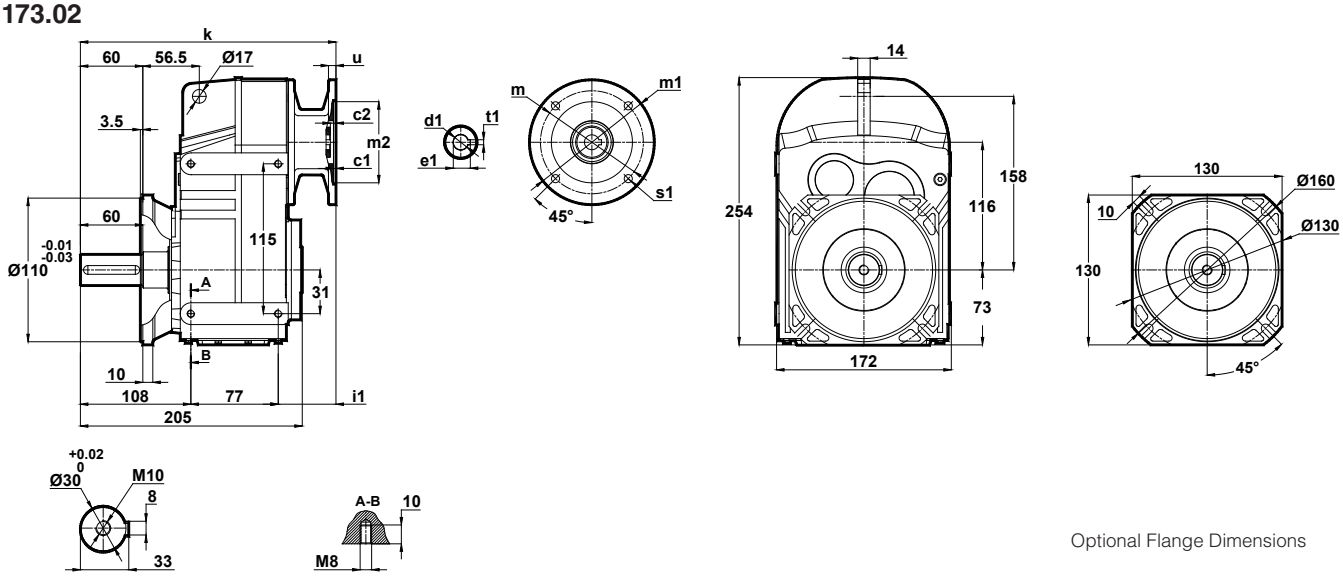
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	154	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	156	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	171	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	171	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	182	28	8	31.3

DN172.01
DN173.01



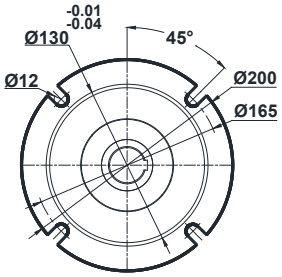
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	217	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	219	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	234	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	234	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	245	28	8	31.3

DN172.02
DN173.02

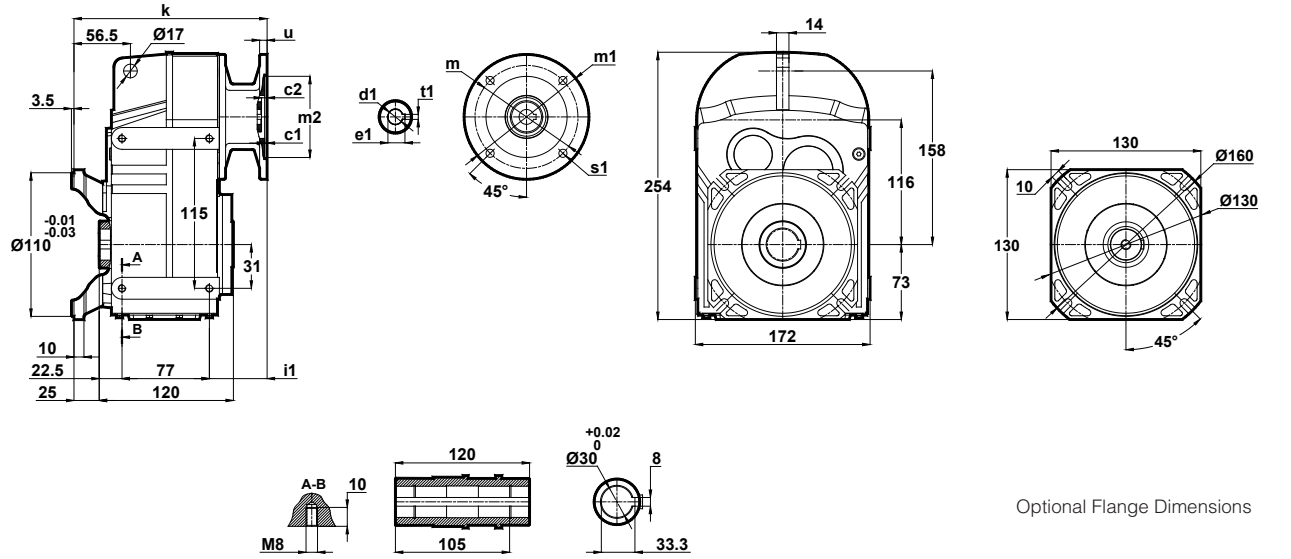


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	239	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	241	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	256	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	256	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	267	28	8	31.3

Optional Flange Dimensions

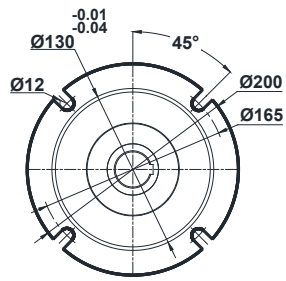


DN172.03
DN173.03

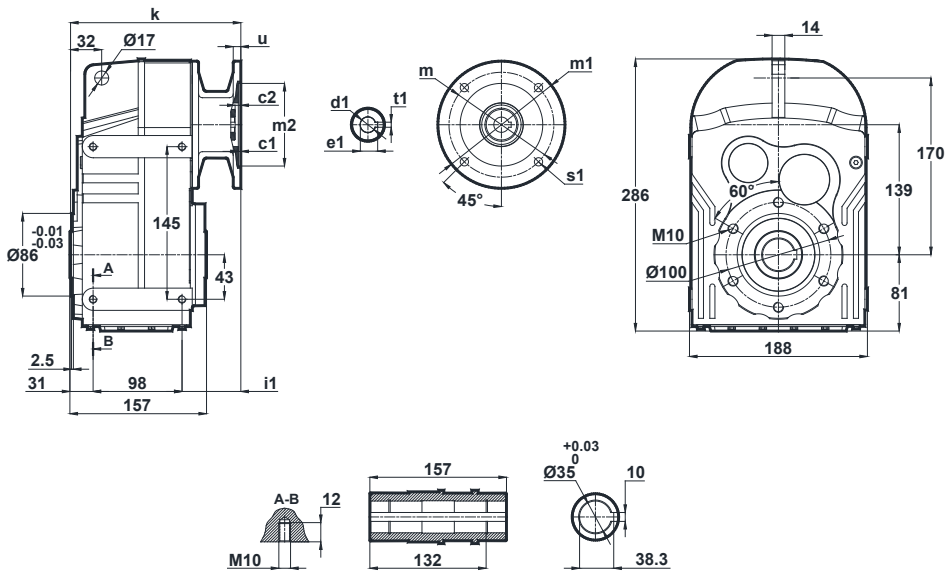


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	179	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	181	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	196	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	196	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	207	28	8	31.3

Optional Flange Dimensions

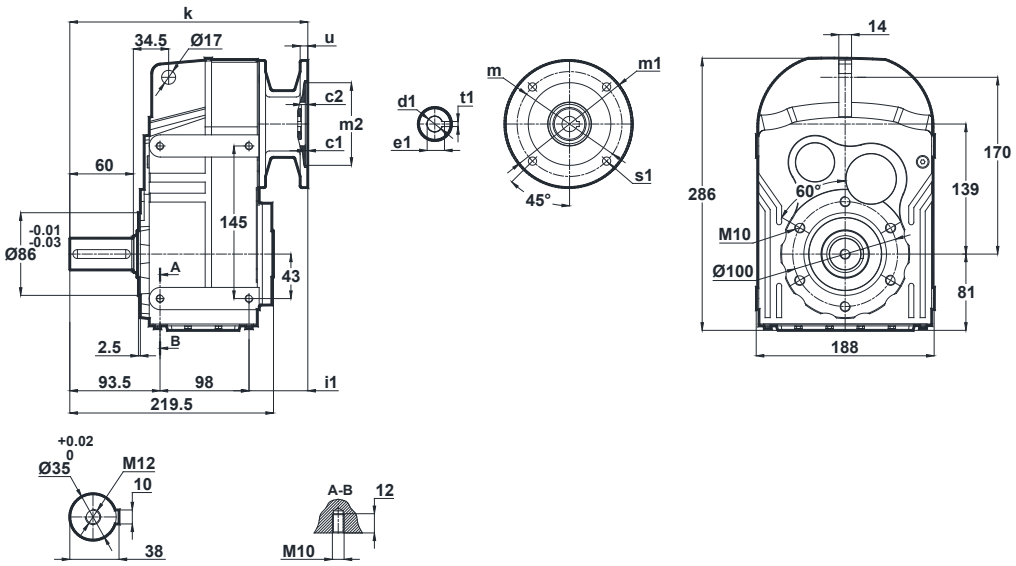


DN272.00
DN273.00

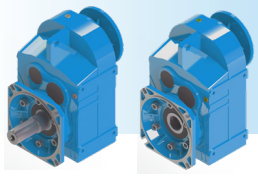


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	184	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	186	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	71	12	201	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	71	12	201	24	8	27.3
100/B5 **100/B14**	4	5 5.5	15 9	215 130	250 160	180 110	82	12	212	28	8	31.3

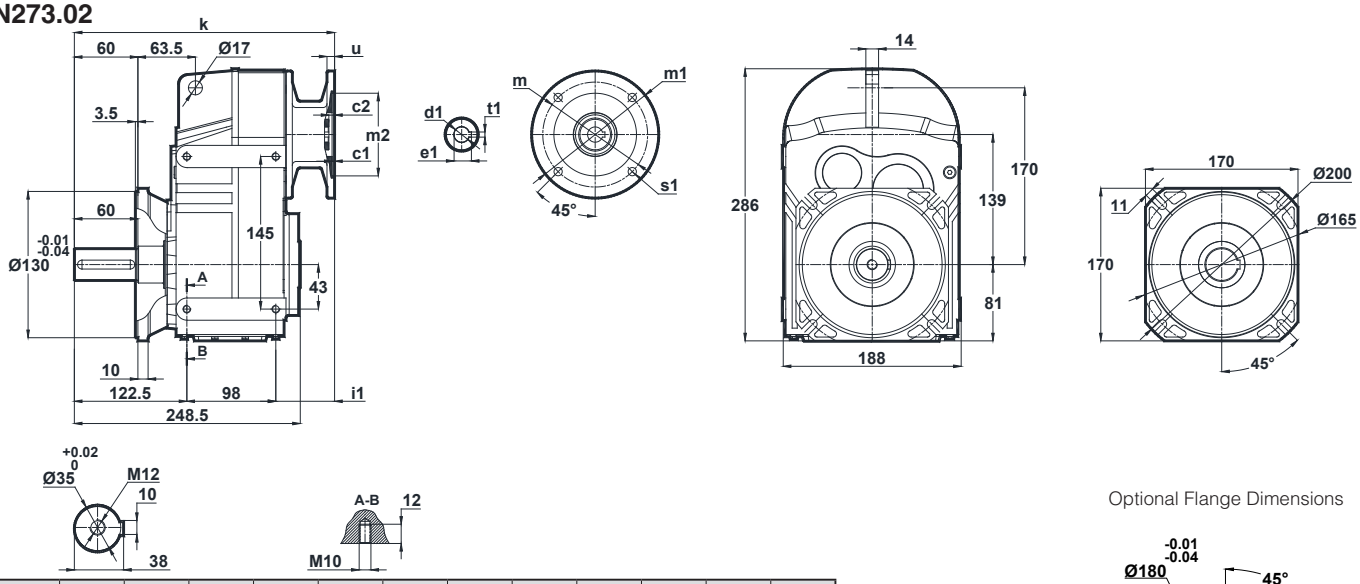
DN272.01
DN273.01



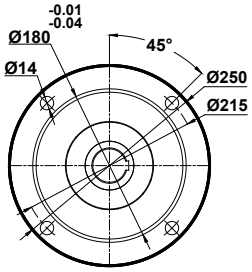
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	246	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	248	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	71	12	263	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	71	12	263	24	8	27.3
100/B5 **100/B14**	4	5 5.5	15 9	215 130	250 160	180 110	82	12	273	28	8	31.3



DN272.02
DN273.02

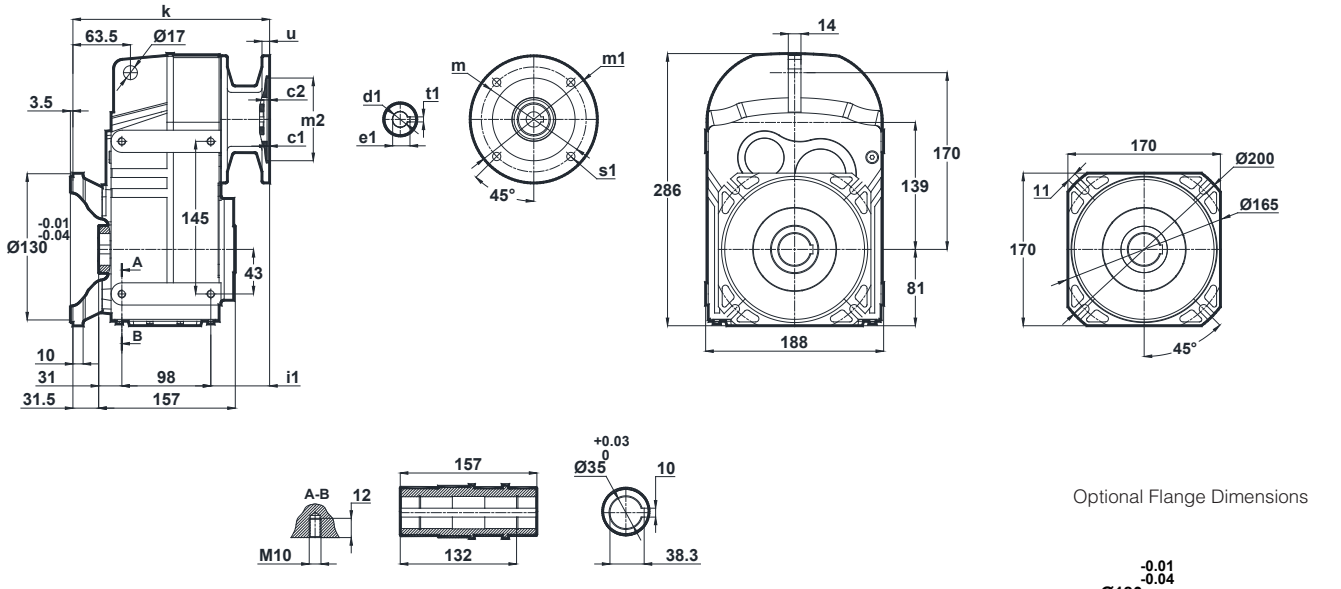


Optional Flange Dimensions

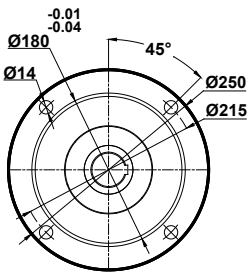


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	275	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	277	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	292	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	292	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	303	28	8	31.3

DN272.03
DN273.03

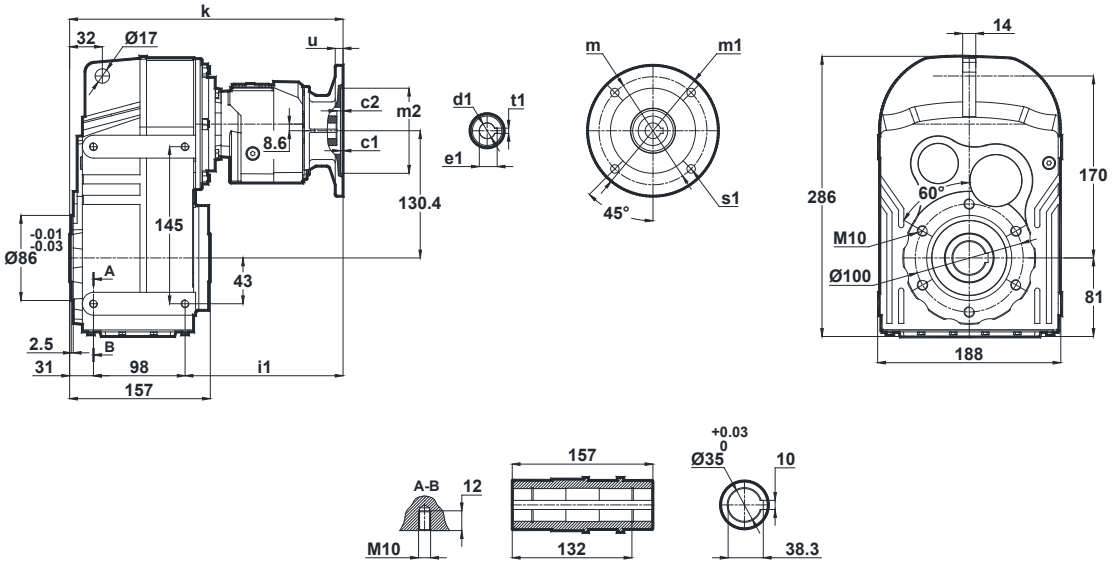


Optional Flange Dimensions



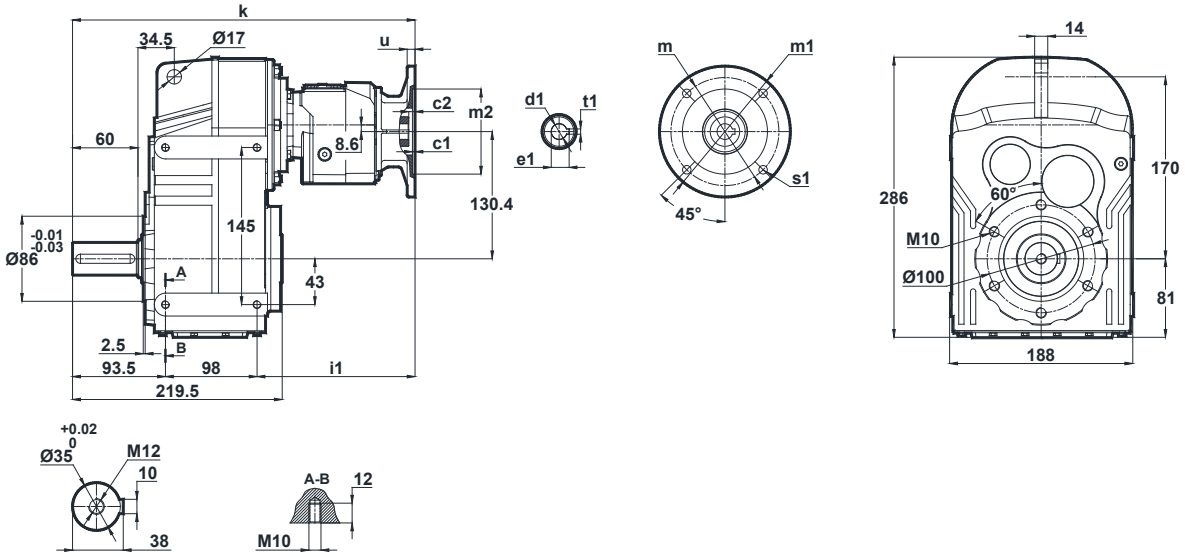
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	215	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	217	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	71	12	232	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	71	12	232	24	8	27.3
100/B5 100/B14	4	5 5.5	15 9	215 130	250 160	180 110	82	12	243	28	8	31.3

DN275.00
DN276.00

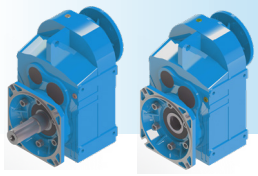


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	333	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	335	14	5	16.3

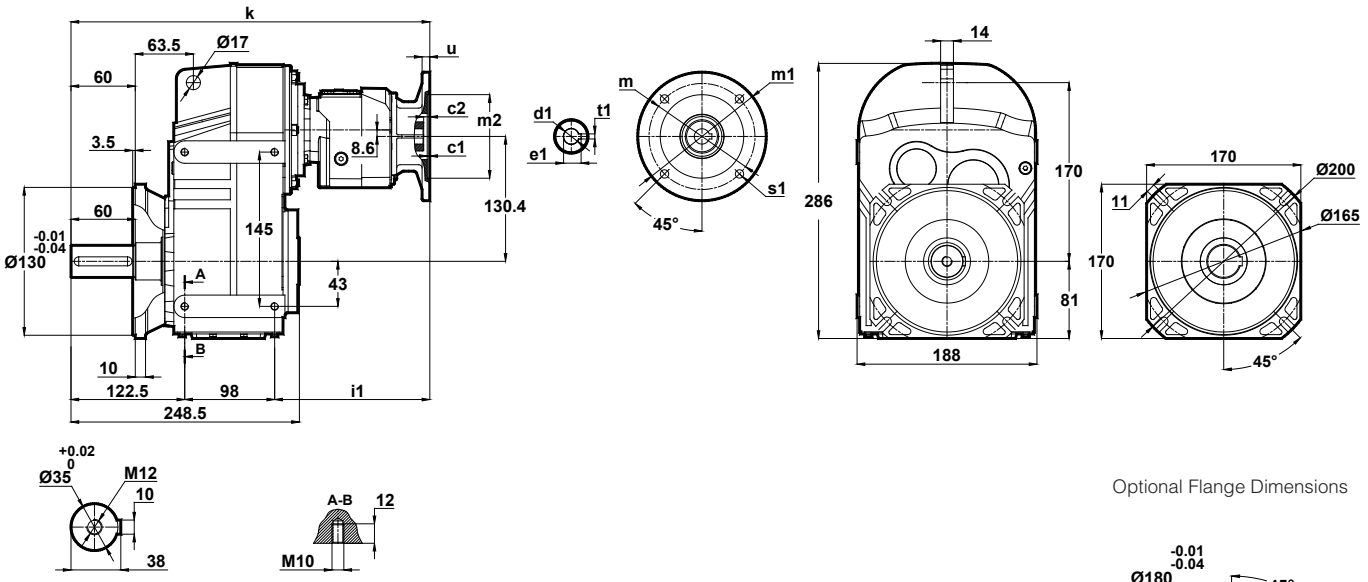
DN275.01
DN276.01



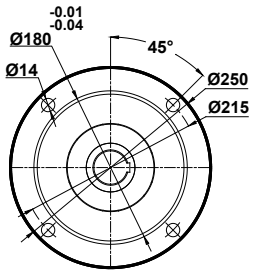
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	395	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	397	14	5	16.3



DN275.02
DN276.02

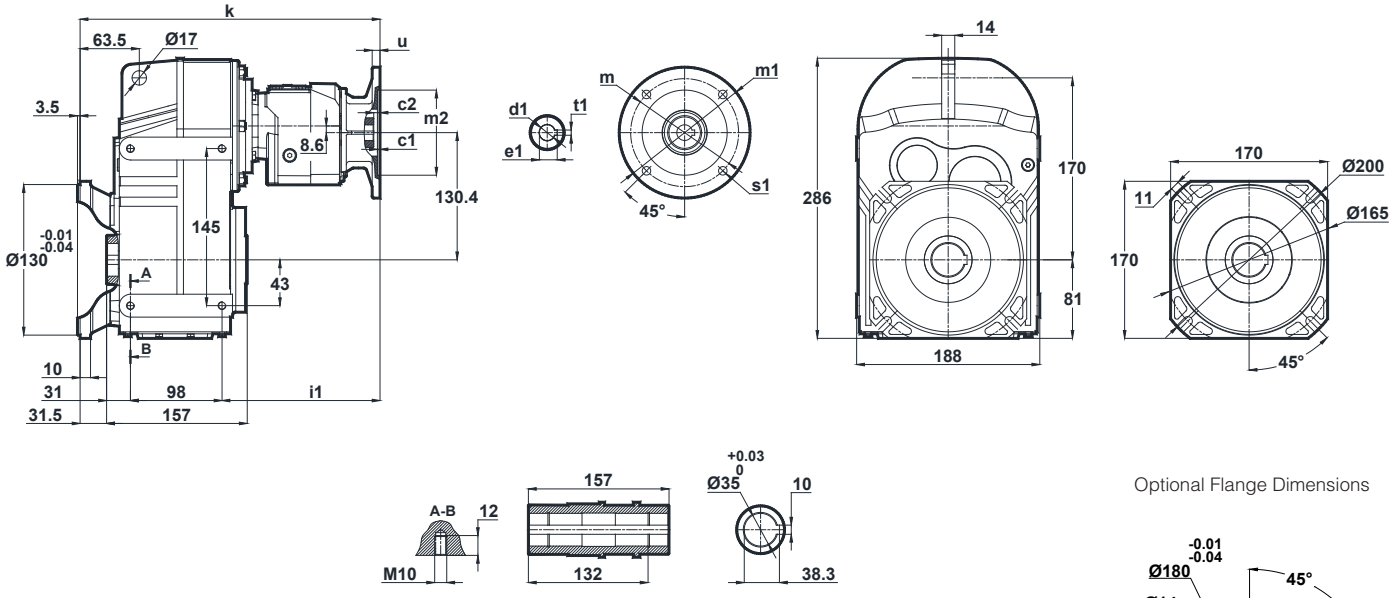


Optional Flange Dimensions

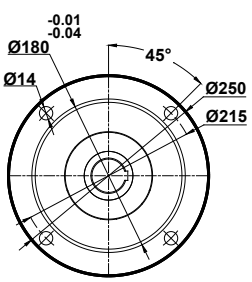


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	424	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	426	14	5	16.3

DN275.03
DN276.03

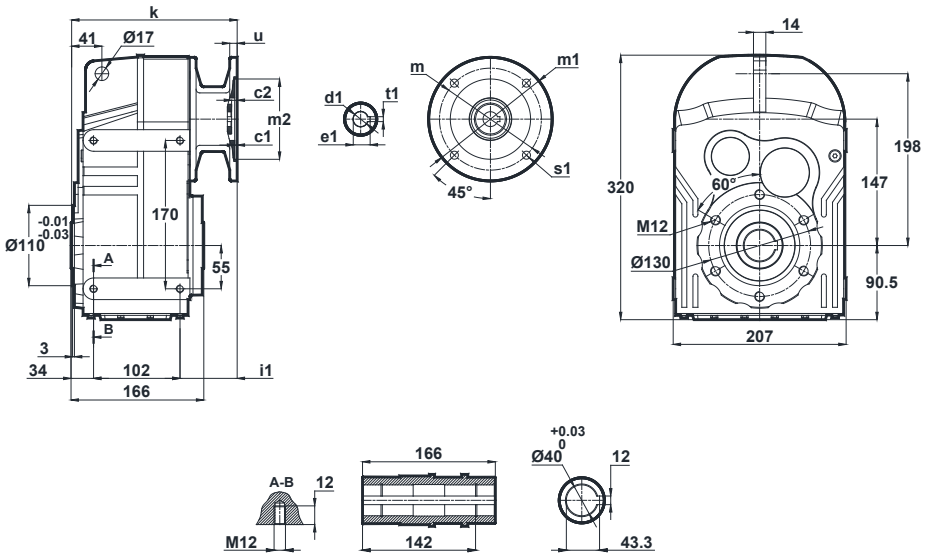


Optional Flange Dimensions



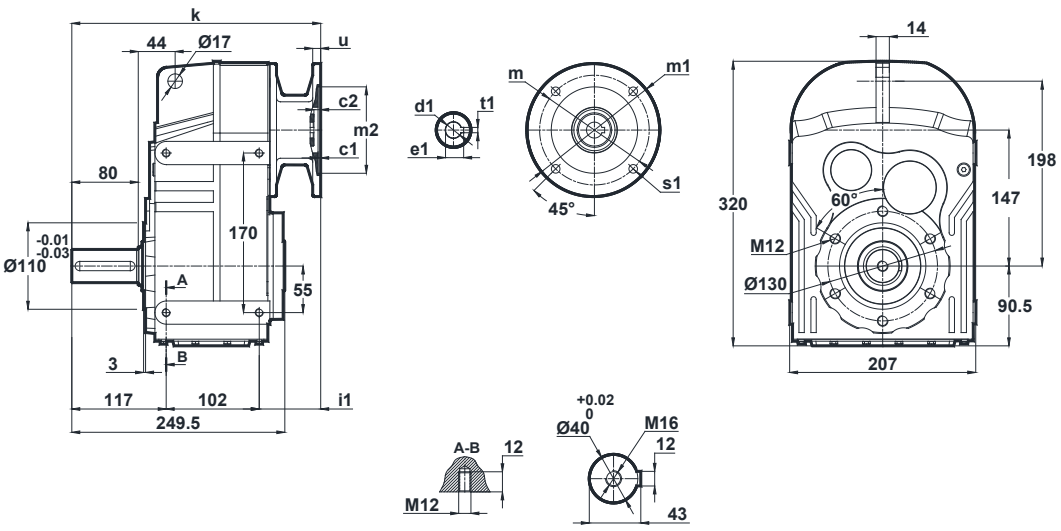
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	55	10	364	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	56	12 10	366	14	5	16.3

DN282.00
DN283.00

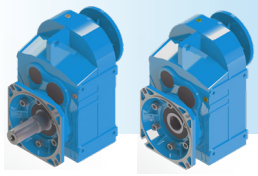


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	87	12	223	11	4	12.8
71/B5 **71/B14**	4 3	9 8.5	11 7	130 85	160 105	110 70	58	12 10	194	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	87	12	223	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	87	12	223	24	8	27.3
100/B5 **100/B14**	4	6 5.5	15 9	215 130	250 160	180 110	80	12	216	28	8	31.3
112/B5 **112/B14**	4	6 5.5	15 9	215 130	250 160	180 110	80	12	216	28	8	31.3
132/B5 **132/B14**	4.5	7 9	15 11	265 165	300 200	230 130	127	15	259	38	10	41.3

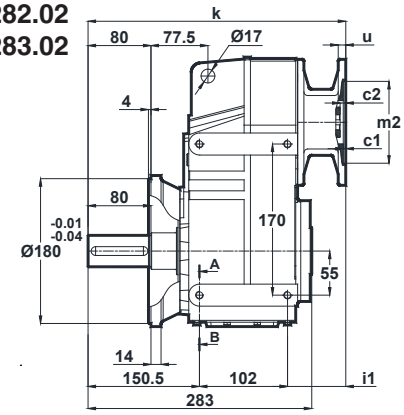
DN282.01
DN283.01

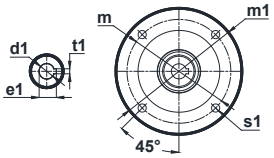


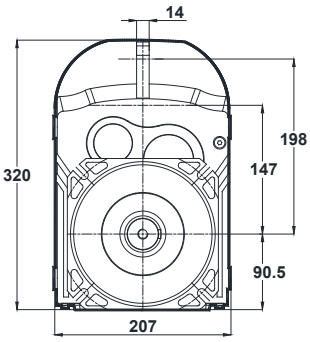
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	87	12	307	11	4	12.8
71/B5 **71/B14**	4 3	9 8.5	11 7	130 85	160 105	110 70	58	12 10	278	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	87	12	307	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	87	12	307	24	8	27.3
100/B5 **100/B14**	4	6 5.5	15 9	215 130	250 160	180 110	80	12	300	28	8	31.3
112/B5 **112/B14**	4	6 5.5	15 9	215 130	250 160	180 110	80	12	300	28	8	31.3
132/B5 **132/B14**	4.5	7 9	15 11	265 165	300 200	230 130	127	15	343	38	10	41.3

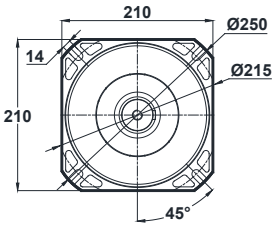


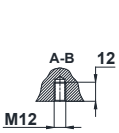
DN282.02
DN283.02

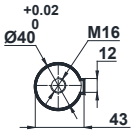




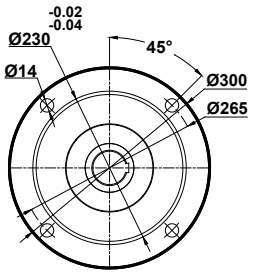








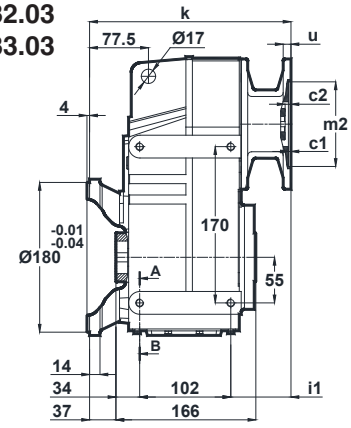
Optional Flange Dimensions

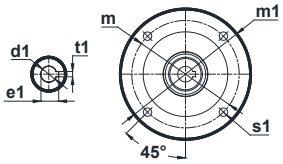


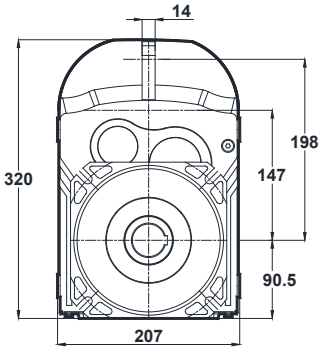
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	87	12	340	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	58	12 10	311	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	87	12	340	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	87	12	340	24	8	27.3
100/B5 100/B14	4	6 5.5	15 9	215 130	250 160	180 110	80	12	333	28	8	31.3
112/B5 112/B14	4	6 5.5	15 9	215 130	250 160	180 110	80	12	333	28	8	31.3
132/B5 132/B14	4.5	7 9	15 11	265 165	300 200	230 130	127	15	376	38	10	41.3

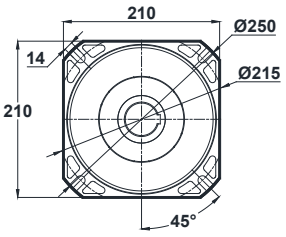
Please see on page 318 for other optional flange dimensions

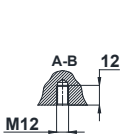
DN282.03
DN283.03

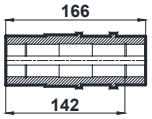


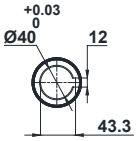




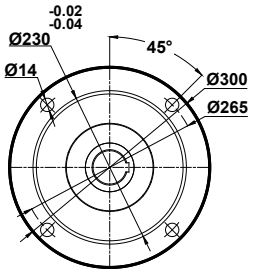








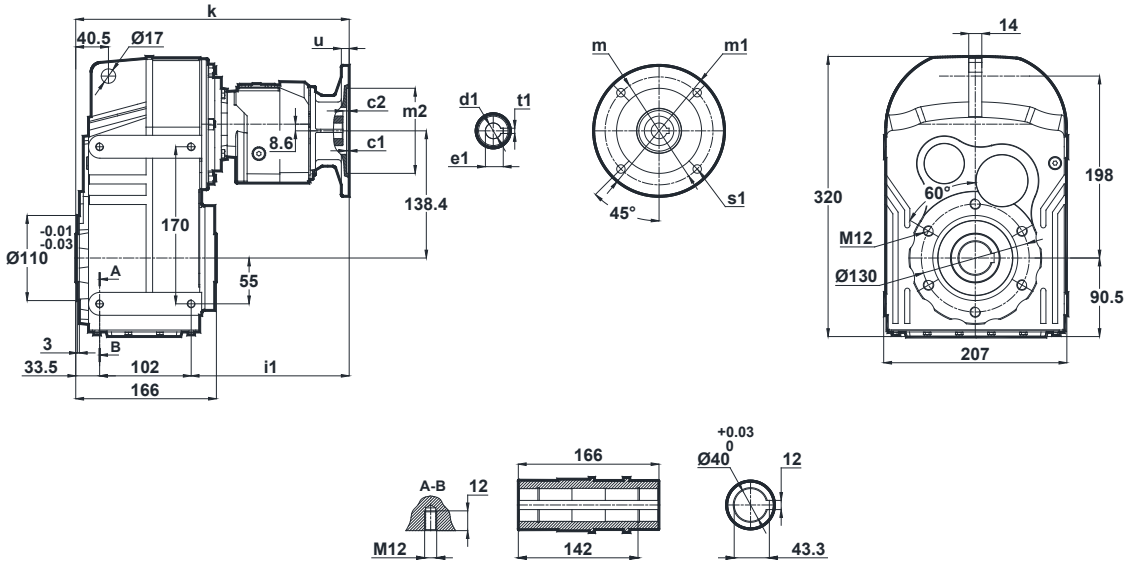
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	87	12	260	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	58	12 10	231	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	87	12	260	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	87	12	260	24	8	27.3
100/B5 100/B14	4	6 5.5	15 9	215 130	250 160	180 110	80	12	253	28	8	31.3
112/B5 112/B14	4	6 5.5	15 9	215 130	250 160	180 110	80	12	253	28	8	31.3
132/B5 132/B14	4.5	7 9	15 11	265 165	300 200	230 130	127	15	296	38	10	41.3

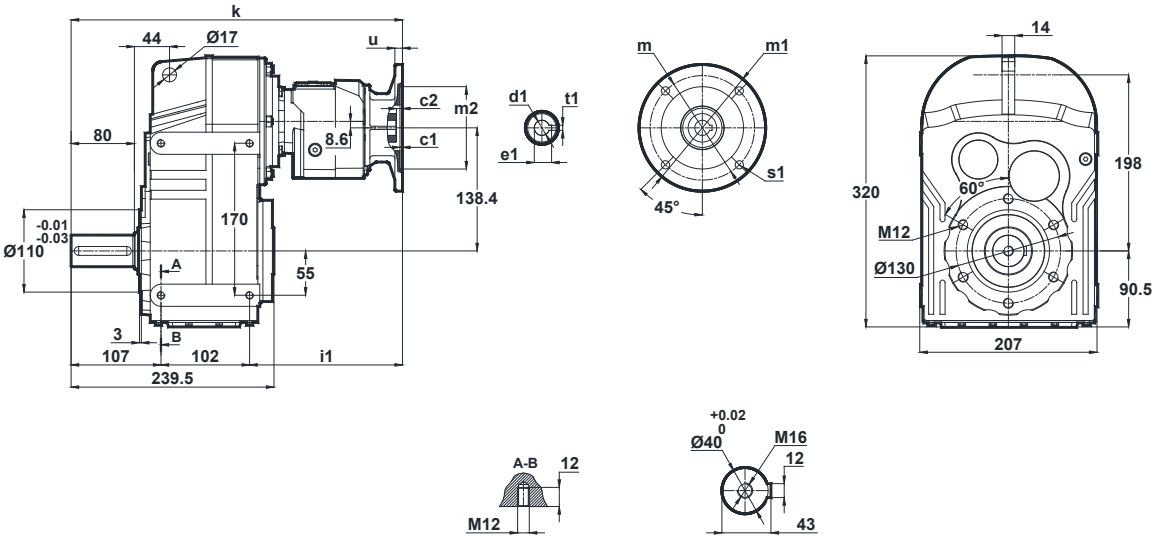
Please see on page 318 for other optional flange dimensions

DN285.00
DN286.00

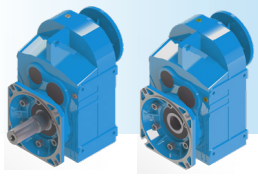


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	5	10	115	140	95	203	10	338	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	5	11	130	160	110	204	12	340	14	5	16.3
71/B14	3	4.5	7	85	105	70		10				

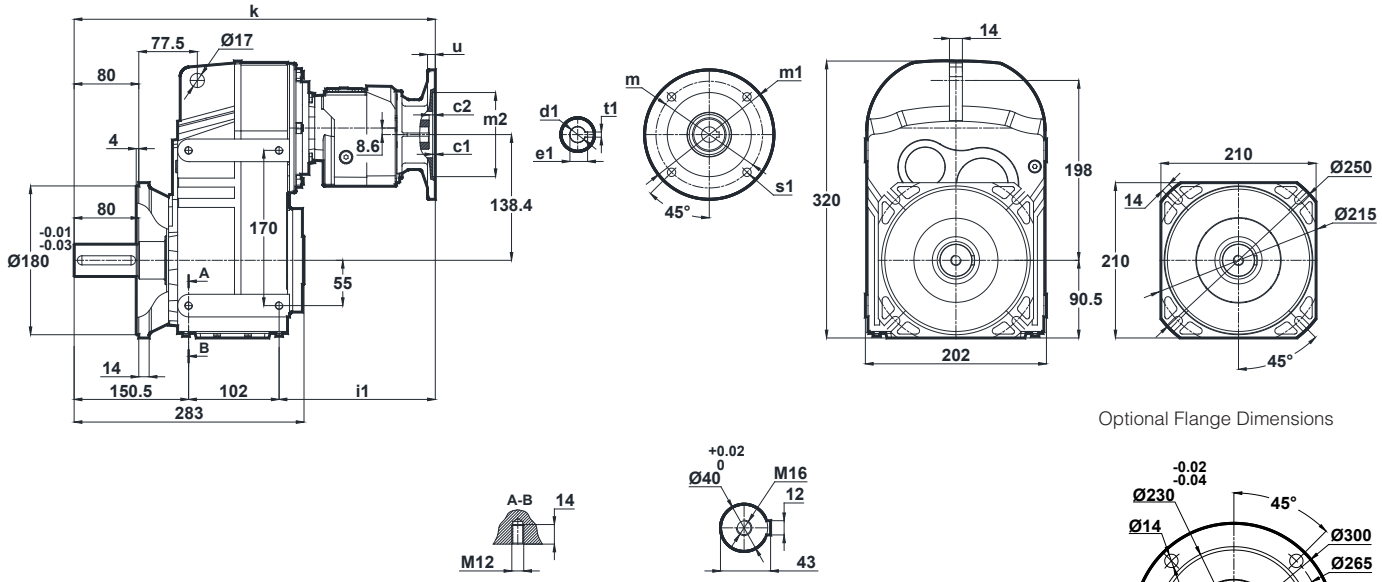
DN285.01
DN286.01



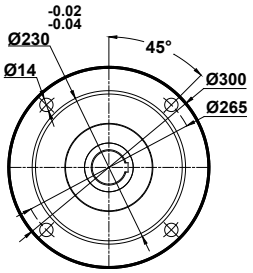
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	5	10	115	140	95	203	10	422	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	5	11	130	160	110	204	12	424	14	5	16.3
71/B14	3	4.5	7	85	105	70		10				



DN285.02
DN286.02



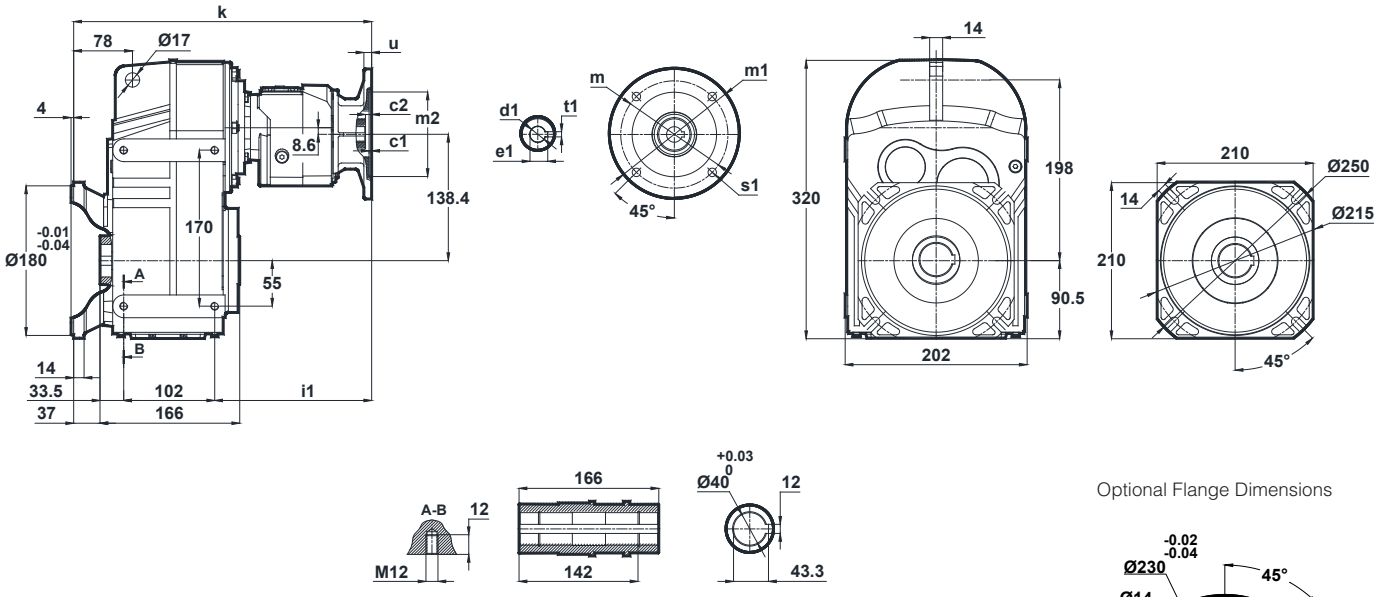
Optional Flange Dimensions



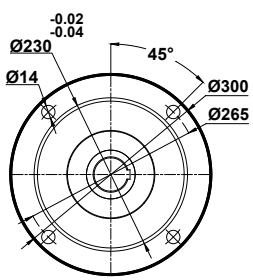
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	203	10	455	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	204	12 10	457	14	5	16.3

Please see on page 318 for other optional flange dimensions

DN285.03
DN286.03

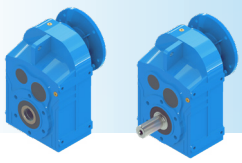


Optional Flange Dimensions

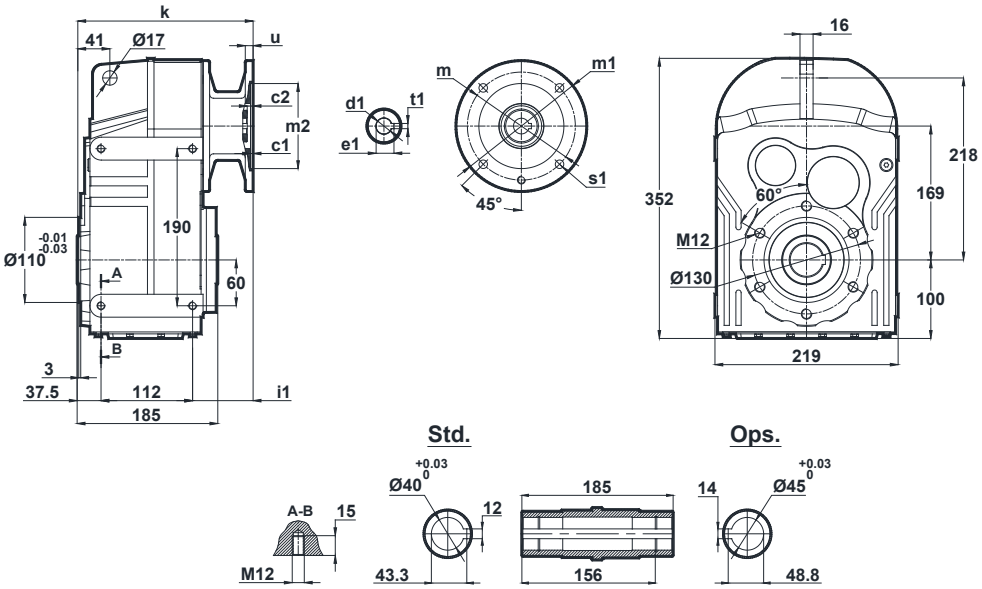


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	203	10	375	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	204	12 10	377	14	5	16.3

Please see on page 318 for other optional flange dimensions

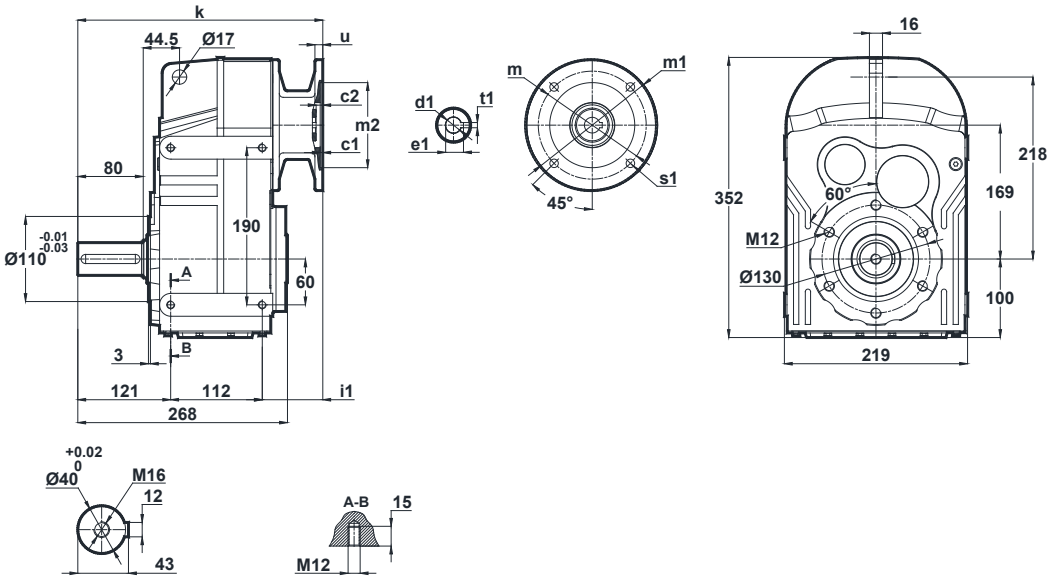


DN372.00
DN373.00

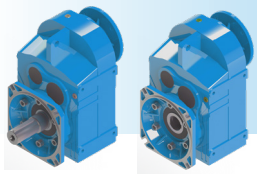


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	84	12 10	205	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	84	12	234	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	84	12	234	24	8	27.3
100/B5 100/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	227	28	8	31.3
112/B5 112/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	227	28	8	31.3
132/B5 132/B14	4.5	7 9	15 11	265 165	300 200	230 130	124	15	270	38	10	41.3

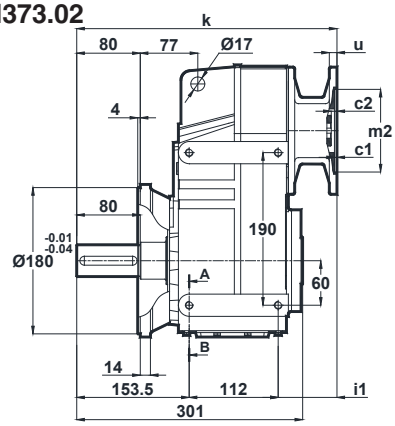
DN372.01
DN373.01

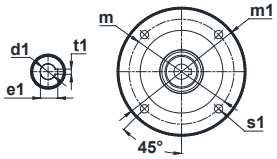


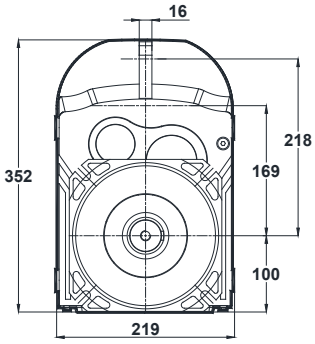
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	84	12 10	288	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	84	12	317	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	84	12	317	24	8	27.3
100/B5 100/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	310	28	8	31.3
112/B5 112/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	310	28	8	31.3
132/B5 132/B14	4.5	7 9	15 11	265 165	300 200	230 130	124	15	353	38	10	41.3

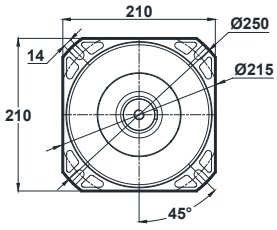


DN372.02
DN373.02

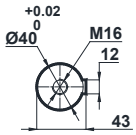


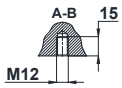


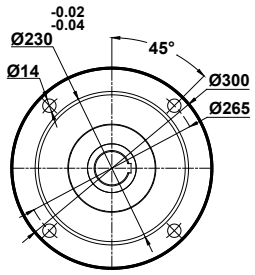




Optional Flange Dimensions



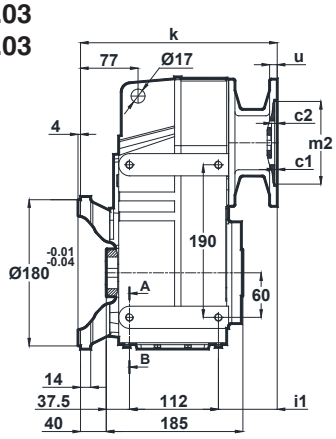


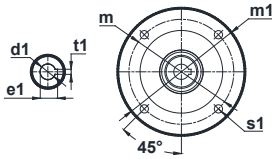


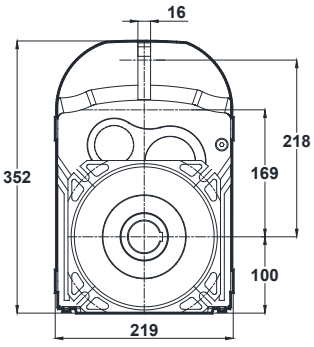
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	84	12 10	311	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	84	12	340	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	84	12	340	24	8	27.3
100/B5 100/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	333	28	8	31.3
112/B5 112/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	333	28	8	31.3
132/B5	4.5	7	15	265	300	230	124	15	376	38	10	41.3

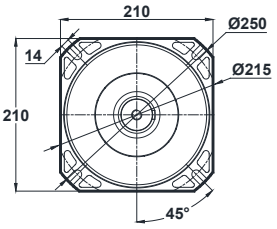
Please see on page 318 for other optional flange dimensions

DN372.03
DN373.03

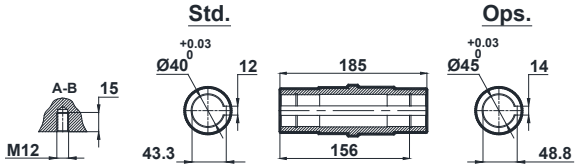




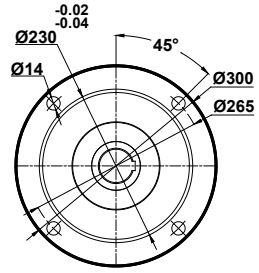




Std. Ops.



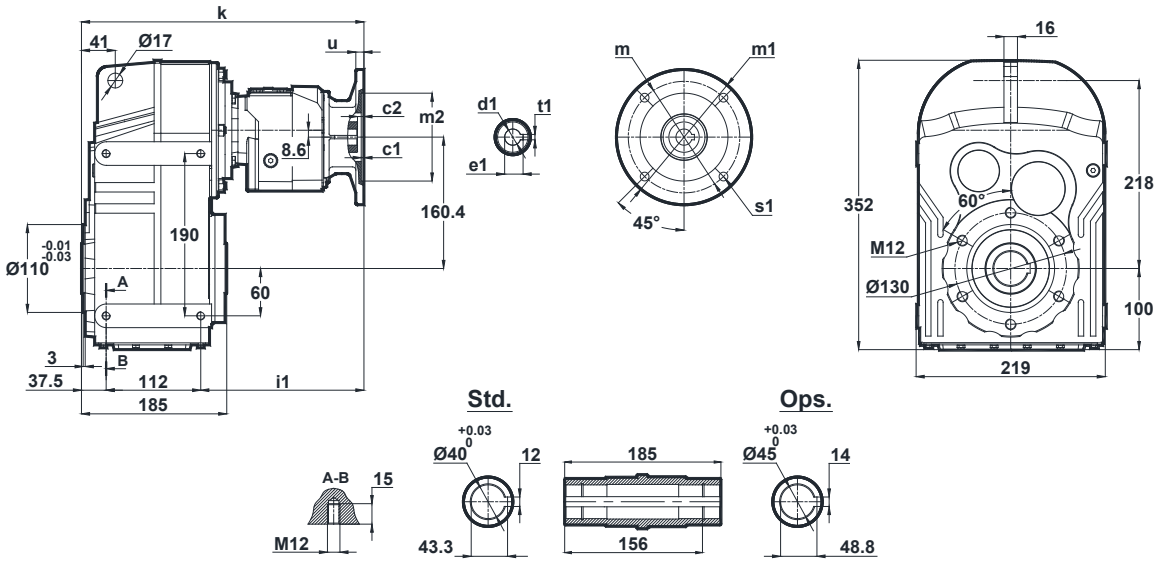
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	84	12 10	231	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	84	12	260	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	84	12	260	24	8	27.3
100/B5 100/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	253	28	8	31.3
112/B5 112/B14	4	6 5.5	15 9	215 130	250 160	180 110	77	12	253	28	8	31.3
132/B5	4.5	7	15	265	300	230	124	15	296	38	10	41.3

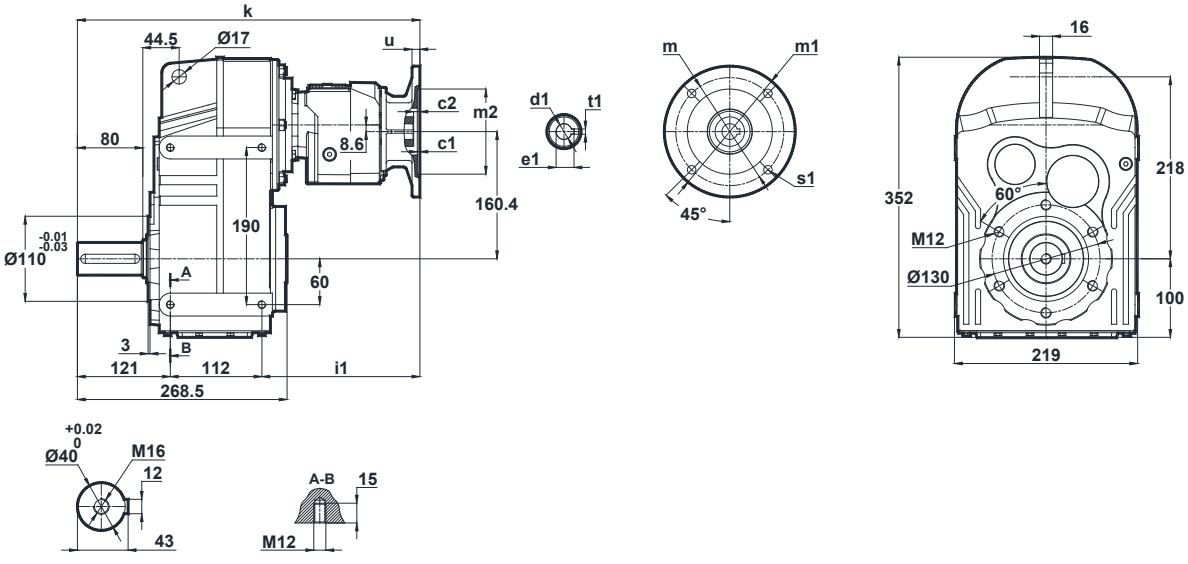
Please see on page 318 for other optional flange dimensions

DN375.00
DN376.00



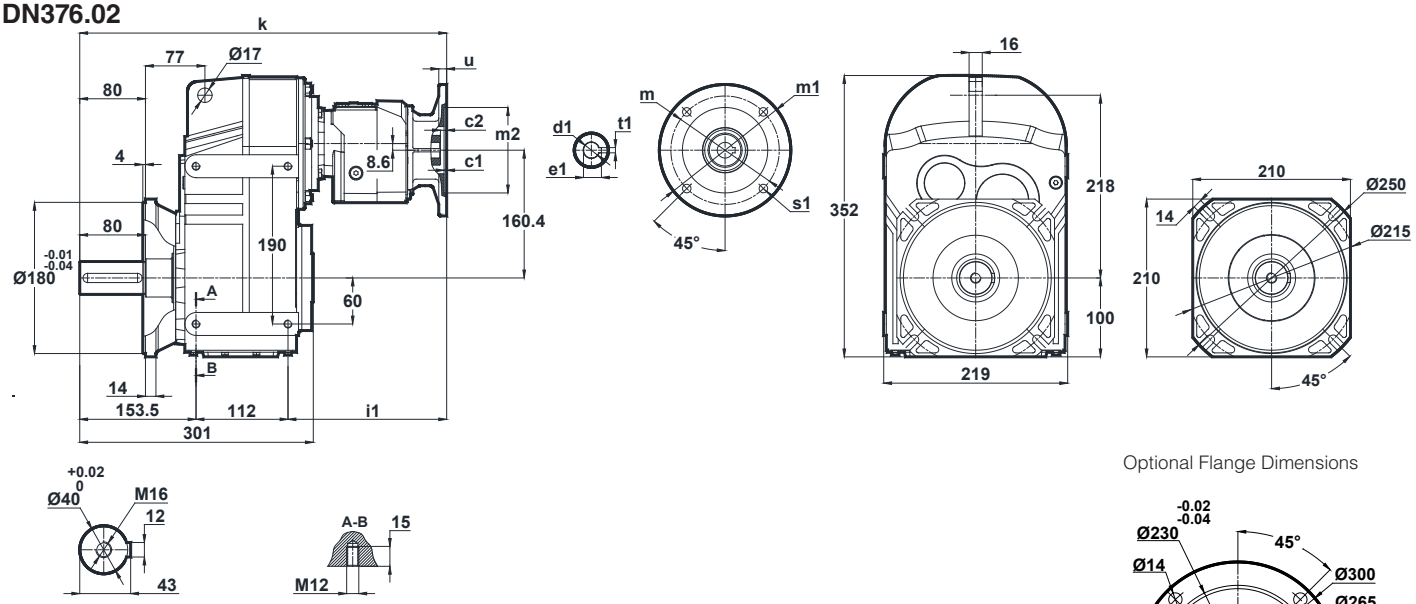
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	199	10	349	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	201	12 10	351	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	216	12	366	19	6	21.8

DN375.01
DN376.01

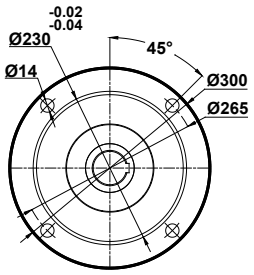


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	199	10	432	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	201	12 10	434	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	216	12	449	19	6	21.8

DN375.02
DN376.02



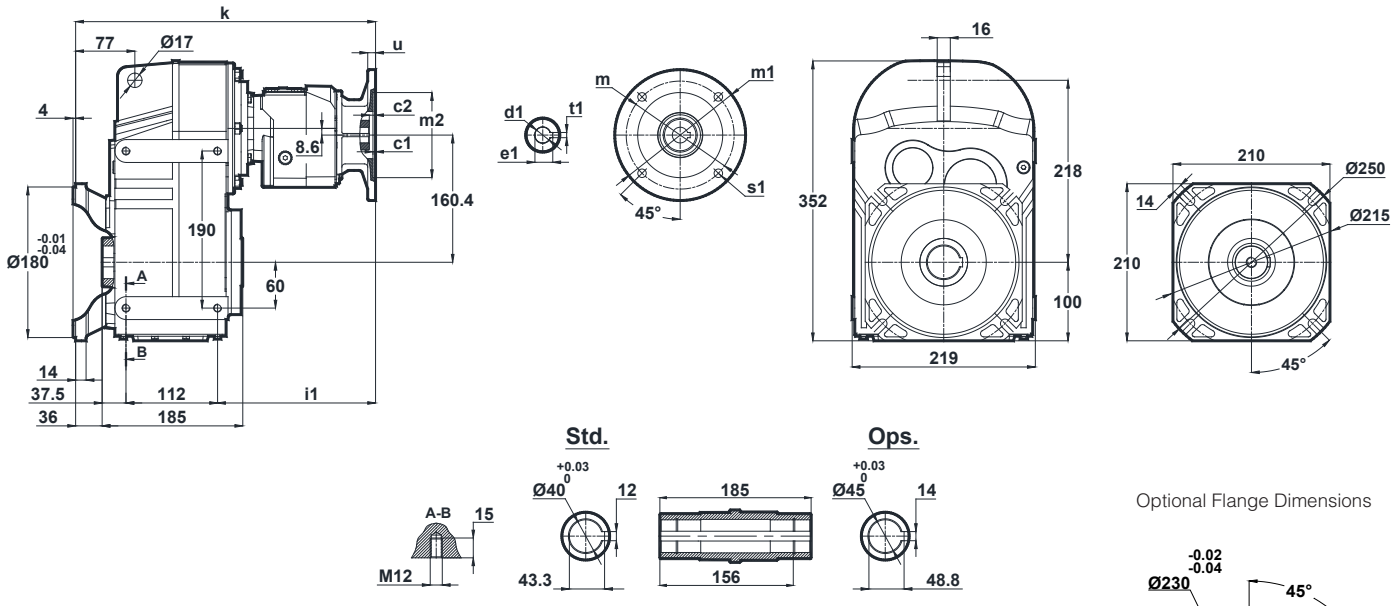
Optional Flange Dimensions



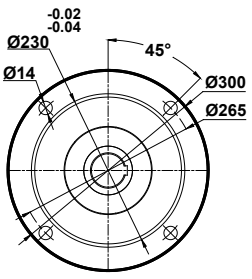
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	199	10	465	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	201	12 10	467	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	216	12	482	19	6	21.8

Please see on page 318 for other optional flange dimensions

DN375.03
DN376.03



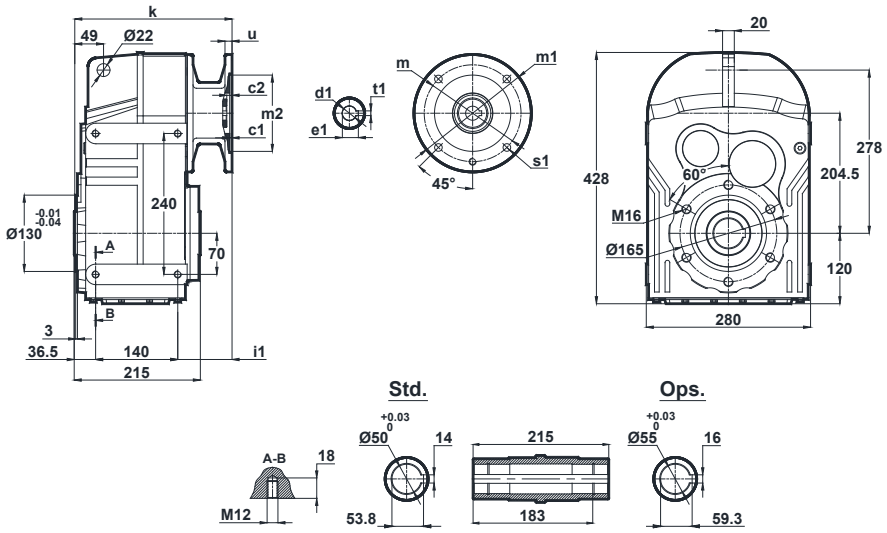
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 **63/B14**	4 2.5	5	10 5.5	115 75	140 90	95 60	199	10	385	11	4	12.8
71/B5 **71/B14**	4 3	5 4.5	11 7	130 85	160 105	110 70	201	12 10	387	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	216	12	402	19	6	21.8

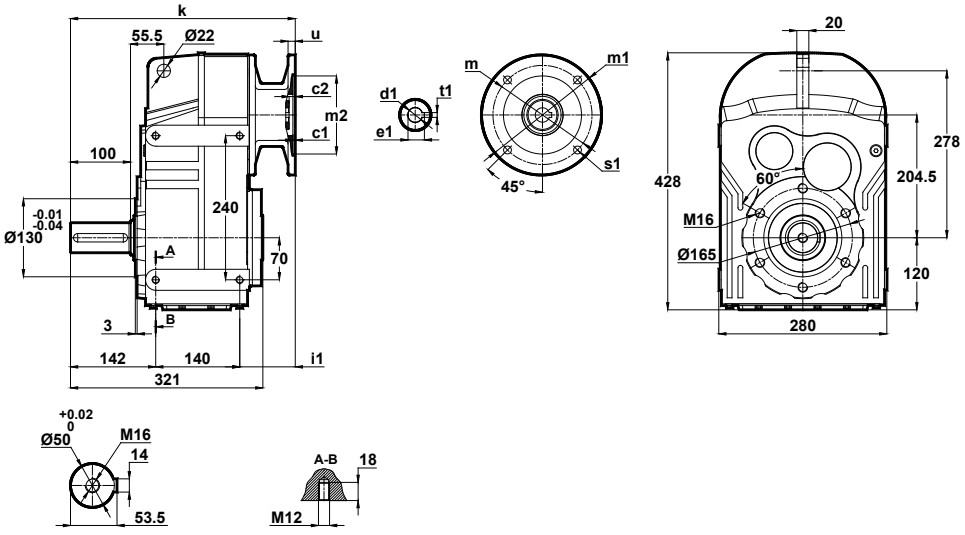
Please see on page 318 for other optional flange dimensions

DN472.00
DN473.00

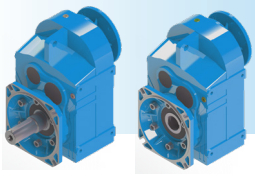


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	83	12	260	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	83	12	260	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	83	12	260	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	277	28	8	31.3
112/B5 **112/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	277	28	8	31.3
132/B5 **132/B14**	5 4.5	7	15 11	265 165	300 200	230 130	120	15	297	38	10	41.3
160/B5	5.5	10	19	300	350	250	199	20	376	42	12	45.3

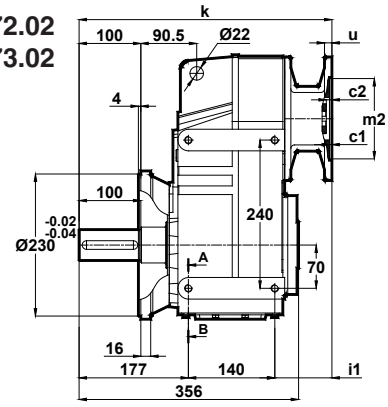
DN472.01
DN473.01

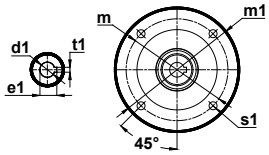


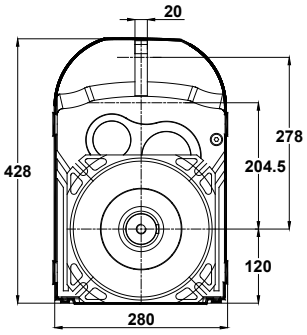
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	83	12	365	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	83	12	365	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	83	12	365	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	382	28	8	31.3
112/B5 **112/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	382	28	8	31.3
132/B5 **132/B14**	5 4.5	7	15 11	265 165	300 200	230 130	120	15	402	38	10	41.3
160/B5	5.5	10	19	300	350	250	199	20	481	42	12	45.3

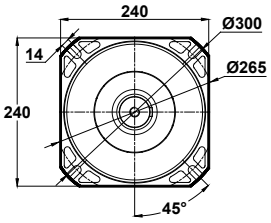


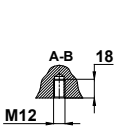
DN472.02
DN473.02

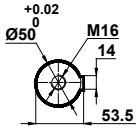




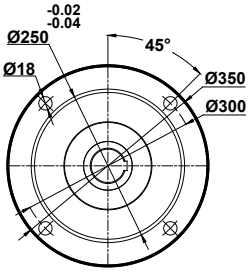








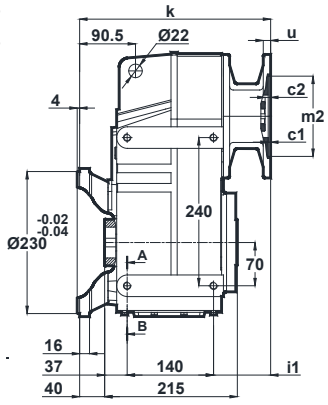
Optional Flange Dimensions

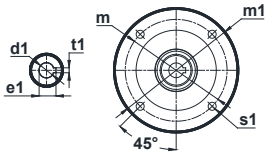


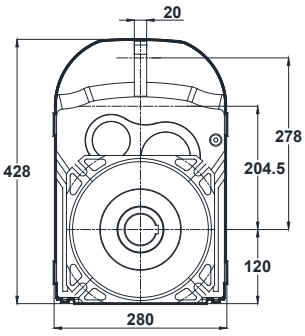
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	83	12	400	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	83	12	400	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	83	12	400	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	417	28	8	31.3
112/B5 **112/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	417	28	8	31.3
132/B5 **132/B14**	5 4.5	7	15 11	265 165	300 200	230 130	120	15	437	38	10	41.3
160/B5	5.5	10	19	300	350	250	199	20	516	42	12	45.3

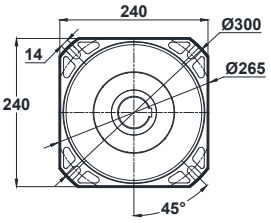
Please see on page 318 for other optional flange dimensions

DN472.03
DN473.03

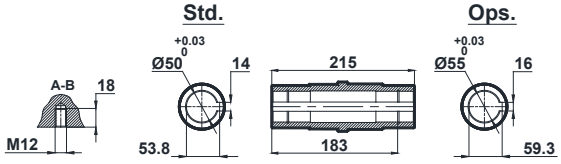




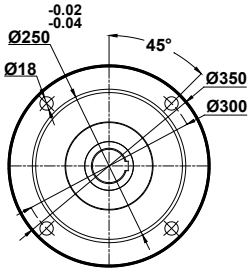




Std. **Ops.**



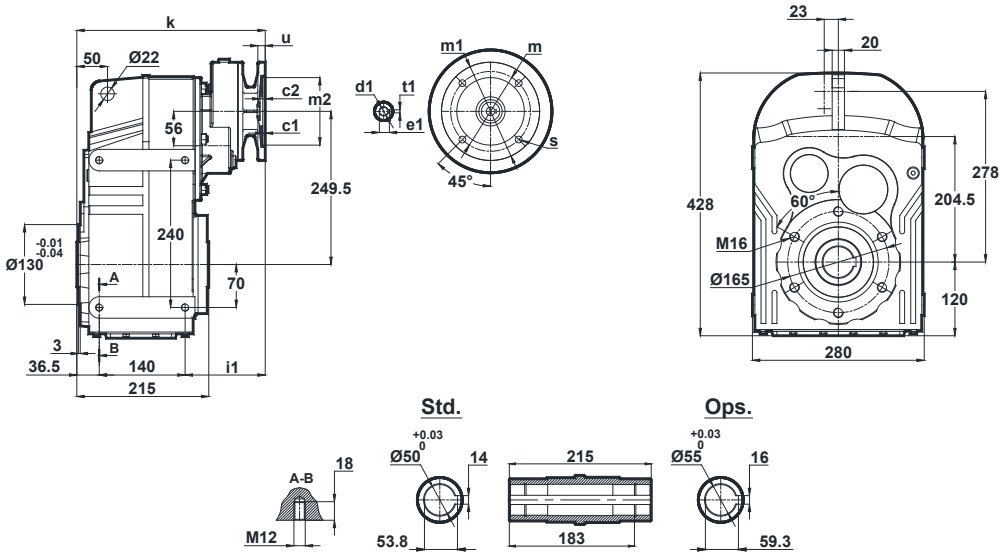
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	83	12	300	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	83	12	300	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	83	12	300	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	317	28	8	31.3
112/B5 **112/B14**	5 4	9	15 9	215 130	250 160	180 110	100	15	317	28	8	31.3
132/B5 **132/B14**	5 4.5	7	15 11	265 165	300 200	230 130	120	15	337	38	10	41.3
160/B5	5.5	10	19	300	350	250	199	20	416	42	12	45.3

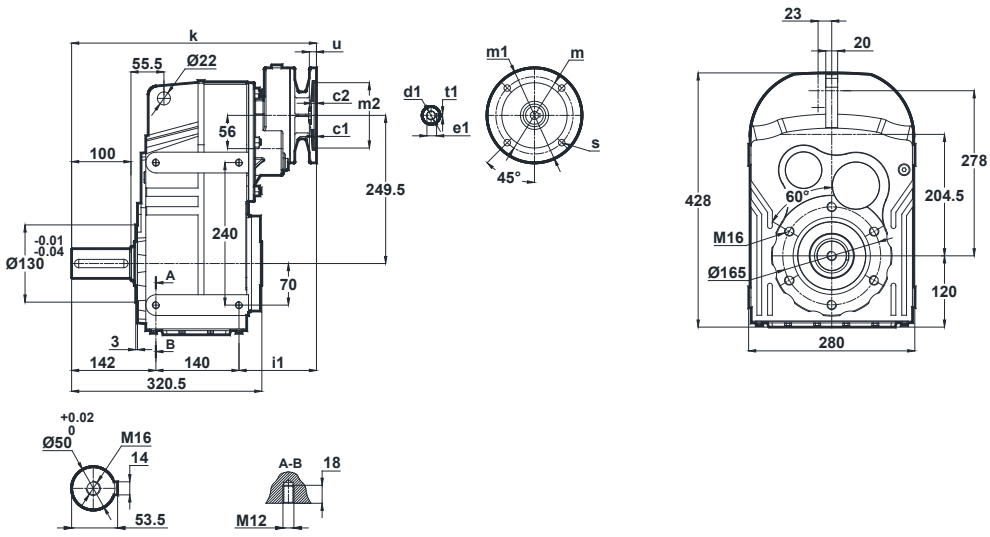
Please see on page 318 for other optional flange dimensions

DN474.00



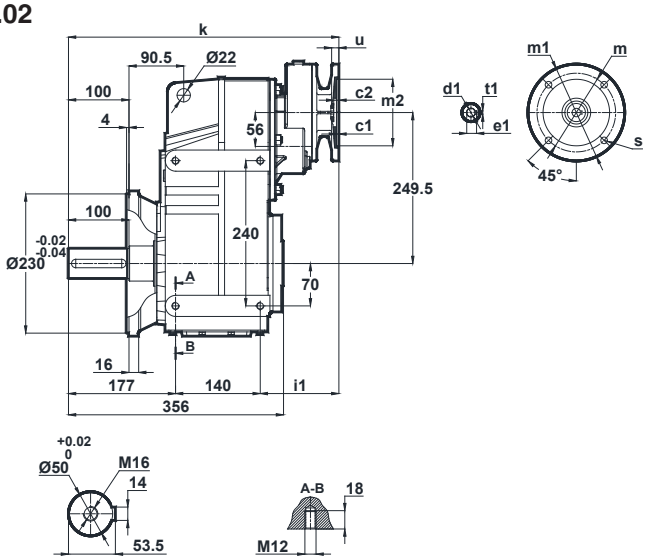
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	160	12	337	11	4	12.8
71/B5 **71/B14**	4 3	9 8.5	11 7	130 85	160 105	110 70	131	12 10	308	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	166	12	343	19	6	21.8

DN474.01

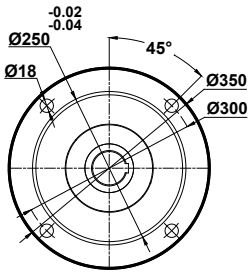


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	160	12	442	11	4	12.8
71/B5 **71/B14**	4 3	9 8.5	11 7	130 85	160 105	110 70	131	12 10	413	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	166	12	448	19	6	21.8

DN474.02



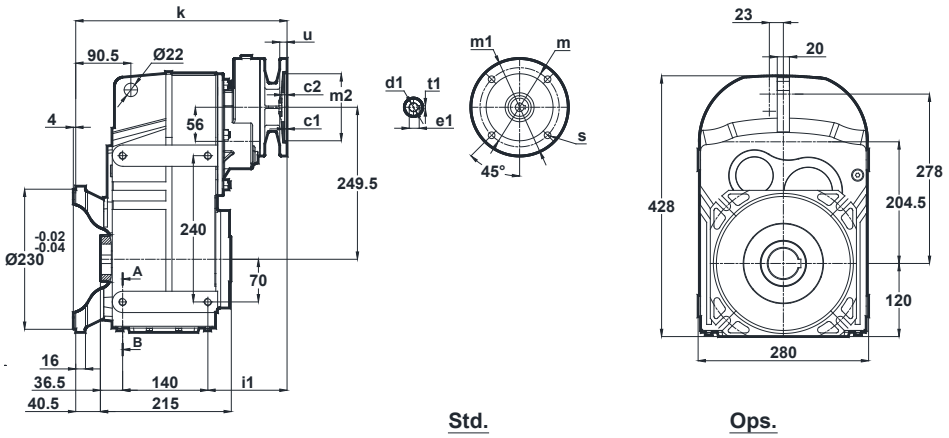
Optional Flange Dimensions



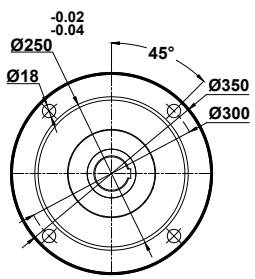
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	160	12	477	11	4	12.8
71/B5 **71/B14**	4 3	9 8.5	11 7	130 85	160 105	110 70	131	12 10	448	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	166	12	483	19	6	21.8

Please see on page 318 for other optional flange dimensions

DN474.03



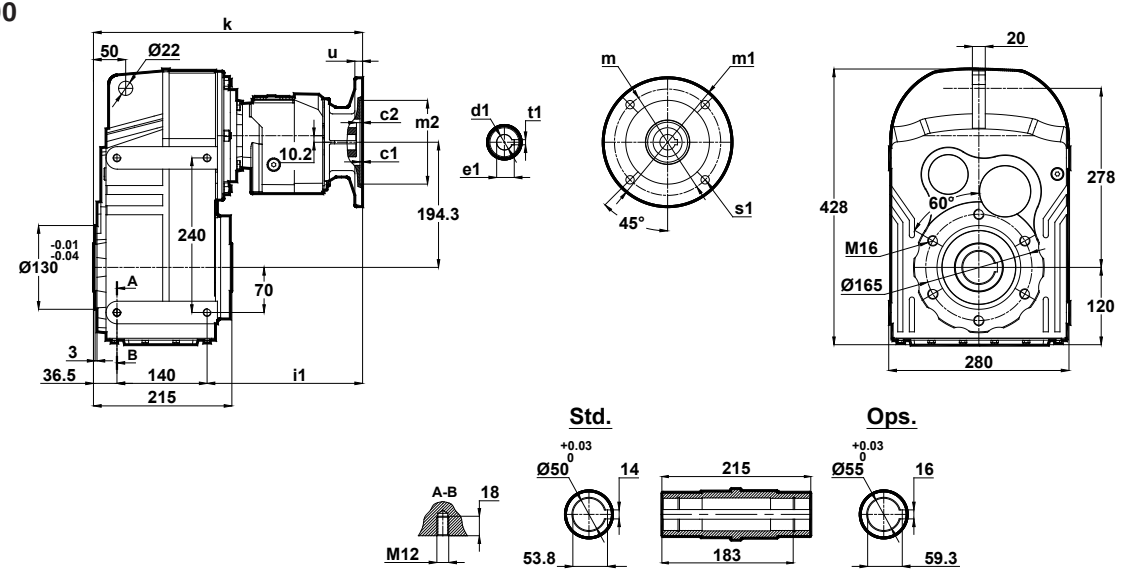
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	160	12	377	11	4	12.8
71/B5 **71/B14**	4 3	9 8.5	11 7	130 85	160 105	110 70	131	12 10	348	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	166	12	383	19	6	21.8

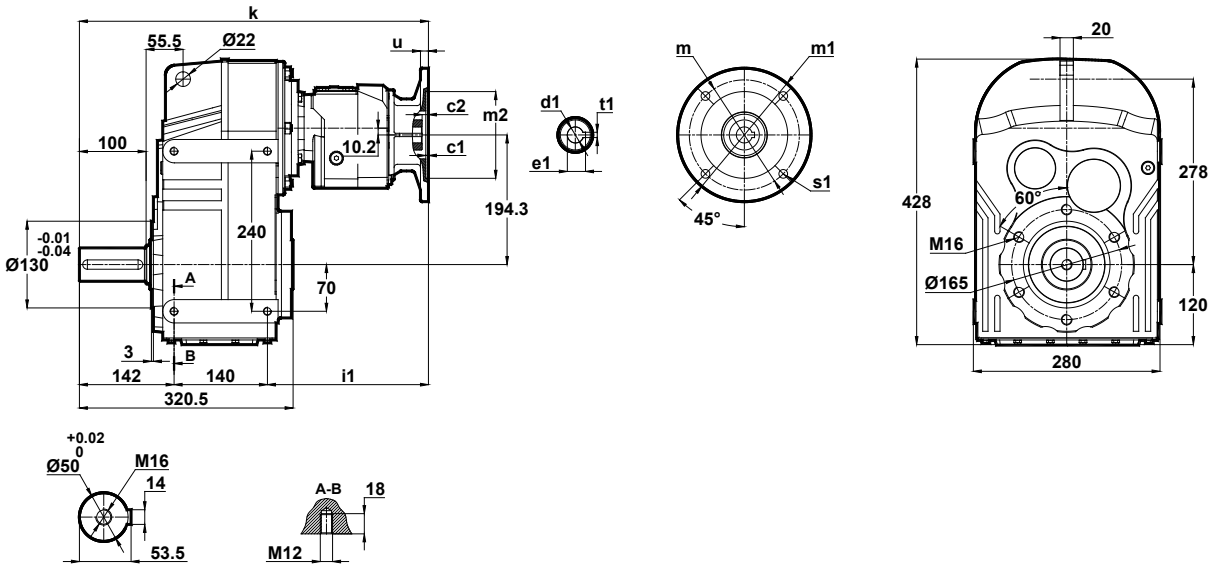
Please see on page 318 for other optional flange dimensions

DN475.00
DN476.00



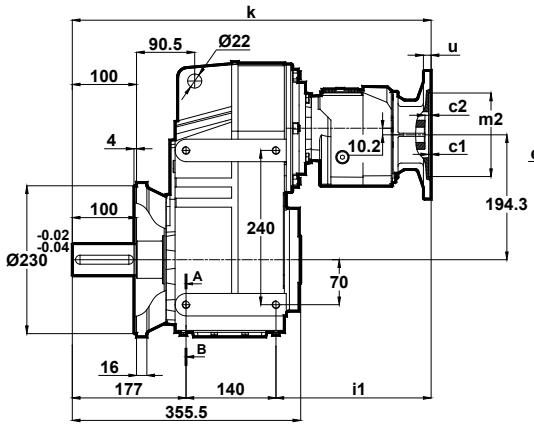
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	226	10	402	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	241	12 10	404	14	5	16.3

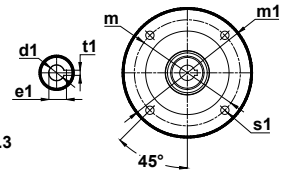
DN475.01
DN476.01

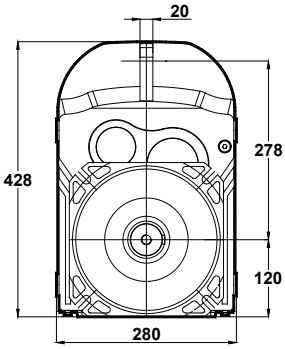


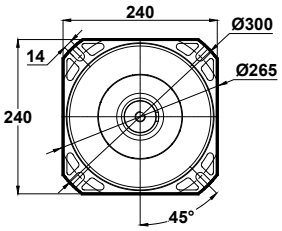
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	226	10	507	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	241	12 10	509	14	5	16.3

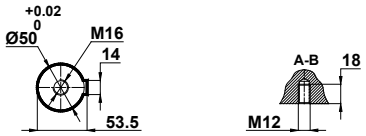
DN475.02
DN476.02



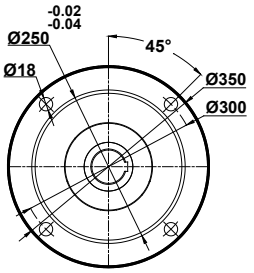








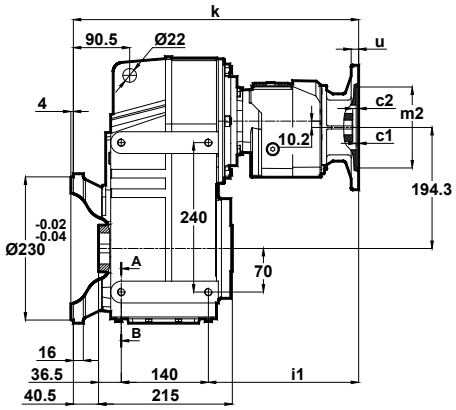
Optional Flange Dimensions

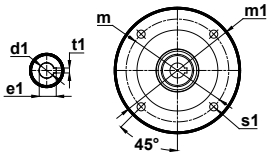


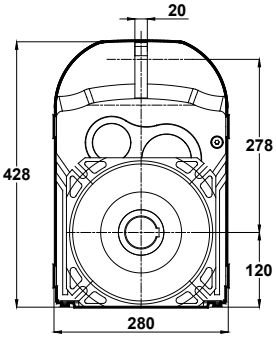
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	226	10	542	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	241	12 10	544	14	5	16.3

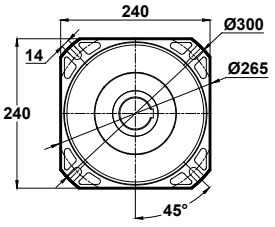
Please see on page 318 for other optional flange dimensions

DN475.03
DN476.03

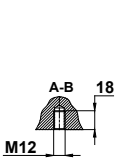


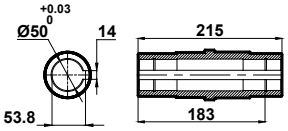




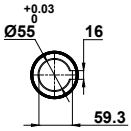


Std.

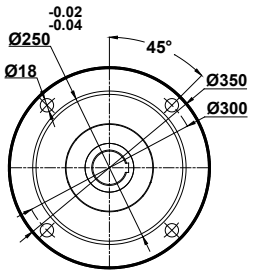




Ops.



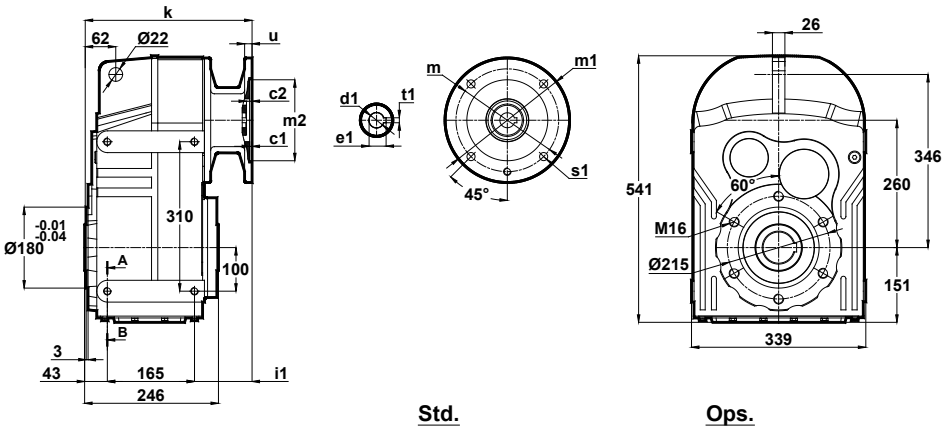
Optional Flange Dimensions

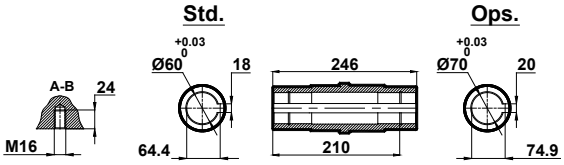


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5 63/B14	4 2.5	5	10 5.5	115 75	140 90	95 60	226	10	442	11	4	12.8
71/B5 71/B14	4 3	5 4.5	11 7	130 85	160 105	110 70	241	12 10	444	14	5	16.3

Please see on page 318 for other optional flange dimensions

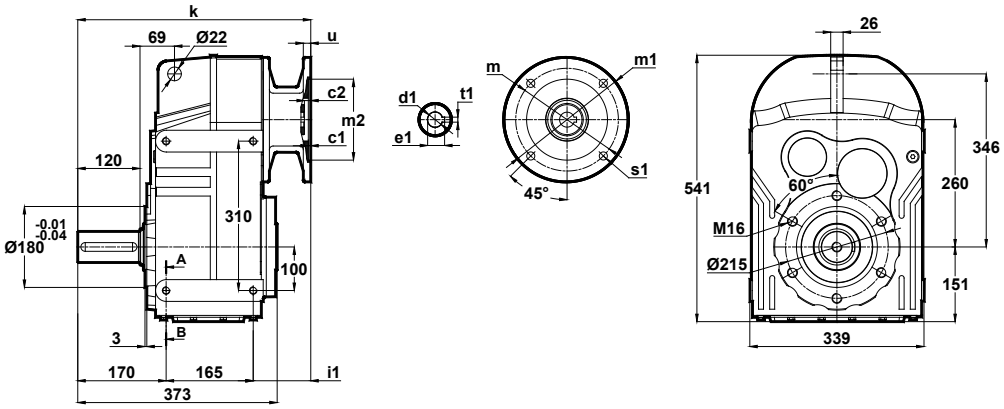
DN572.00
DN573.00

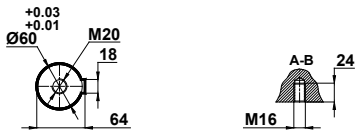




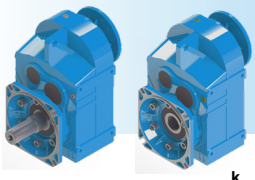
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	68	12	277	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	68	12	277	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	87	15	295	28	8	31.3
112/B5 **112/B14**	5 4	9	15 9	215 130	250 160	180 110	87	15	295	28	8	31.3
132/B5 **132/B14**	5 4.5	6	15 11	265 165	300 200	230 130	105	15	314	38	10	41.3
160/B5	5.5	10	19	300	350	250	185	20	393	42	12	45.3
180/B5	6	10	19	300	350	250	185	20	393	48	14	51.8

DN572.01
DN573.01

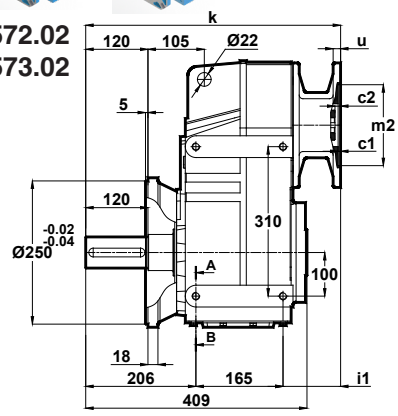


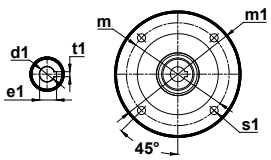


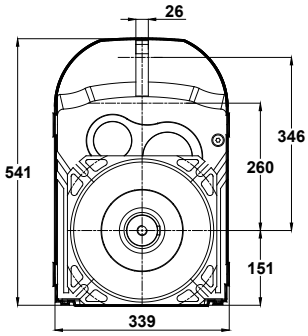
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	68	12	404	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	68	12	404	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	87	15	422	28	8	31.3
112/B5 **112/B14**	5 4	9	15 9	215 130	250 160	180 110	87	15	422	28	8	31.3
132/B5 **132/B14**	5 4.5	6	15 11	265 165	300 200	230 130	105	15	441	38	10	41.3
160/B5	5.5	10	19	300	350	250	185	20	520	42	12	45.3
180/B5	6	10	19	300	350	250	185	20	520	48	14	51.8

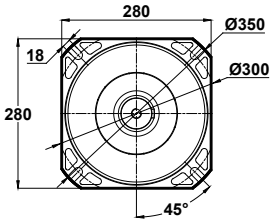


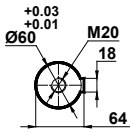
DN572.02
DN573.02

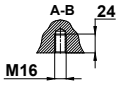




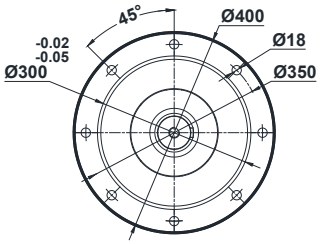








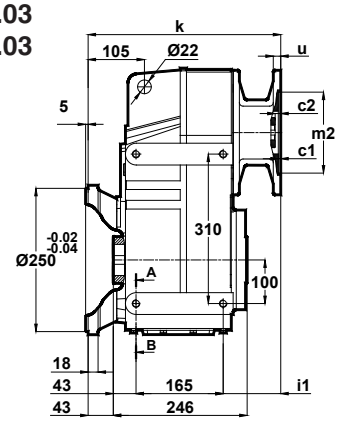
Optional Flange Dimensions

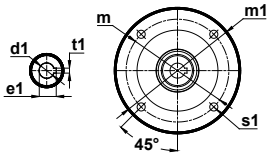


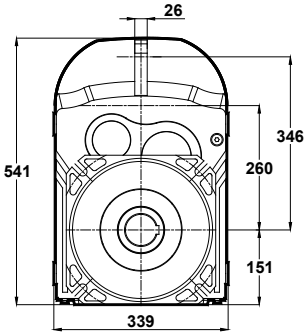
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	68	12	440	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	68	12	440	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	87	15	458	28	8	31.3
112/B5 112/B14	5 4	9	15 9	215 130	250 160	180 110	87	15	458	28	8	31.3
132/B5 132/B14	5 4.5	6	15 11	265 165	300 200	230 130	105	15	477	38	10	41.3
160/B5	5.5	10	19	300	350	250	185	20	556	42	12	45.3
180/B5	6	10	19	300	350	250	185	20	556	48	14	51.8

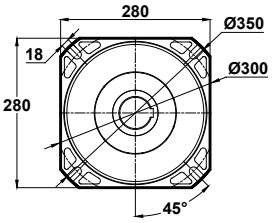
Please see on page 318 for other optional flange dimensions

DN572.03
DN573.03

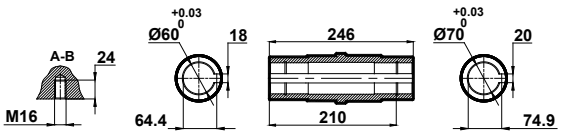




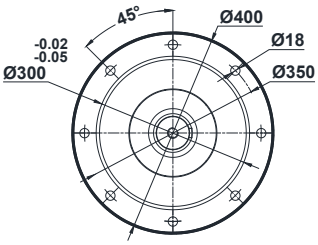




Std. **Ops.**



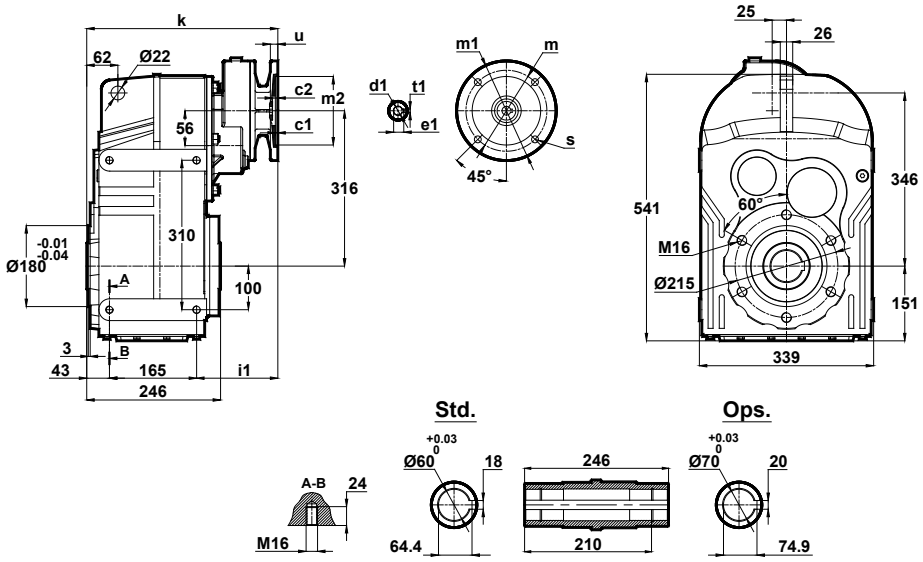
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	68	12	320	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	68	12	320	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	87	15	338	28	8	31.3
112/B5 112/B14	5 4	9	15 9	215 130	250 160	180 110	87	15	338	28	8	31.3
132/B5 132/B14	5 4.5	6	15 11	265 165	300 200	230 130	105	15	357	38	10	41.3
160/B5	5.5	10	19	300	350	250	185	20	436	42	12	45.3
180/B5	6	10	19	300	350	250	185	20	436	48	14	51.8

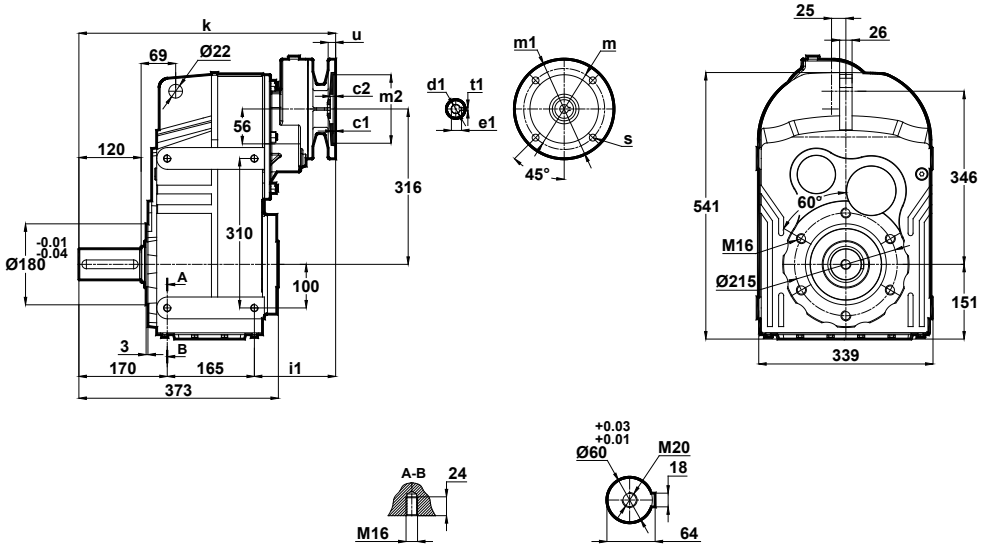
Please see on page 318 for other optional flange dimensions

DN574.00



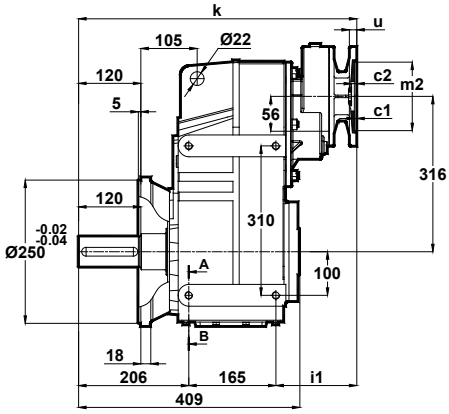
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	166	12	375	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	166	12	375	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	166	12	375	24	8	27.3

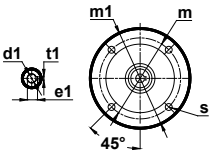
DN574.01

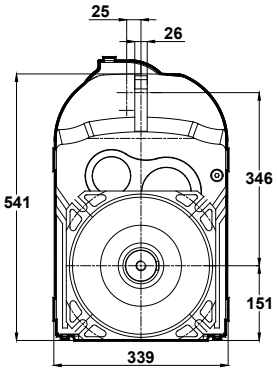


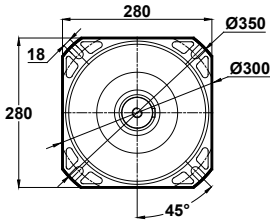
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	166	12	502	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	166	12	502	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	166	12	502	24	8	27.3

DN574.02

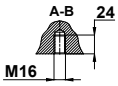


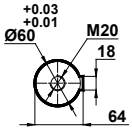


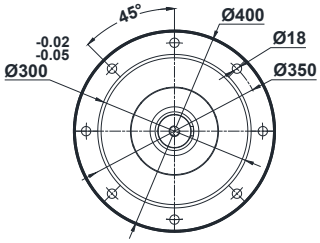




Optional Flange Dimensions



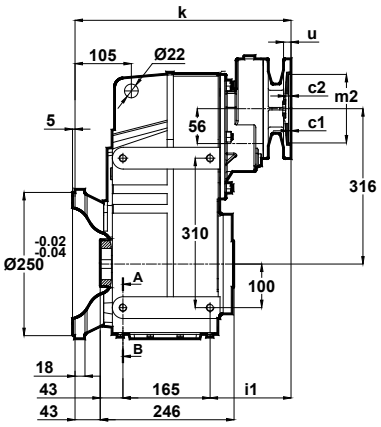


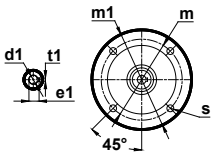


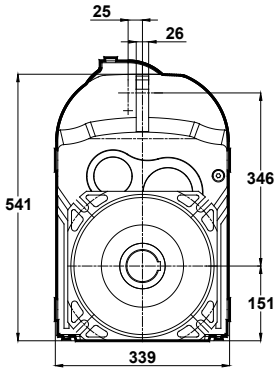
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	166	12	538	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	166	12	538	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	166	12	538	24	8	27.3

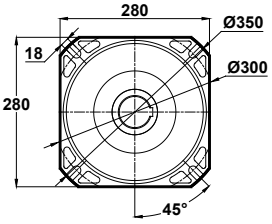
Please see on page 318 for other optional flange dimensions

DN574.03

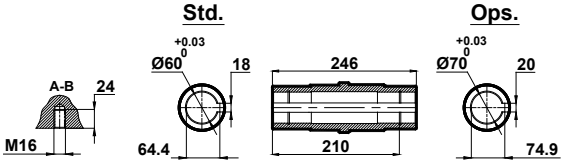


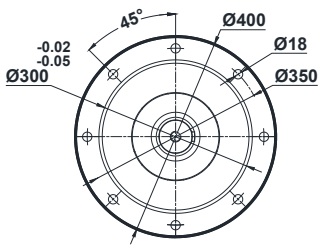






Optional Flange Dimensions

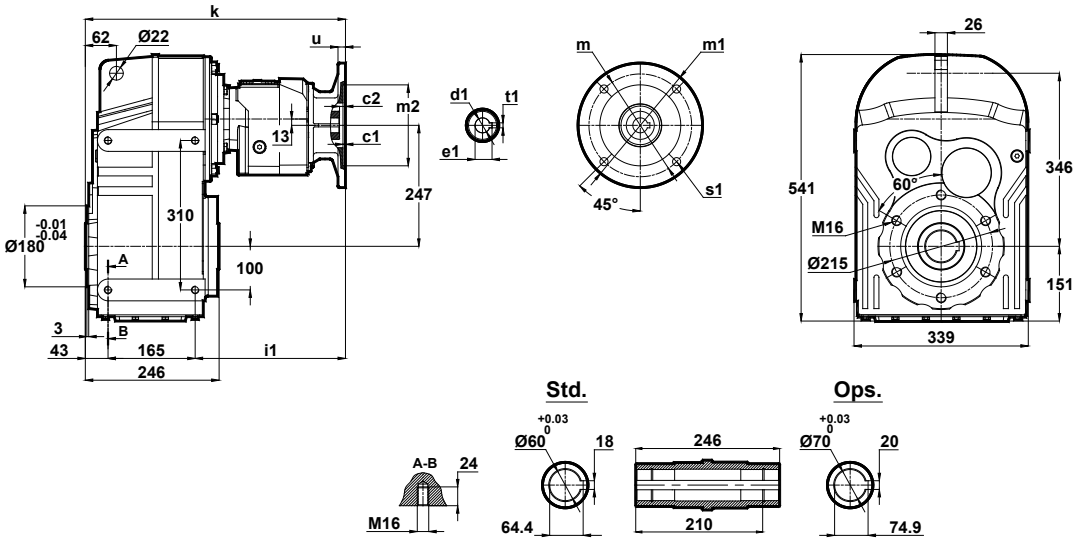




	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	166	12	418	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	166	12	418	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	166	12	418	24	8	27.3

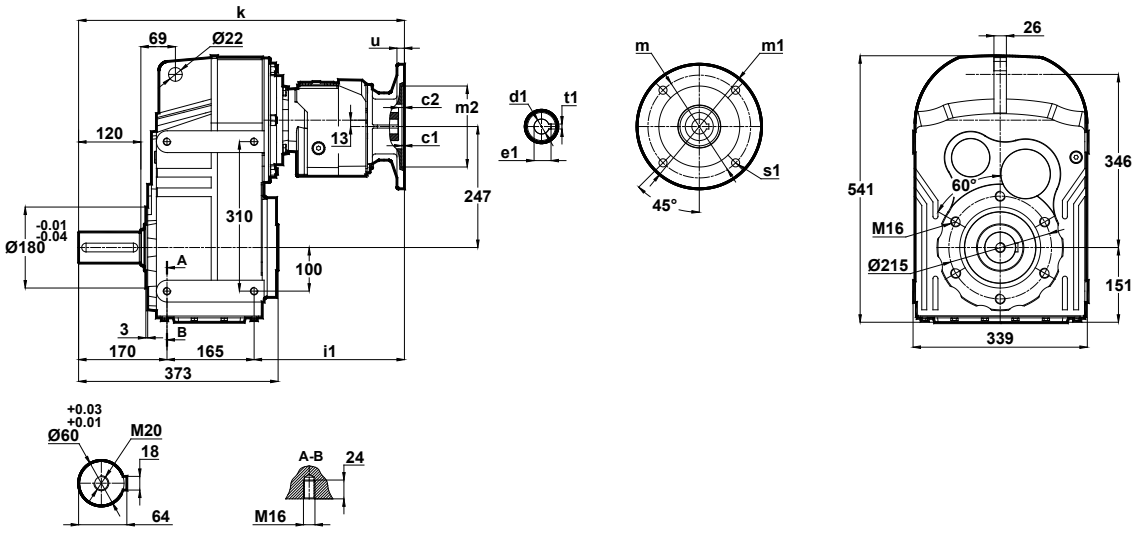
Please see on page 318 for other optional flange dimensions

DN575.00
DN576.00



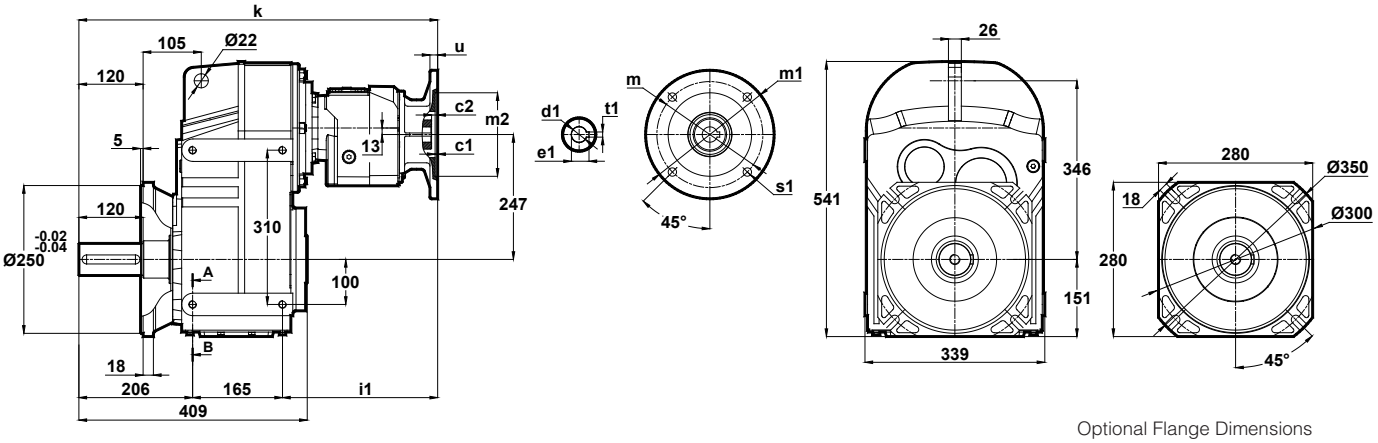
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	294	12	503	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	265	12 10	474	14	5	16.3

DN575.01
DN576.01

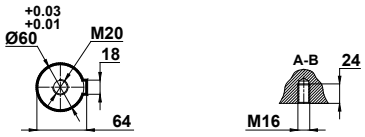


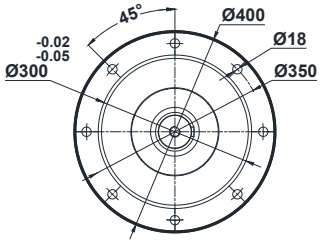
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	294	12	630	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	265	12 10	601	14	5	16.3

DN575.02
DN576.02



Optional Flange Dimensions

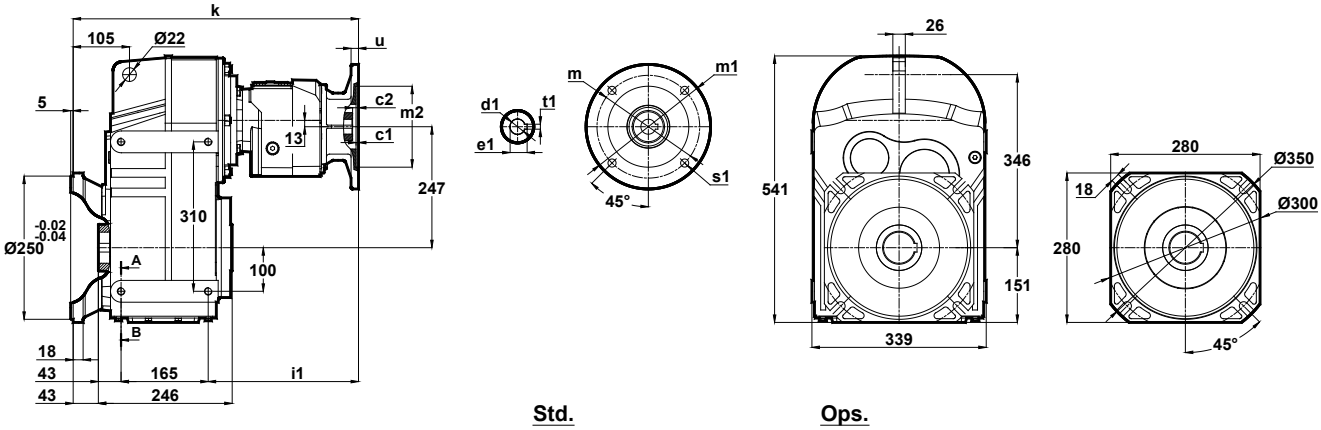


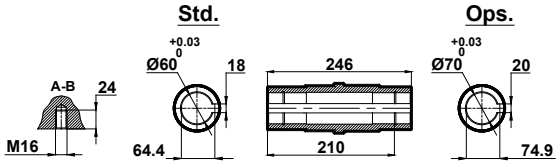


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	294	12	666	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	265	12 10	637	14	5	16.3

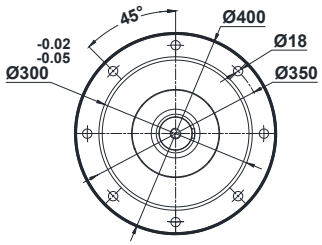
Please see on page 318 for other optional flange dimensions

DN575.03
DN576.03





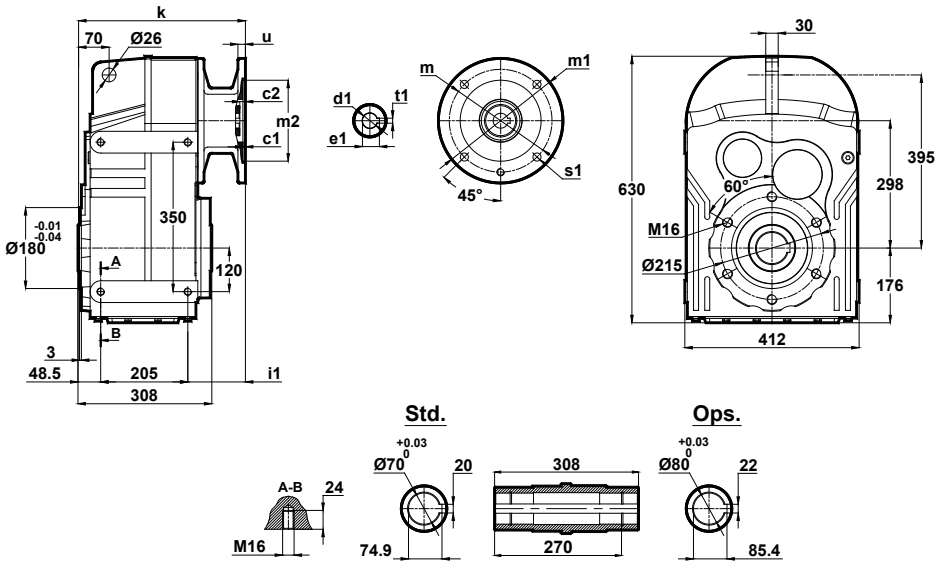
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	294	12	546	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	265	12 10	517	14	5	16.3

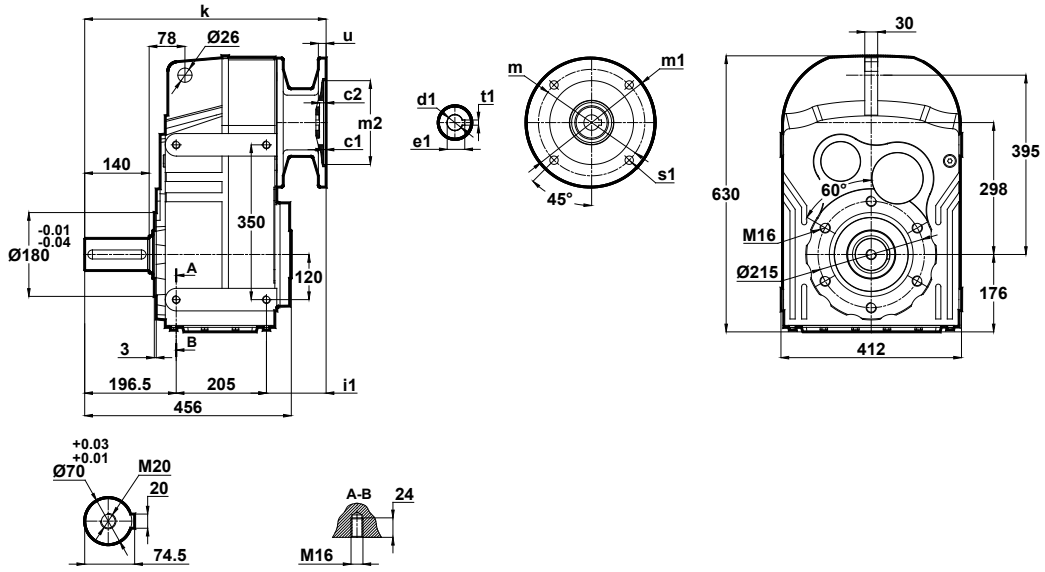
Please see on page 318 for other optional flange dimensions

DN672.00
DN673.00



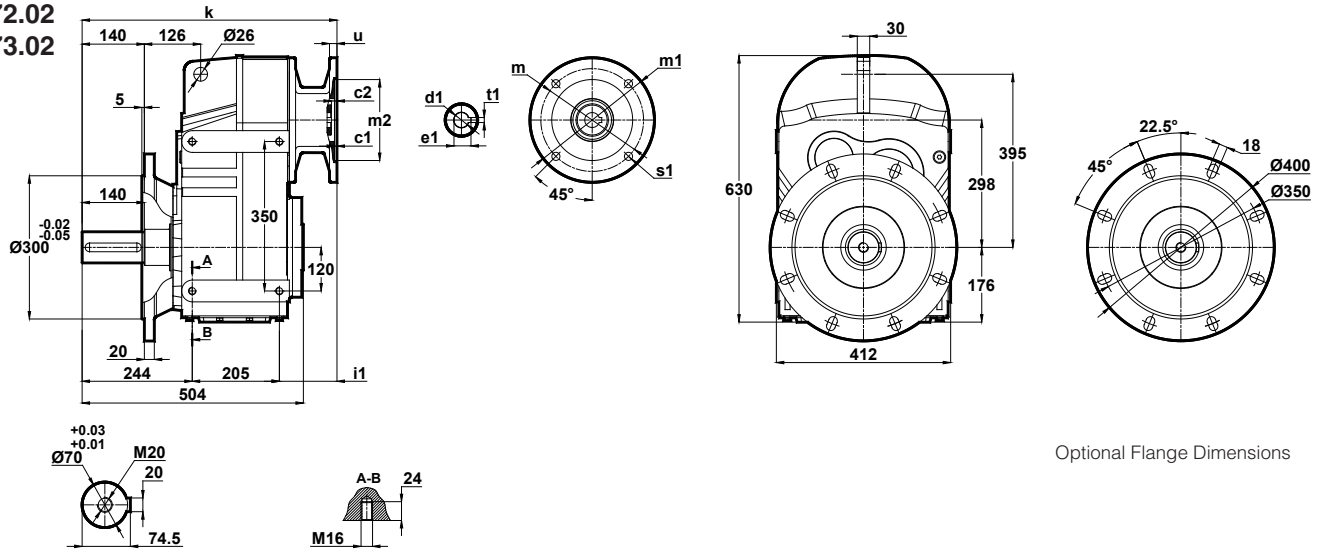
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	94	15	348	28	8	31.3
112/B5	5	20	15	215	250	180	94	15	348	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15 11	265 165	300 200	230 130	115	15	369	38	10	41.3
160/B5	5.5	10	19	300	350	250	191	18	444	42	12	45.3
180/B5	6	10	19	300	350	250	191	18	444	48	14	51.8
200/B5	6	10	19	350	400	300	211	22	464	55	16	59.3

DN672.01
DN673.01

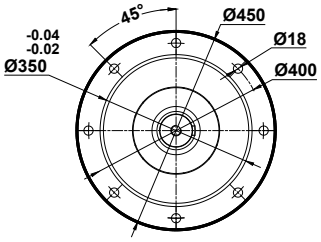


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	94	15	496	28	8	31.3
112/B5	5	20	15	215	250	180	94	15	496	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15 11	265 165	300 200	230 130	115	15	517	38	10	41.3
160/B5	5.5	10	19	300	350	250	191	18	592	42	12	45.3
180/B5	6	10	19	300	350	250	191	18	592	48	14	51.8
200/B5	6	10	19	350	400	300	211	22	612	55	16	59.3

DN672.02
DN673.02



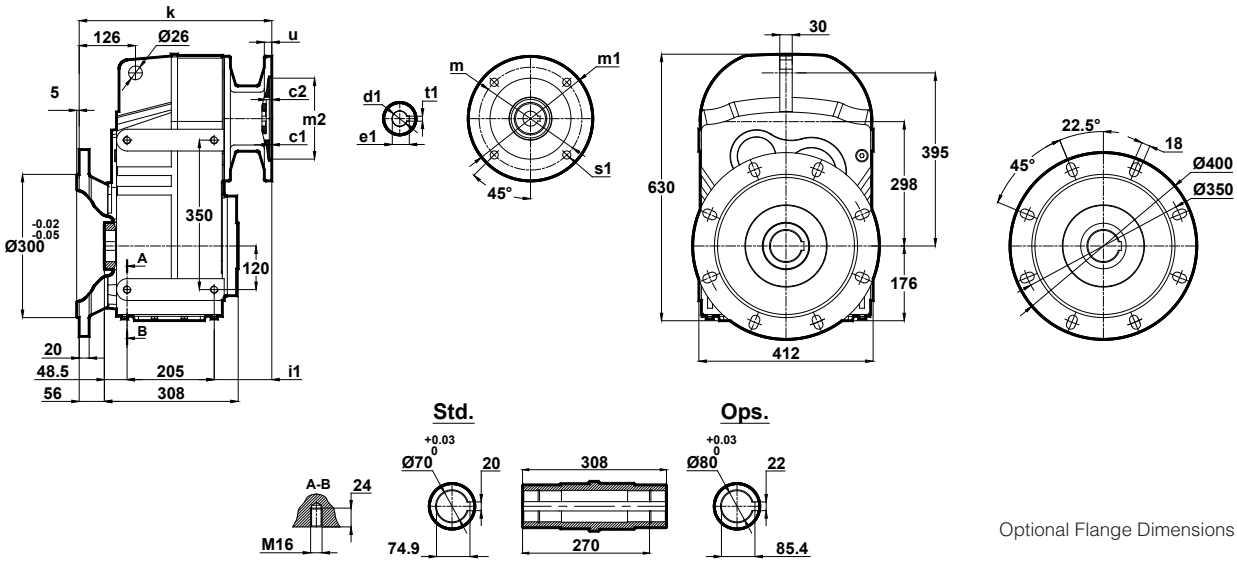
Optional Flange Dimensions



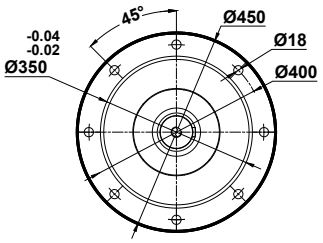
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	94	15	544	28	8	31.3
112/B5	5	20	15	215	250	180	94	15	544	28	8	31.3
132/B5 132/B14	5 4.5	9	15 11	265 165	300 200	230 130	115	15	565	38	10	41.3
160/B5	5.5	10	19	300	350	250	191	18	640	42	12	45.3
180/B5	6	10	19	300	350	250	191	18	640	48	14	51.8
200/B5	6	10	19	350	400	300	211	22	660	55	16	59.3

Please see on page 318 for other optional flange dimensions

DN672.03
DN673.03



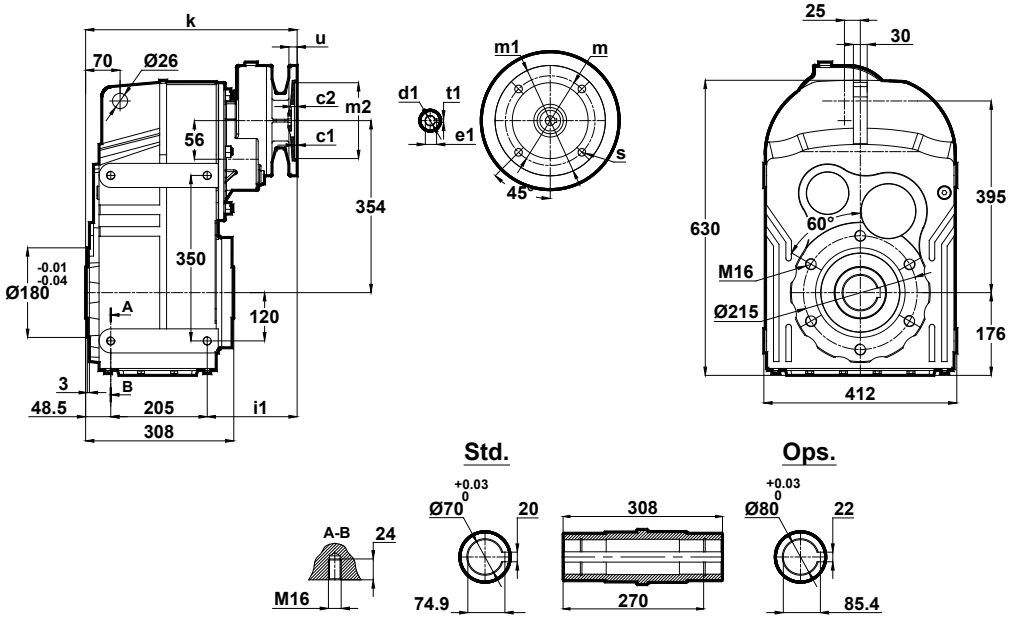
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	94	15	404	28	8	31.3
112/B5	5	20	15	215	250	180	94	15	404	28	8	31.3
132/B5 132/B14	5 4.5	9	15 11	265 165	300 200	230 130	115	15	425	38	10	41.3
160/B5	5.5	10	19	300	350	250	191	18	500	42	12	45.3
180/B5	6	10	19	300	350	250	191	18	500	48	14	51.8
200/B5	6	10	19	350	400	300	211	22	520	55	16	59.3

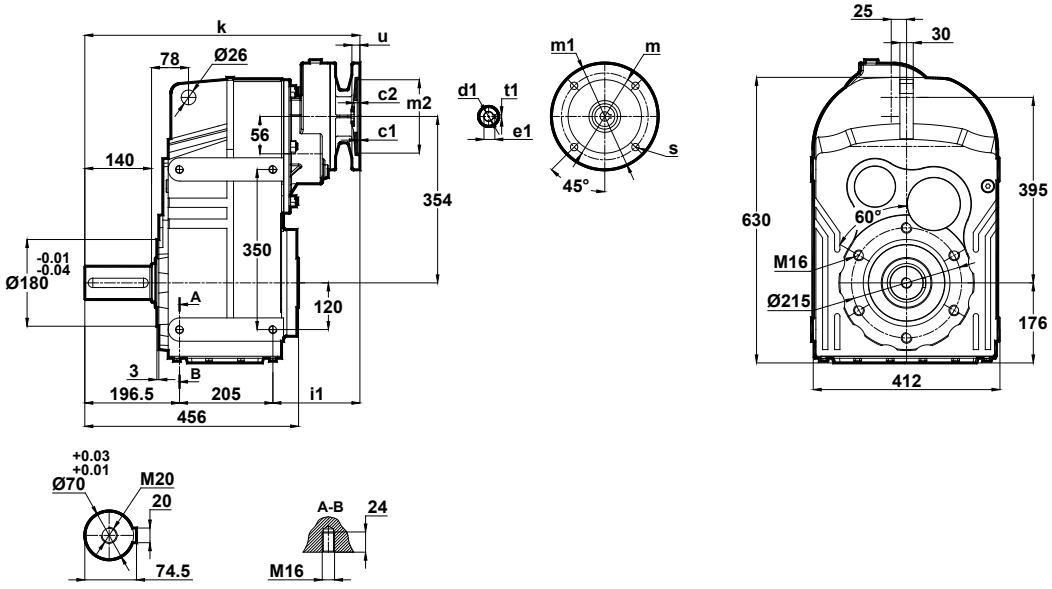
Please see on page 318 for other optional flange dimensions

DN674.00



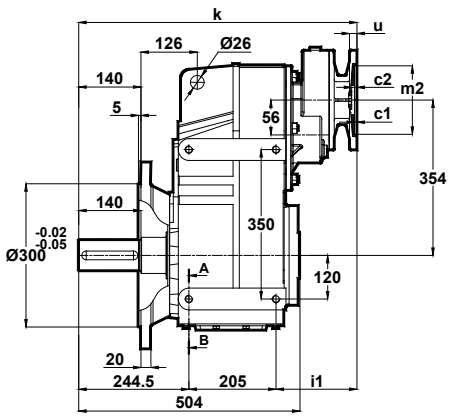
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	174	12	428	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	174	12	428	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	174	12	428	24	8	27.3

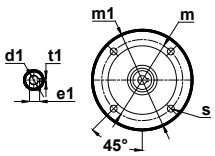
DN674.01

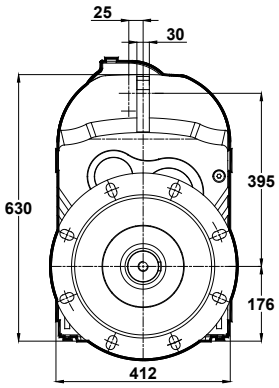


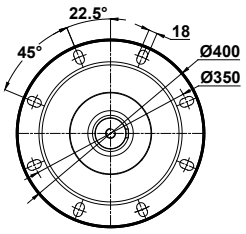
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	174	12	576	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	174	12	576	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	174	12	576	24	8	27.3

DN674.02

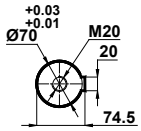


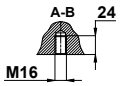


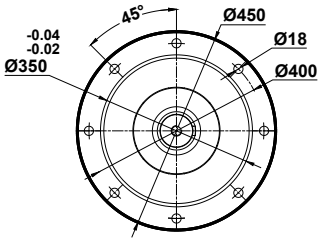




Optional Flange Dimensions



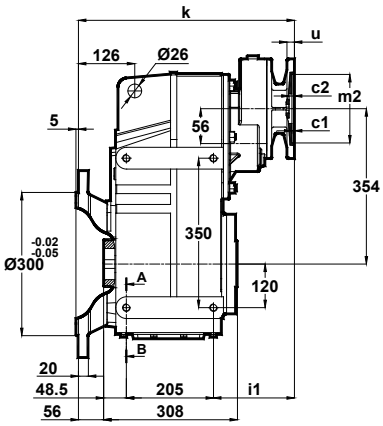


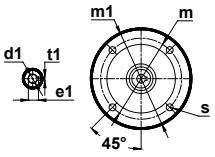


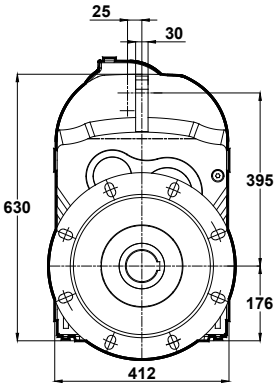
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	174	12	624	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	174	12	624	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	174	12	624	24	8	27.3

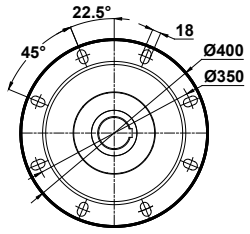
Please see on page 318 for other optional flange dimensions

DN674.03

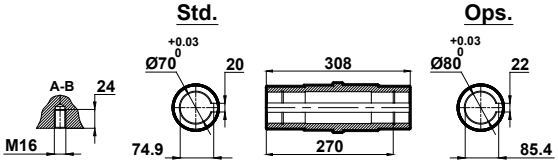




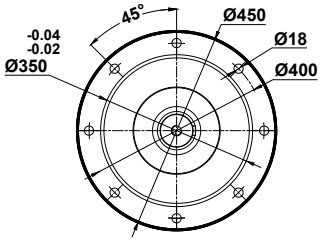




Std. **Ops.**



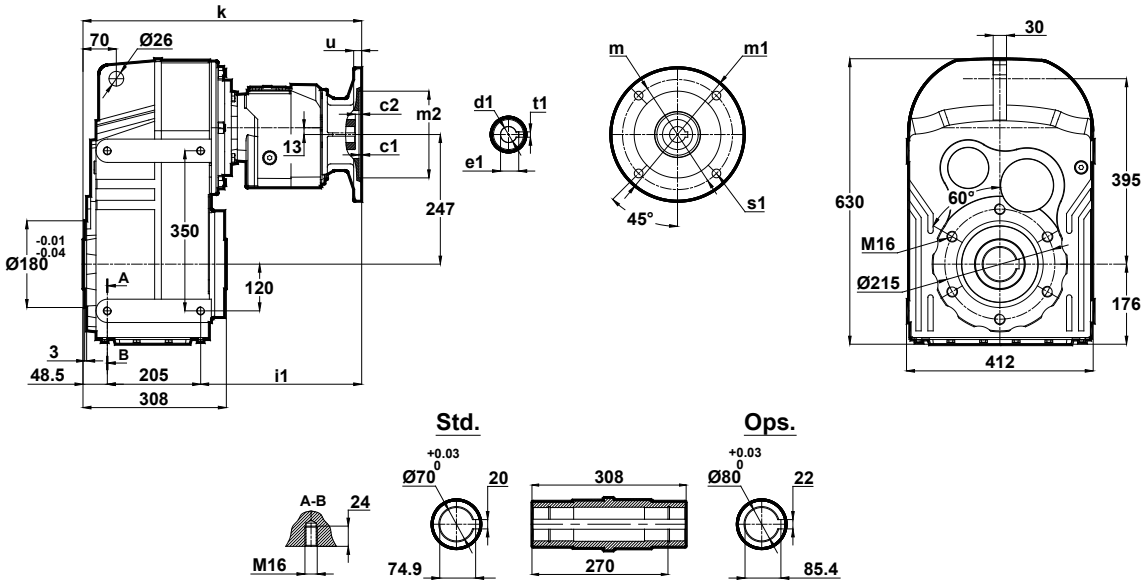
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	174	12	484	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	174	12	484	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	174	12	484	24	8	27.3

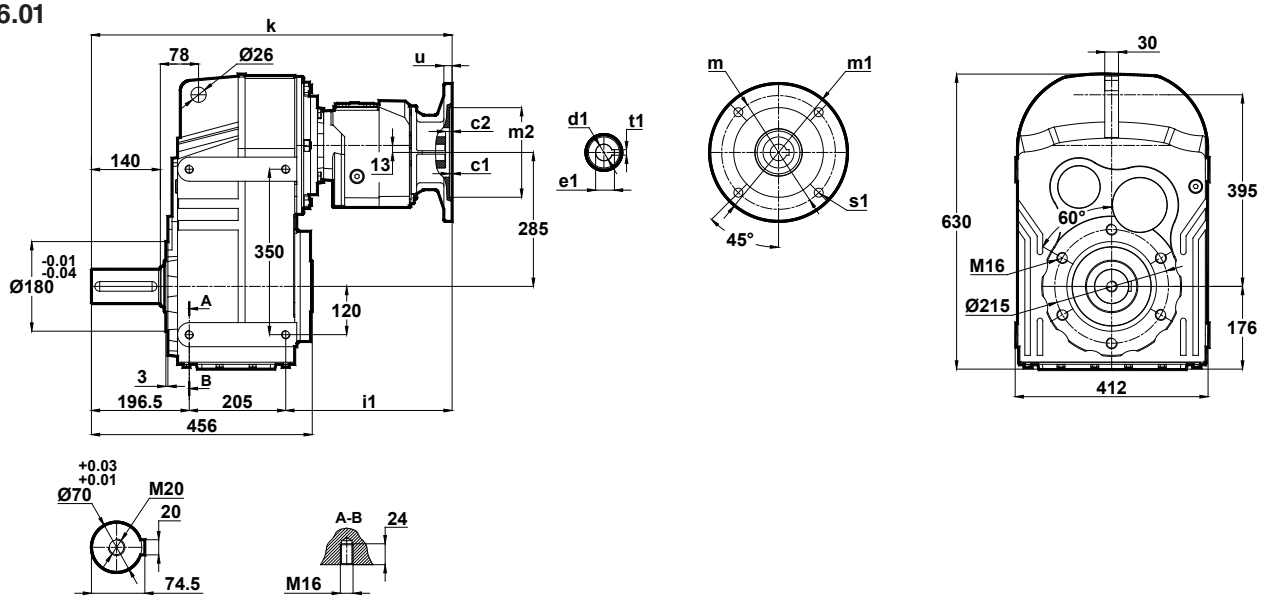
Please see on page 318 for other optional flange dimensions

DN675.00
DN676.00



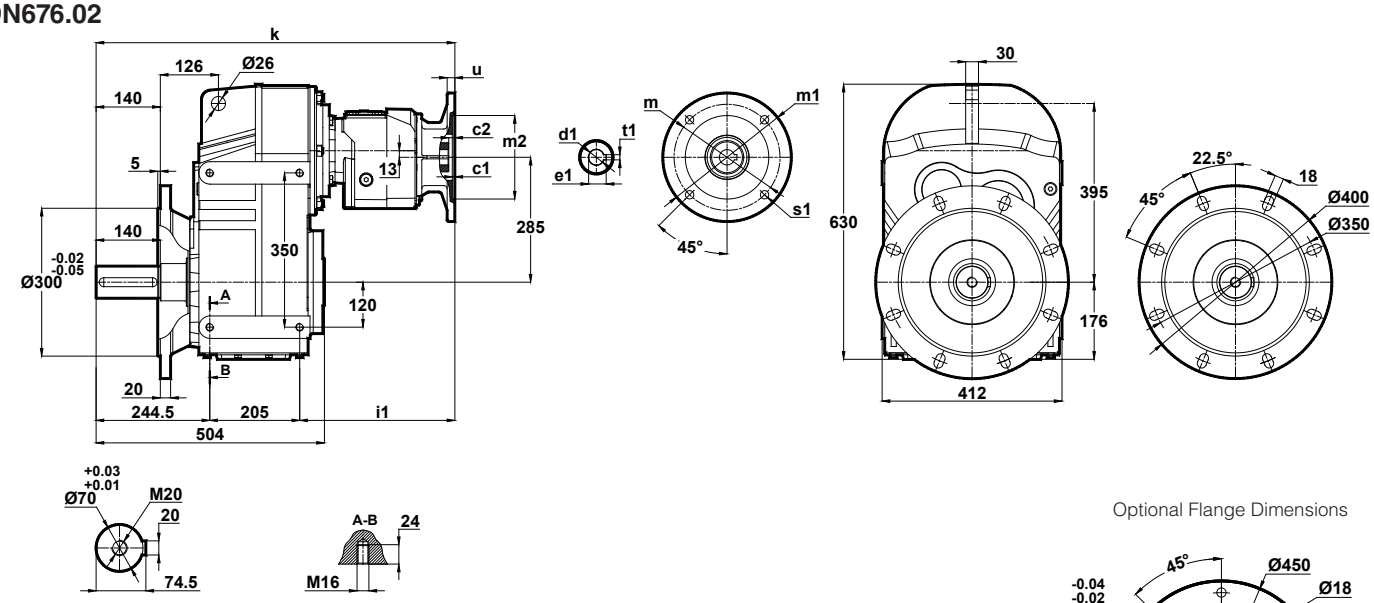
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	304	12	558	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	275	12 10	529	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	304	12	558	19	6	21.8

DN675.01
DN676.01

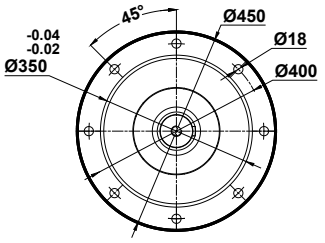


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	304	12	706	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	275	12 10	677	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	304	12	706	19	6	21.8

DN675.02
DN676.02



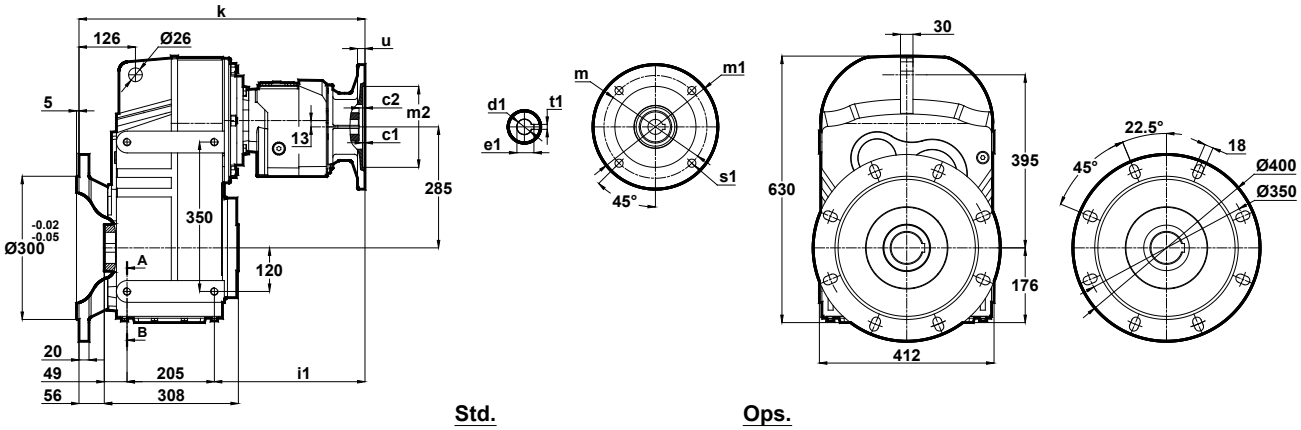
Optional Flange Dimensions



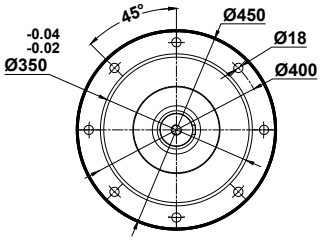
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	304	12	754	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	275	12 10	725	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	304	12	754	19	6	21.8

Please see on page 318 for other optional flange dimensions

DN675.03
DN676.03



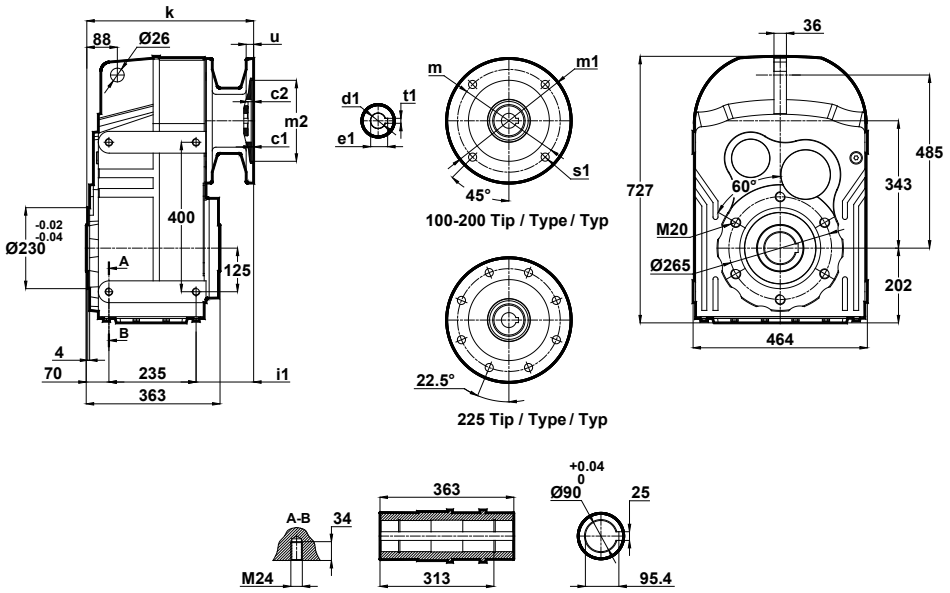
Optional Flange Dimensions



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	304	12	614	11	4	12.8
71/B5 71/B14	4 3	9 8.5	11 7	130 85	160 105	110 70	275	12 10	585	14	5	16.3
80/B5 80/B14	4	5	12 7	165 100	200 120	130 80	304	12	614	19	6	21.8

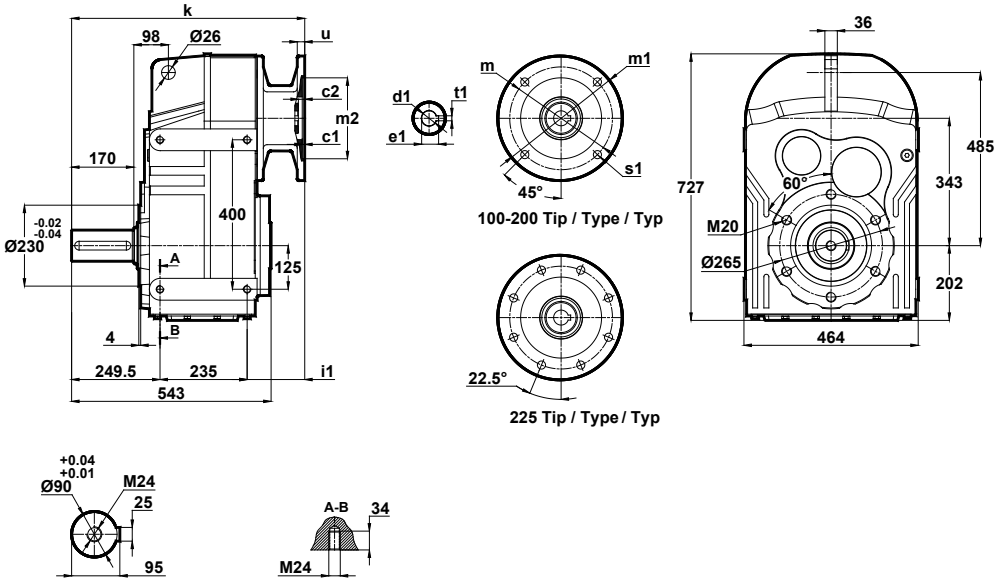
Please see on page 318 for other optional flange dimensions

DN772.00
DN773.00

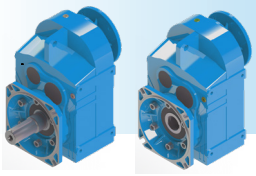


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	85	15	390	28	8	31.3
112/B5	5	15	15	215	250	180	85	15	390	28	8	31.3
132/B5 132/B14	5 4.5	9	15	265 165	300 200	230 130	100	15	405	38	10	41.3
160/B5	5.5	10	19	300	350	250	175	20	480	42	12	45.3
180/B5	6	10	19	300	350	250	175	20	480	48	14	51.8
200/B5	6	10	19	350	400	300	196	22	500	55	16	59.3
225/B5	5.5	10	19	400	450	350	249	24	553	60	18	64.4

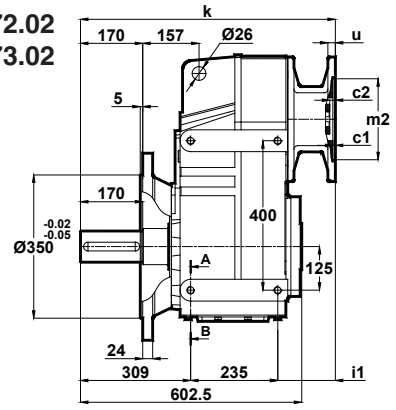
DN772.01
DN773.01

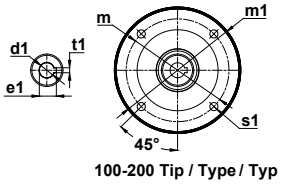


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	85	15	570	28	8	31.3
112/B5	5	15	15	215	250	180	85	15	570	28	8	31.3
132/B5 132/B14	5 4.5	9	15	265 165	300 200	230 130	100	15	585	38	10	41.3
160/B5	5.5	10	19	300	350	250	175	20	660	42	12	45.3
180/B5	6	10	19	300	350	250	175	20	660	48	14	51.8
200/B5	6	10	19	350	400	300	196	22	680	55	16	59.3
225/B5	5.5	10	19	400	450	350	249	24	733	60	18	64.4

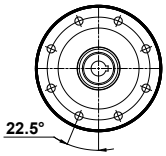


DN772.02
DN773.02

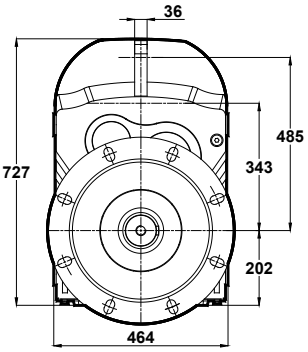


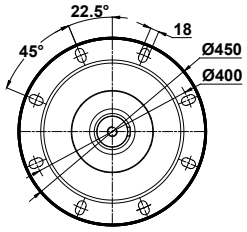


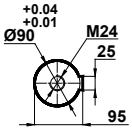
100-200 Tip / Type / Typ

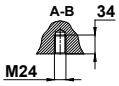


225 Tip / Type / Typ





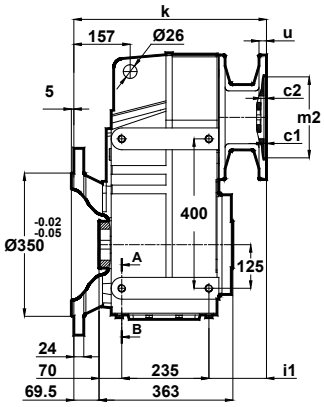


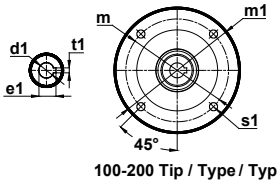


Please see on page 318 for optional flange dimensions

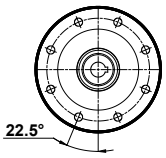
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	85	15	630	28	8	31.3
112/B5	5	15	15	215	250	180	85	15	630	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15	265 165	300 200	230 130	100	15	645	38	10	41.3
160/B5	5.5	10	19	300	350	250	175	20	720	42	12	45.3
180/B5	6	10	19	300	350	250	175	20	720	48	14	51.8
200/B5	6	10	19	350	400	300	196	22	740	55	16	59.3
225/B5	5.5	10	19	400	450	350	249	24	793	60	18	64.4

DN772.03
DN773.03

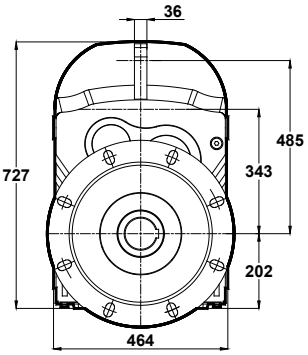


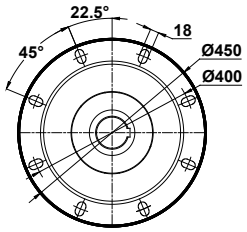


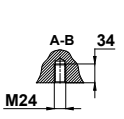
100-200 Tip / Type / Typ

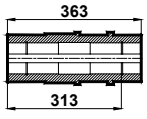


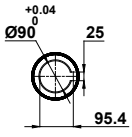
225 Tip / Type / Typ







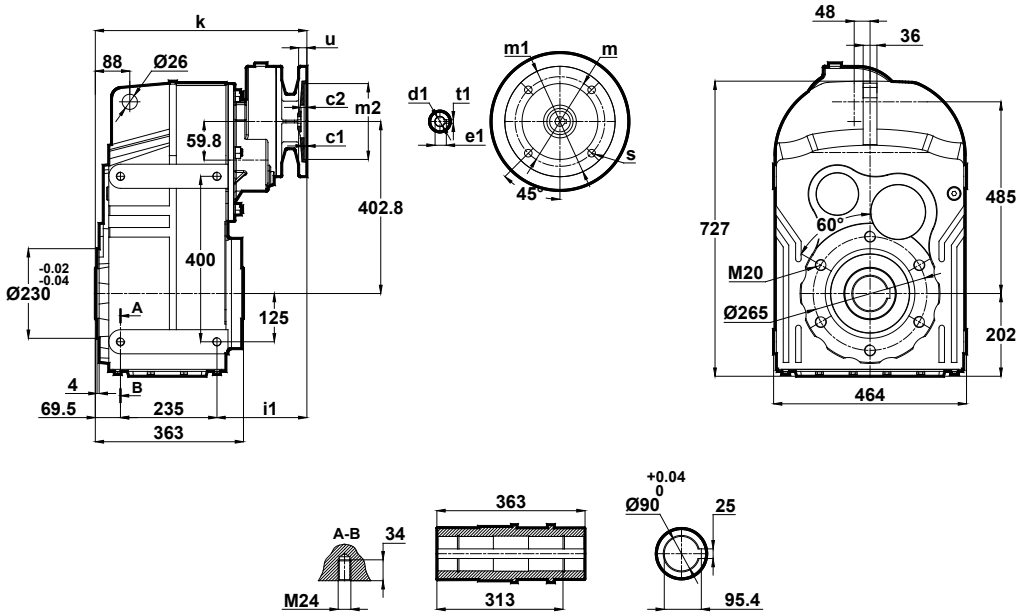




Please see on page 318 for optional flange dimensions

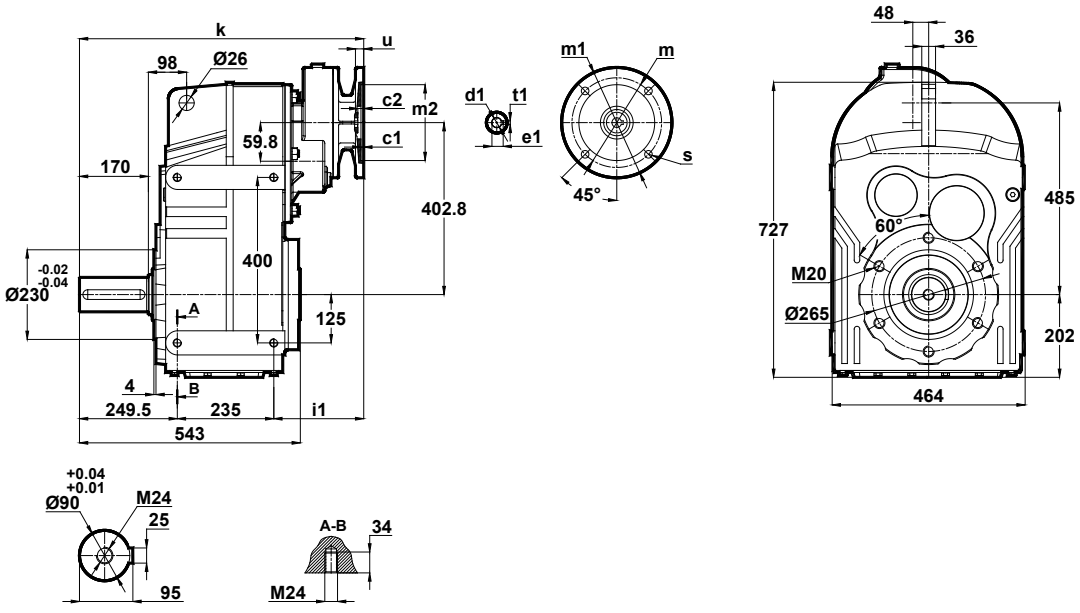
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	85	15	460	28	8	31.3
112/B5	5	15	15	215	250	180	85	15	460	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15	265 165	300 200	230 130	100	15	475	38	10	41.3
160/B5	5.5	10	19	300	350	250	175	20	550	42	12	45.3
180/B5	6	10	19	300	350	250	175	20	550	48	14	51.8
200/B5	6	10	19	350	400	300	196	22	570	55	16	59.3
225/B5	5.5	10	19	400	450	350	249	24	623	60	18	64.4

DN774.00



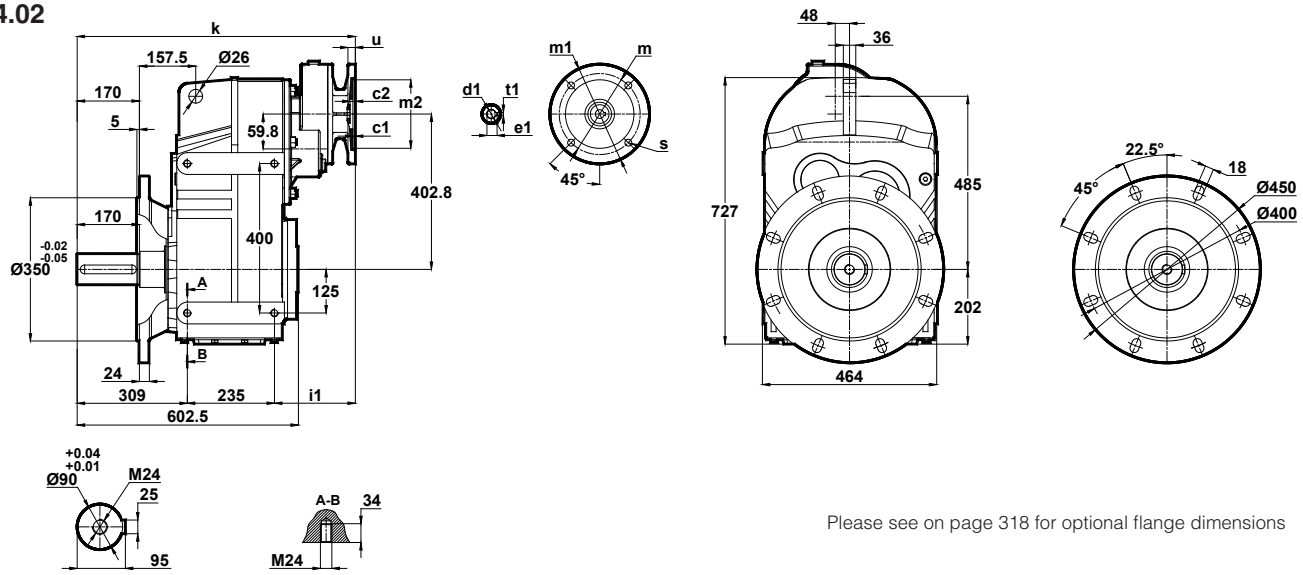
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	175	12	480	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	175	12	480	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	194	15	498	28	8	31.3

DN774.01



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	175	12	660	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	175	12	660	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	194	15	678	28	8	31.3

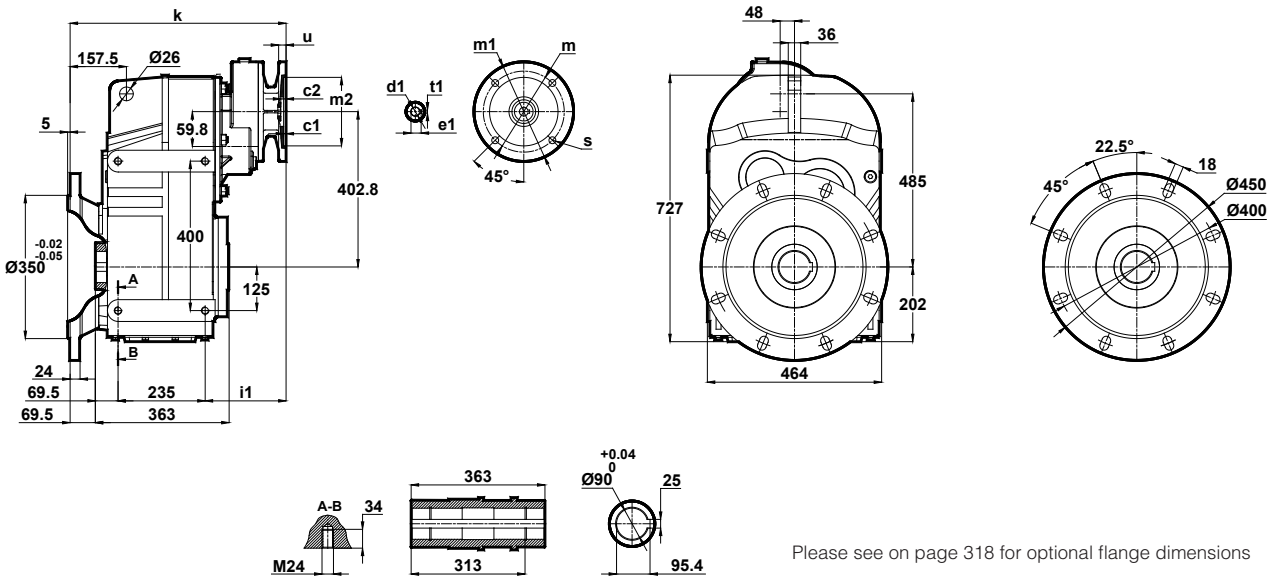
DN774.02



Please see on page 318 for optional flange dimensions

	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	175	12	720	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	175	12	720	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	194	15	738	28	8	31.3

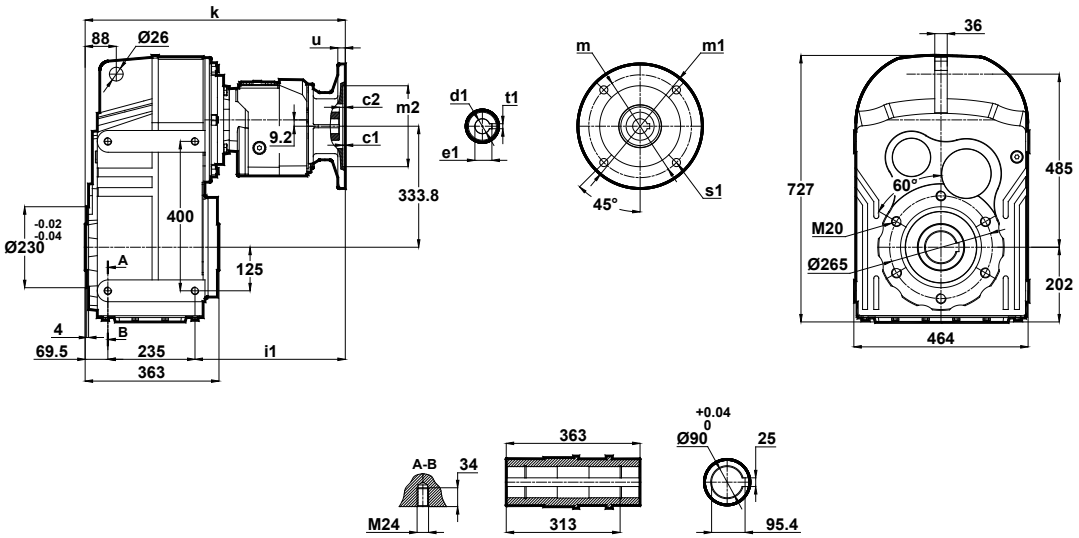
DN774.03



Please see on page 318 for optional flange dimensions

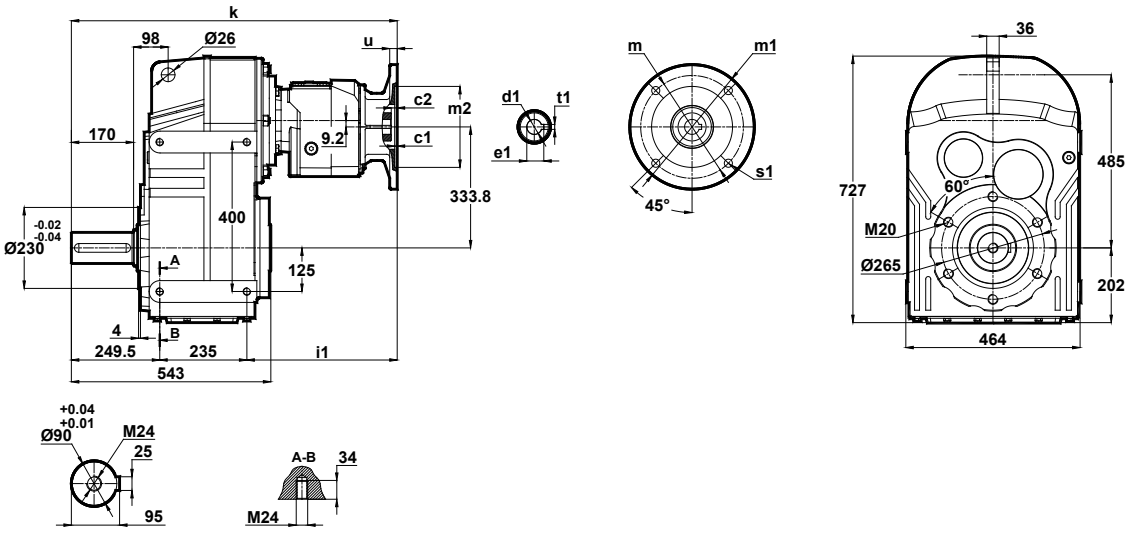
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	175	12	550	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	175	12	550	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	194	15	568	28	8	31.3

DN775.00
DN776.00

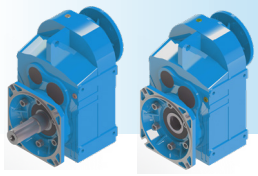


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	326	12	630	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	326	12	630	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	326	12	630	24	8	27.3

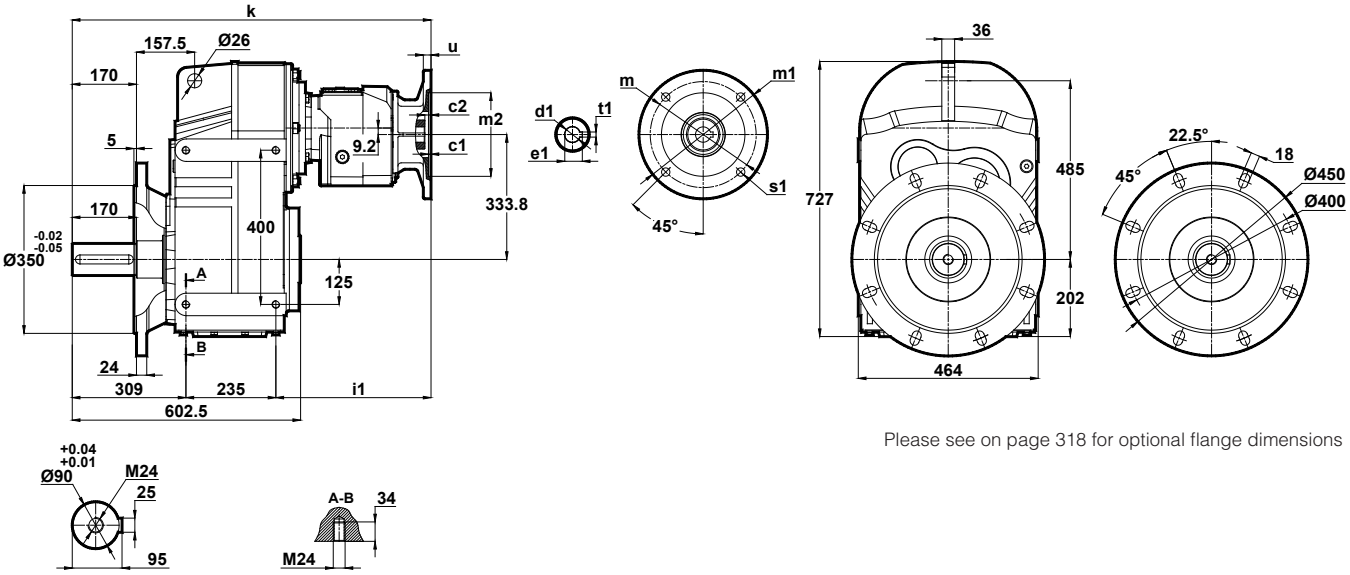
DN775.01
DN776.01



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	326	12	810	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	326	12	810	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	326	12	810	24	8	27.3



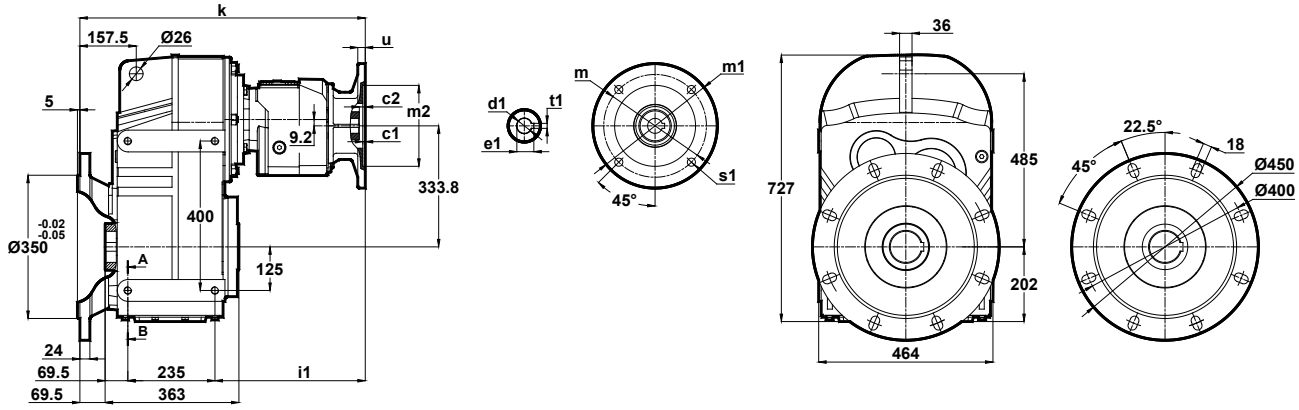
DN775.02
DN776.02

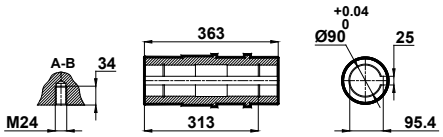


Please see on page 318 for optional flange dimensions

	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	326	12	870	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	326	12	870	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	326	12	870	24	8	27.3

DN775.03
DN776.03

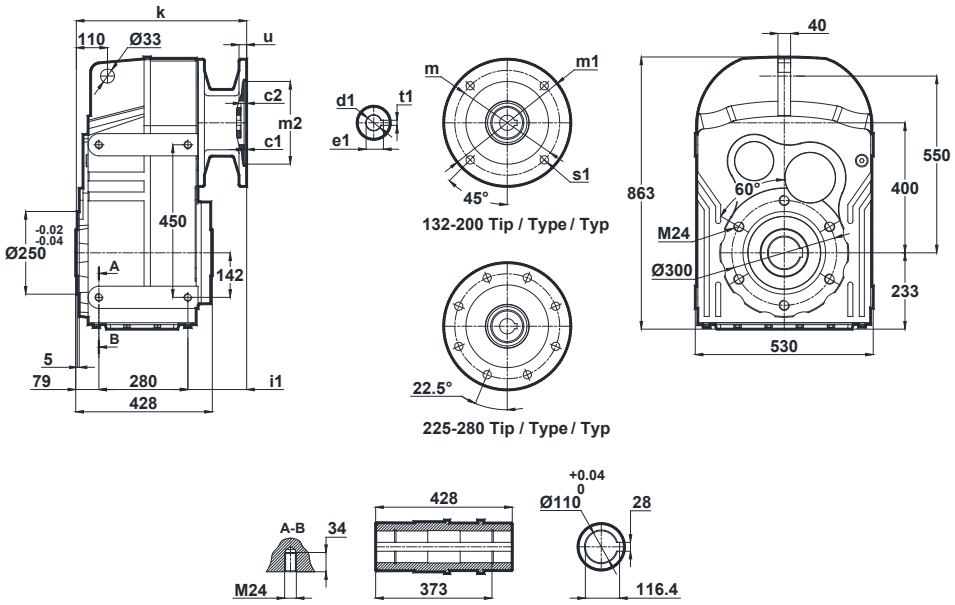




Please see on page 318 for optional flange dimensions

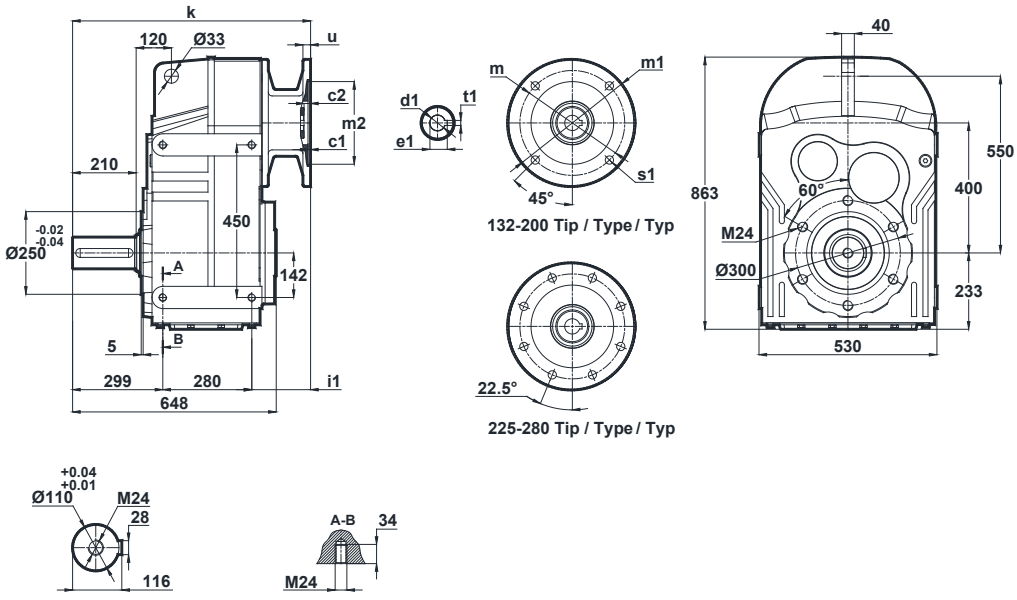
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	326	12	700	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	326	12	700	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 95	326	12	700	24	8	27.3

DN872.00
DN873.00

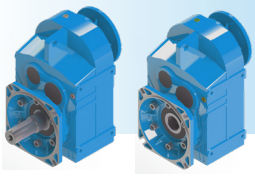


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
132/B5	5	14	15	265	300	230	98	15	457	38	10	41.3
160/B5	5.5	10	19	300	350	250	243	20	602	42	12	45.3
180/B5	6	10	19	300	350	250	243	20	602	48	14	51.8
200/B5	6	10	19	350	400	300	243	22	602	55	16	59.3
225/B5	5.5	10	19	400	450	350	243	24	602	60	18	64.4
250/B5	6	10	19	500	550	450	243	24	602	65	18	69.4
280/B5	6	10	19	500	550	450	243	24	602	75	20	79.4

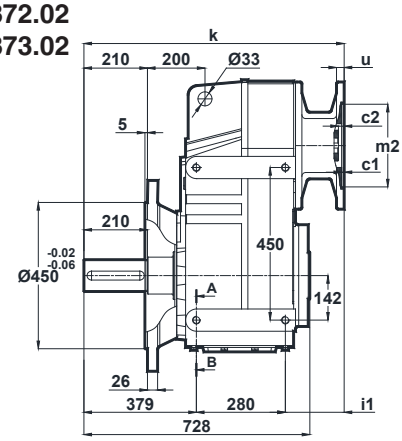
DN872.01
DN873.01

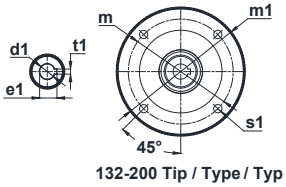


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
132/B5	5	14	15	265	300	230	98	15	677	38	10	41.3
160/B5	5.5	10	19	300	350	250	243	20	822	42	12	45.3
180/B5	6	10	19	300	350	250	243	20	822	48	14	51.8
200/B5	6	10	19	350	400	300	243	22	822	55	16	59.3
225/B5	5.5	10	19	400	450	350	243	24	822	60	18	64.4
250/B5	6	10	19	500	550	450	243	24	822	65	18	69.4
280/B5	6	10	19	500	550	450	243	24	822	75	20	79.4

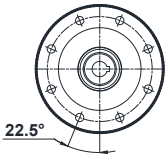


DN872.02
DN873.02

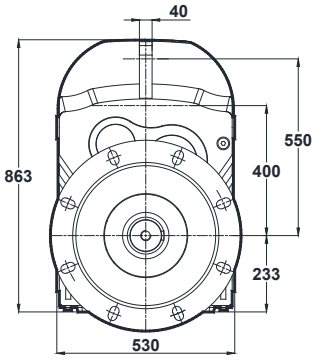


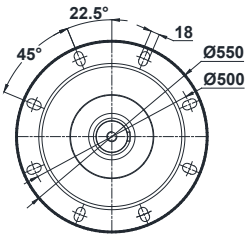


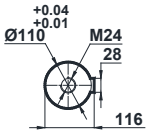
132-200 Tip / Type / Typ

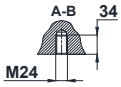


225-280 Tip / Type / Typ





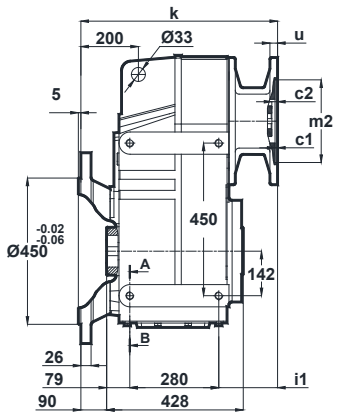


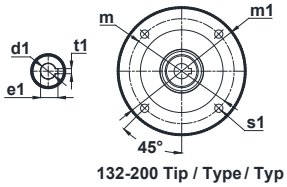


Please see on page 318 for optional flange dimensions

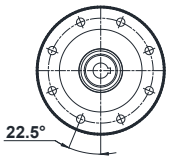
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
132/B5	5	14	15	265	300	230	98	15	757	15	10	41.3
160/B5	5.5	10	19	300	350	250	243	20	902	42	12	45.3
180/B5	6	10	19	300	350	250	243	20	902	48	14	51.8
200/B5	6	10	19	350	400	300	243	22	902	55	16	59.3
225/B5	5.5	10	19	400	450	350	243	24	902	60	18	64.4
250/B5	6	10	19	500	550	450	243	24	902	65	18	69.4
280/B5	6	10	19	500	550	450	243	24	902	75	20	79.4

DN872.03
DN873.03

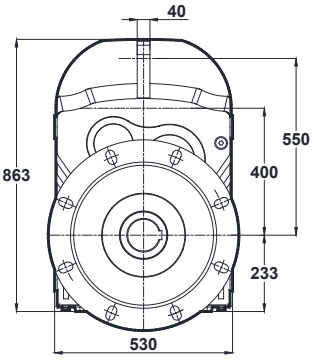


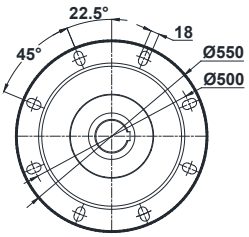


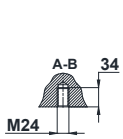
132-200 Tip / Type / Typ

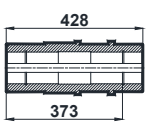


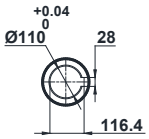
225-280 Tip / Type / Typ







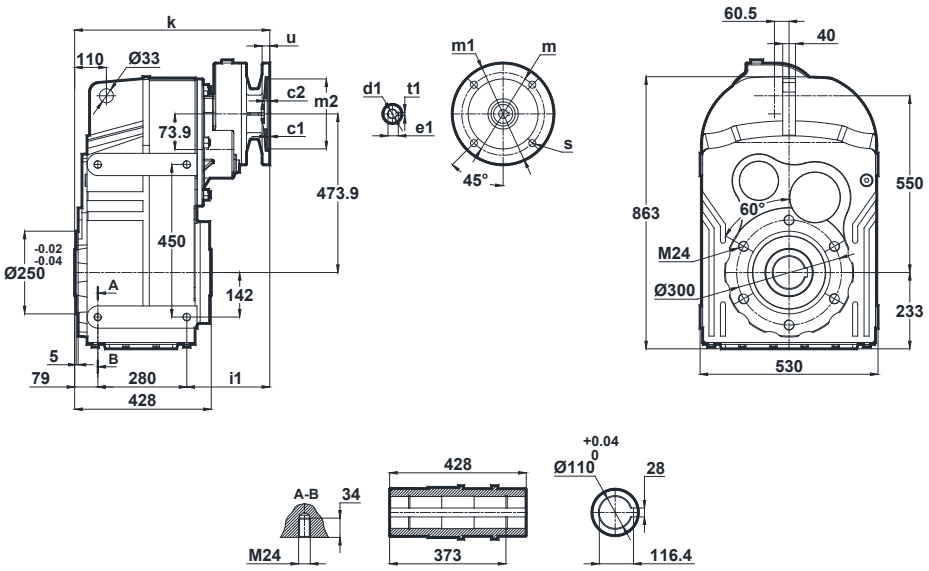




Please see on page 318 for optional flange dimensions

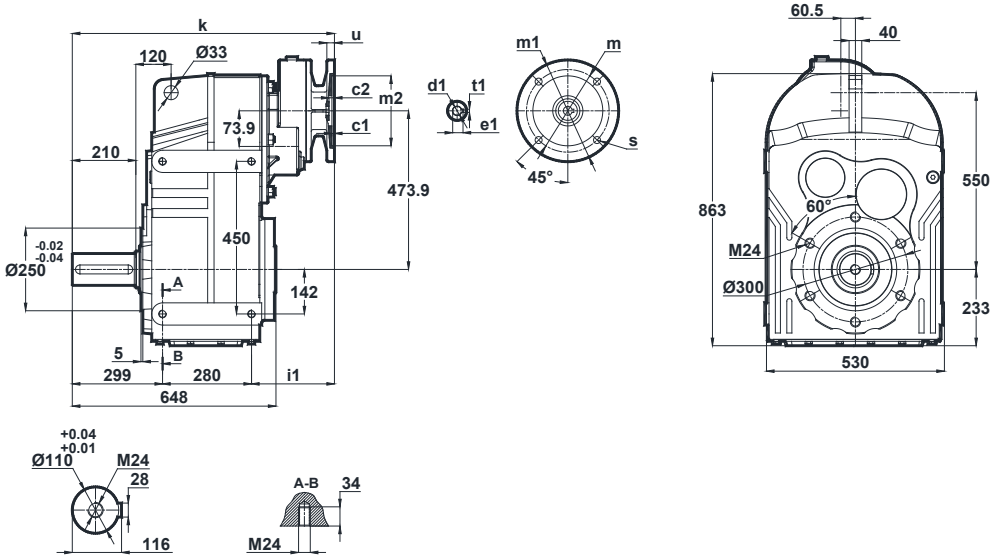
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
132/B5	5	14	15	265	300	230	98	15	547	38	10	41.3
160/B5	5.5	10	19	300	350	250	243	20	692	42	12	45.3
180/B5	6	10	19	300	350	250	243	20	692	48	14	51.8
200/B5	6	10	19	350	400	300	243	22	692	55	16	59.3
225/B5	5.5	10	19	400	450	350	243	24	692	60	18	64.4
250/B5	6	10	19	500	550	450	243	24	692	65	18	69.4
280/B5	6	10	19	500	550	450	243	24	692	75	20	79.4

DN874.00



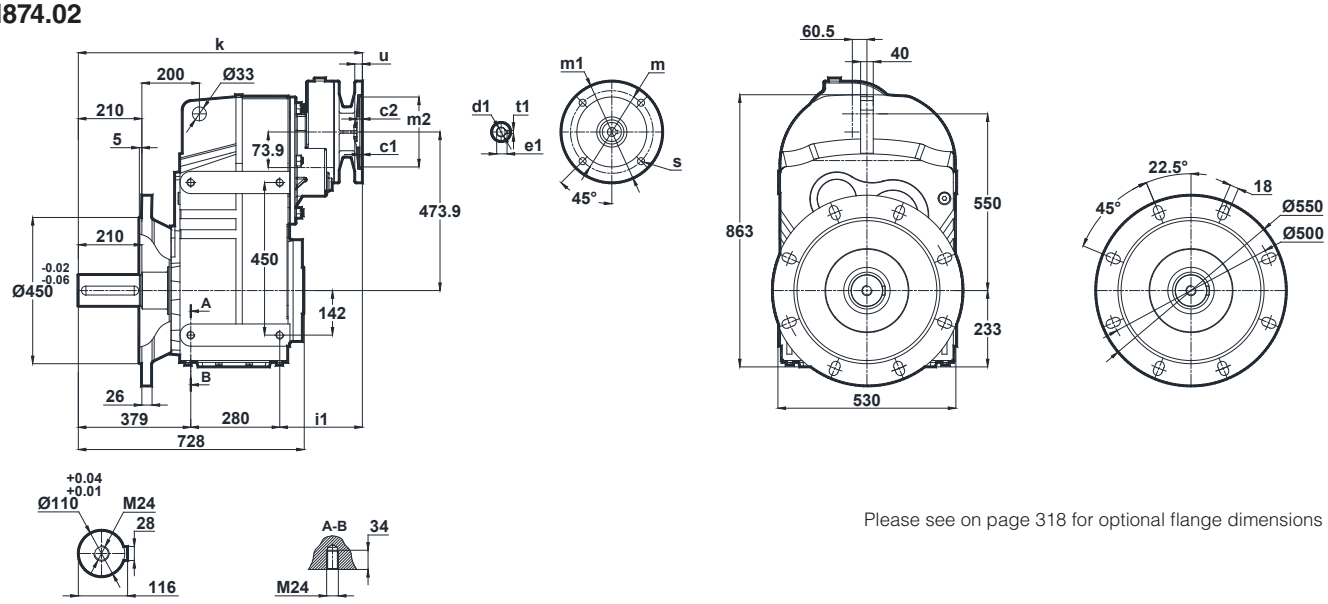
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	215	15	575	28	8	31.3
112/B5	5	20	15	215	250	180	215	15	575	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15 11	265 165	300 200	230 130	236	15	596	38	10	41.3

DN874.01



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	215	15	795	28	8	31.3
112/B5	5	20	15	215	250	180	215	15	795	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15 11	265 165	300 200	230 130	236	15	816	38	10	41.3

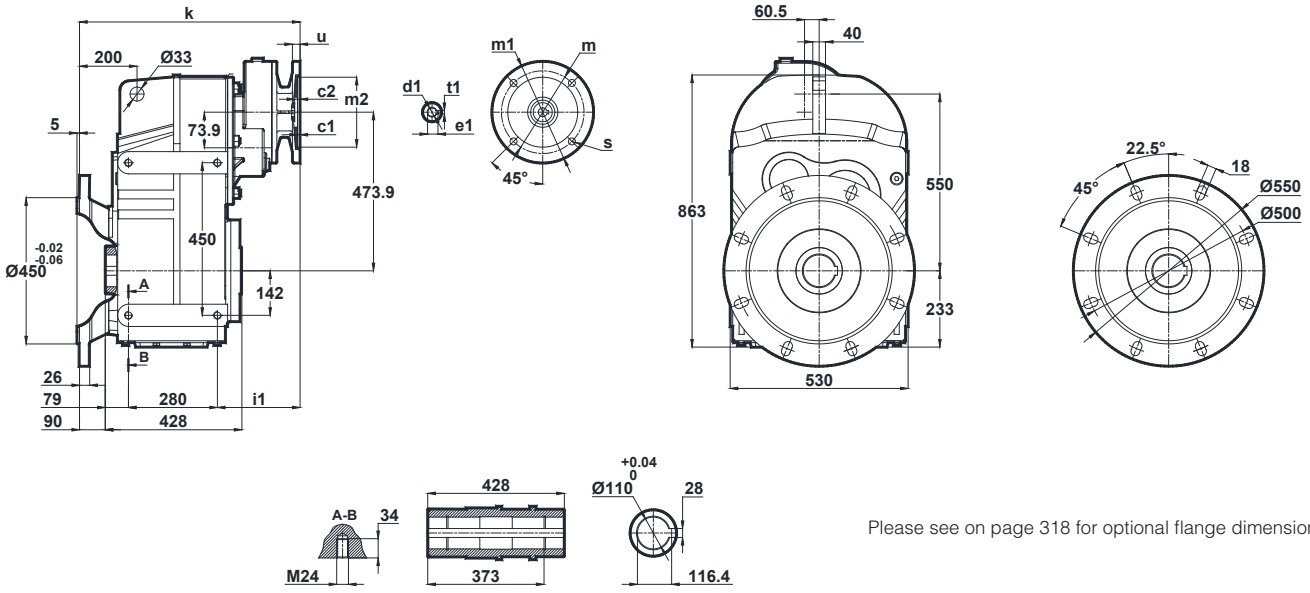
DN874.02



Please see on page 318 for optional flange dimensions

	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	215	15	875	28	8	31.3
112/B5	5	20	15	215	250	180	215	15	875	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15 11	265 165	300 200	230 130	236	15	896	38	10	41.3

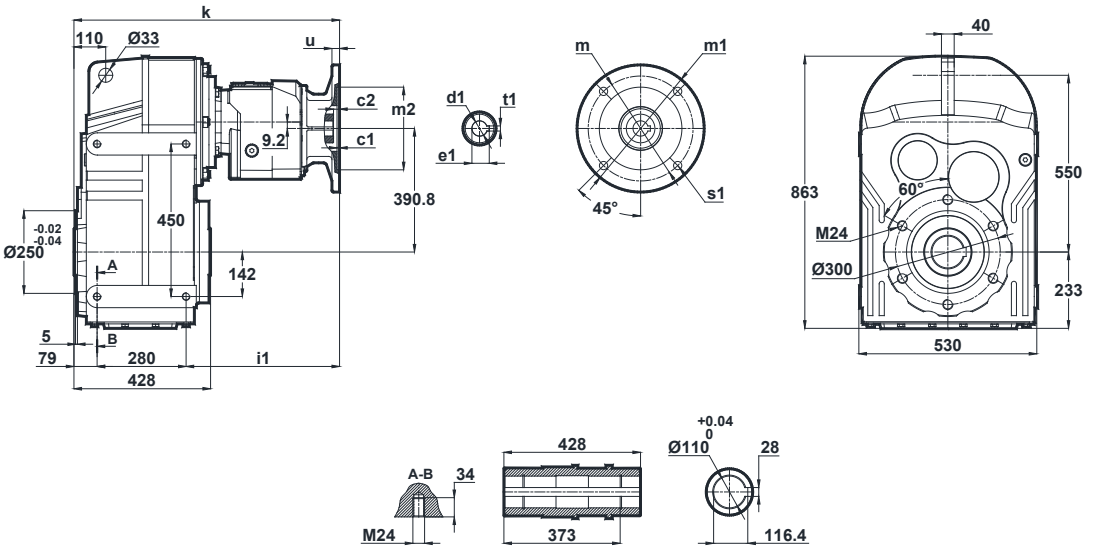
DN874.03



Please see on page 318 for optional flange dimensions

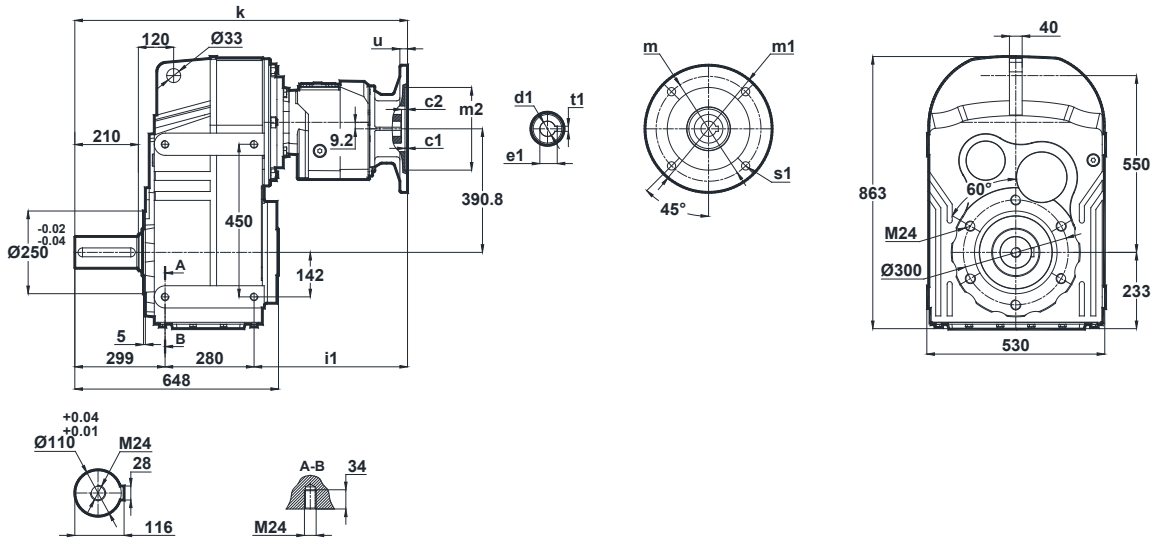
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	20	15	215	250	180	215	15	665	28	8	31.3
112/B5	5	20	15	215	250	180	215	15	665	28	8	31.3
132/B5 **132/B14**	5 4.5	9	15 11	265 165	300 200	230 130	236	15	686	38	10	41.3

DN875.00
DN876.00



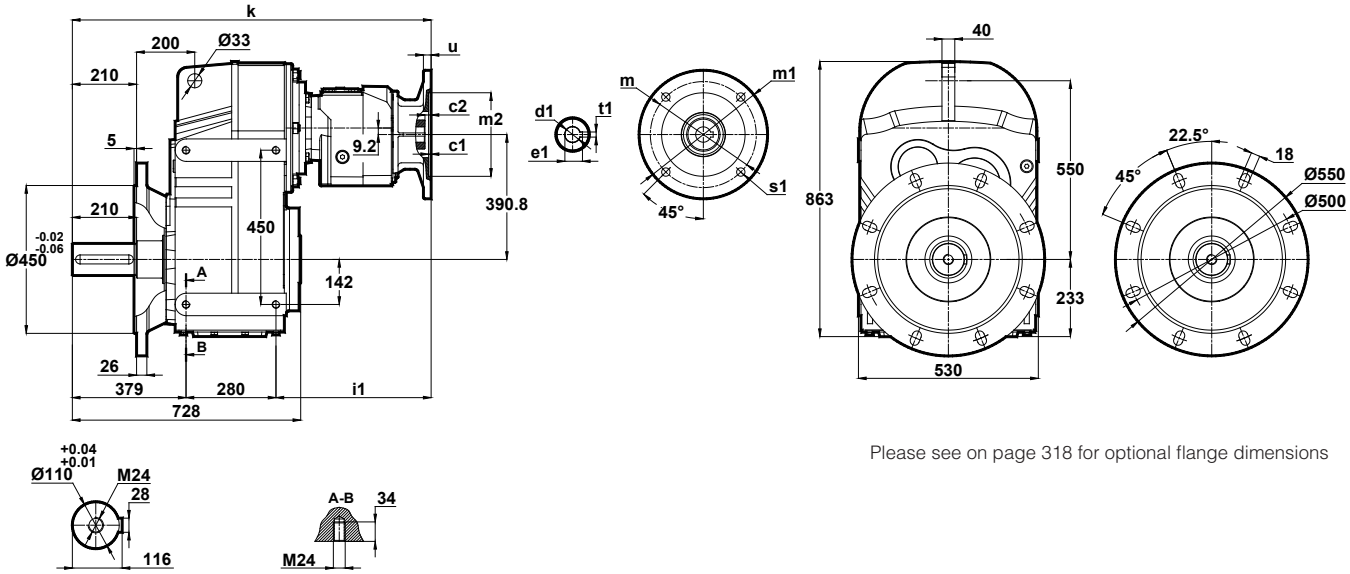
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	333	12	693	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	333	12	693	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	333	12	693	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	350	15	710	28	8	31.3

DN875.01
DN876.01



	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	333	12	913	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	333	12	913	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	333	12	913	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	350	15	930	28	8	31.3

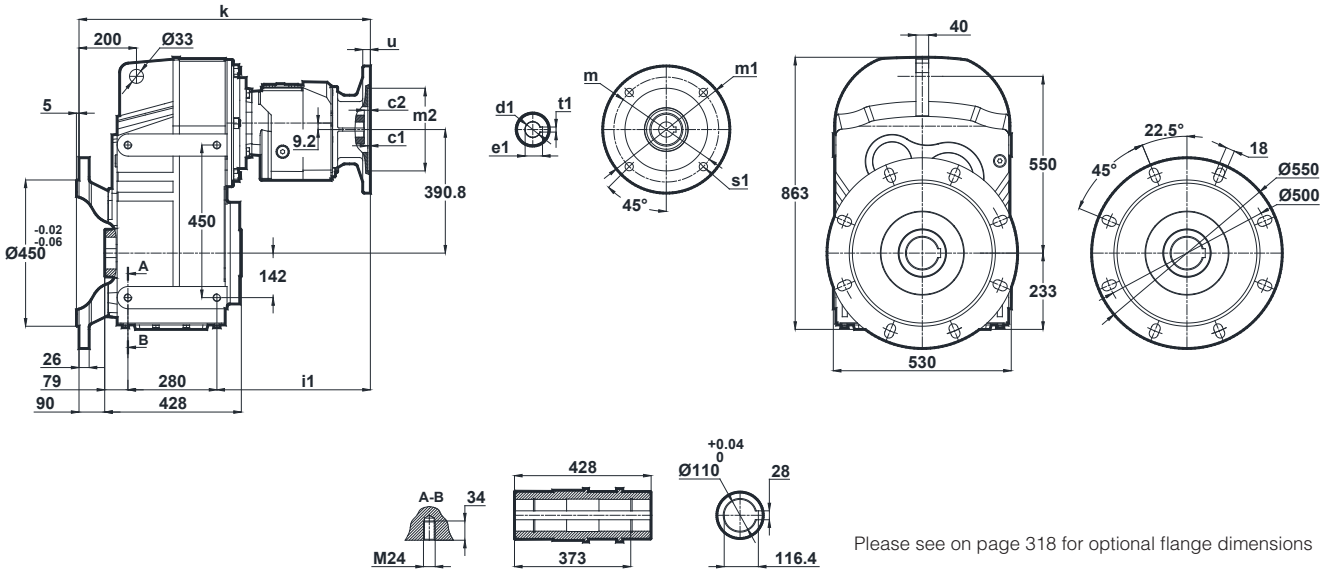
DN875.02
DN876.02



Please see on page 318 for optional flange dimensions

	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	333	12	993	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	333	12	993	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	333	12	993	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	350	15	1010	28	8	31.3

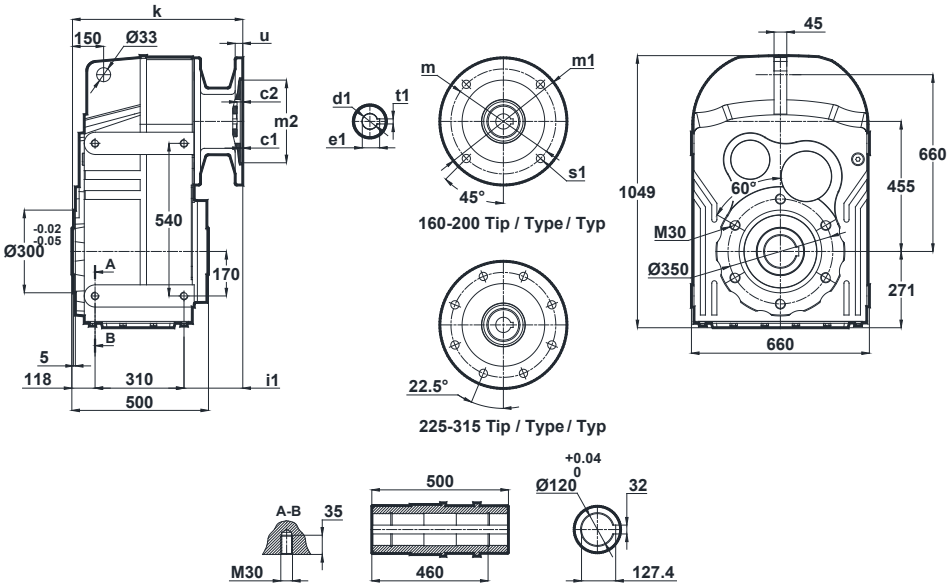
DN875.03
DN876.03



Please see on page 318 for optional flange dimensions

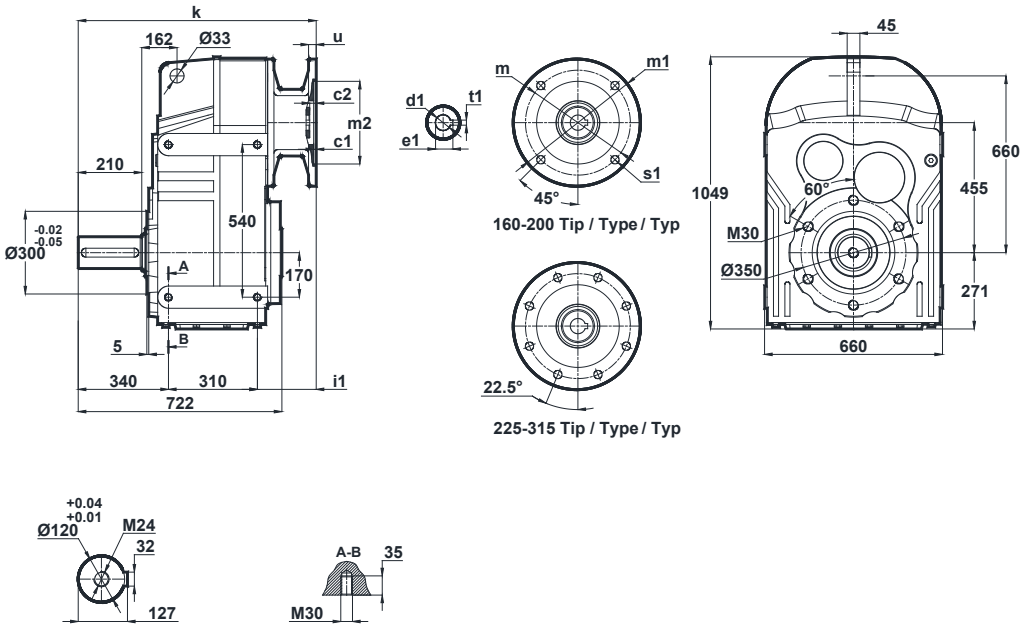
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	333	12	783	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	333	12	783	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	333	12	783	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	350	15	800	28	8	31.3

DN972.00
DN973.00

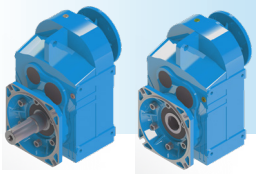


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	163	20	591	42	12	45.3
180/B5	5.5	10	19	300	350	250	163	20	591	48	14	51.8
200/B5	5.5	10	19	350	400	300	187	22	615	55	16	59.3
225/B5	5.5	10	19	400	450	350	229	24	657	60	18	64.4
250/B5	5.5	10	19	500	550	450	281	24	709	65	18	69.4
280/B5	5.5	10	19	500	550	450	281	24	709	75	20	79.4
315/B5	6.5	15	24	660	600	550	331	24	759	85	22	90.4

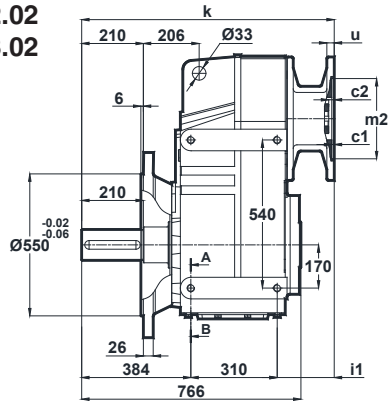
DN972.01
DN973.01

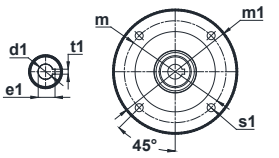


	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	163	20	813	42	12	45.3
180/B5	5.5	10	19	300	350	250	163	20	813	48	14	51.8
200/B5	5.5	10	19	350	400	300	187	22	837	55	16	59.3
225/B5	5.5	10	19	400	450	350	229	24	879	60	18	64.4
250/B5	5.5	10	19	500	550	450	281	24	931	65	18	69.4
280/B5	5.5	10	19	500	550	450	281	24	931	75	20	79.4
315/B5	6.5	15	24	660	600	550	331	24	981	85	22	90.4

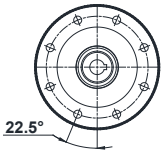


DN972.02
DN973.02

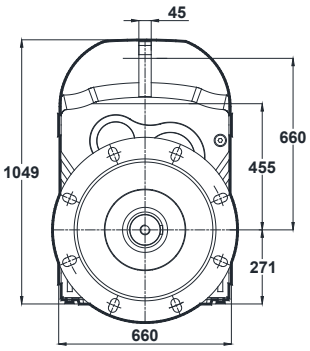


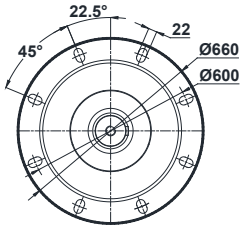


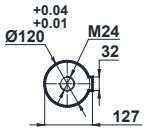
160-200 Tip / Type / Typ

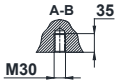


225-280 Tip / Type / Typ



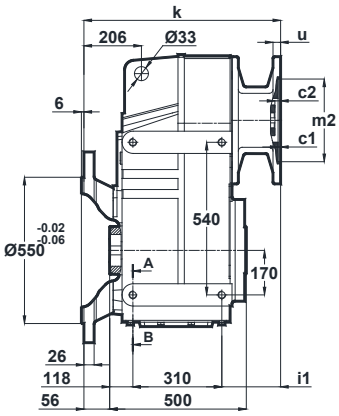


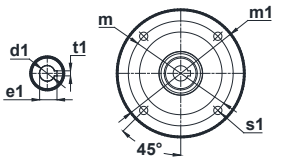




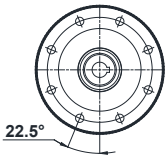
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	163	20	857	42	12	45.3
180/B5	5.5	10	19	300	350	250	163	20	857	48	14	51.8
200/B5	5.5	10	19	350	400	300	187	22	881	55	16	59.3
225/B5	5.5	10	19	400	450	350	229	24	923	60	18	64.4
250/B5	5.5	10	19	500	550	450	281	24	975	65	18	69.4
280/B5	5.5	10	19	500	550	450	281	24	975	75	20	79.4
315/B5	6.5	15	24	660	600	550	331	24	1025	85	22	90.4

DN972.03
DN973.03

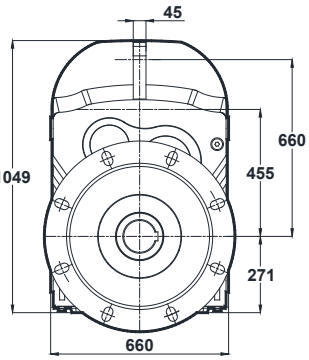


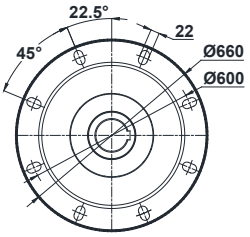


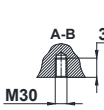
160-200 Tip / Type / Typ

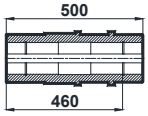


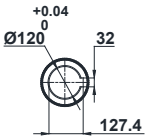
225-315 Tip / Type / Typ





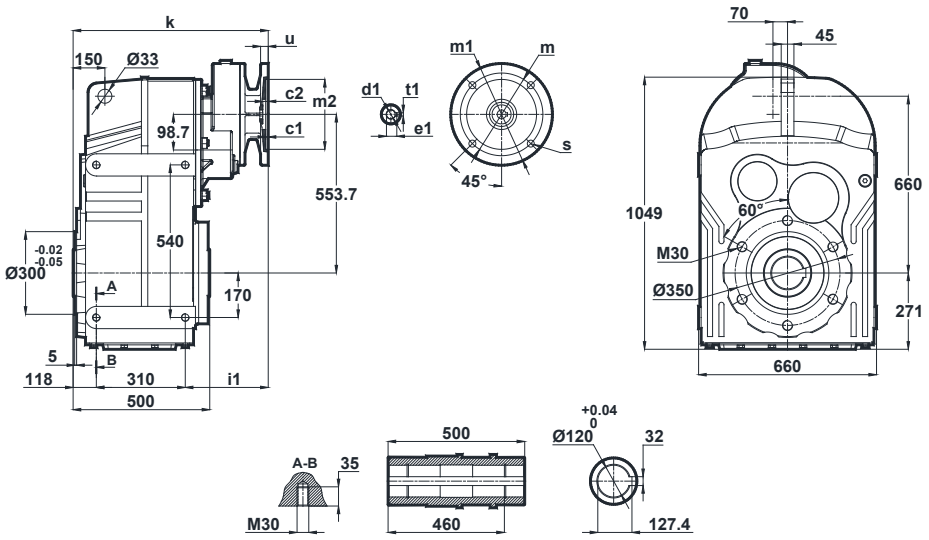






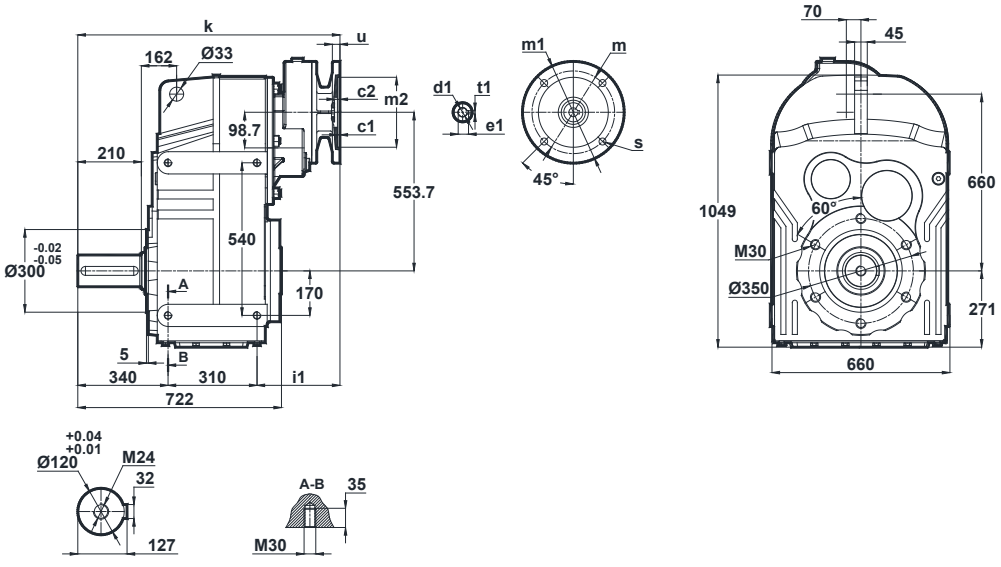
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	163	20	647	42	12	45.3
180/B5	5.5	10	19	300	350	250	163	20	647	48	14	51.8
200/B5	5.5	10	19	350	400	300	187	22	671	55	16	59.3
225/B5	5.5	10	19	400	450	350	229	24	713	60	18	64.4
250/B5	5.5	10	19	500	550	450	281	24	765	65	18	69.4
280/B5	5.5	10	19	500	550	450	281	24	765	75	20	79.4
315/B5	6.5	15	24	660	600	550	331	24	815	85	22	90.4

DN974.00



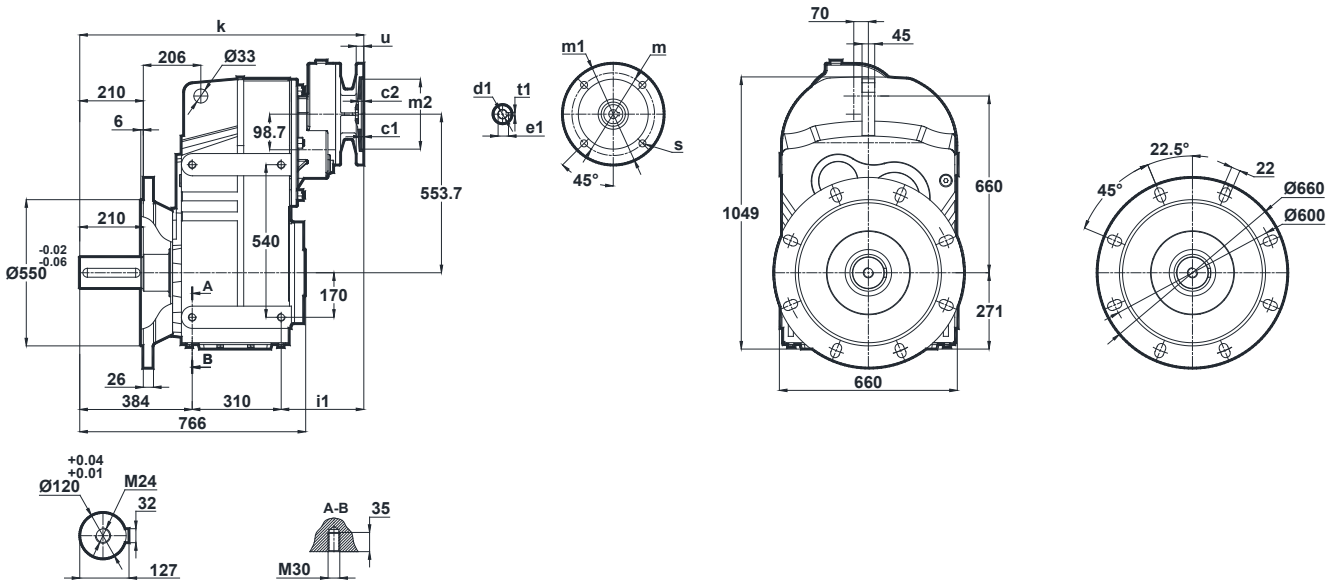
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	252	15	571	28	8	31.3
112/B5	5	15	15	215	250	180	252	15	680	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	267	15	695	38	10	41.3

DN974.01



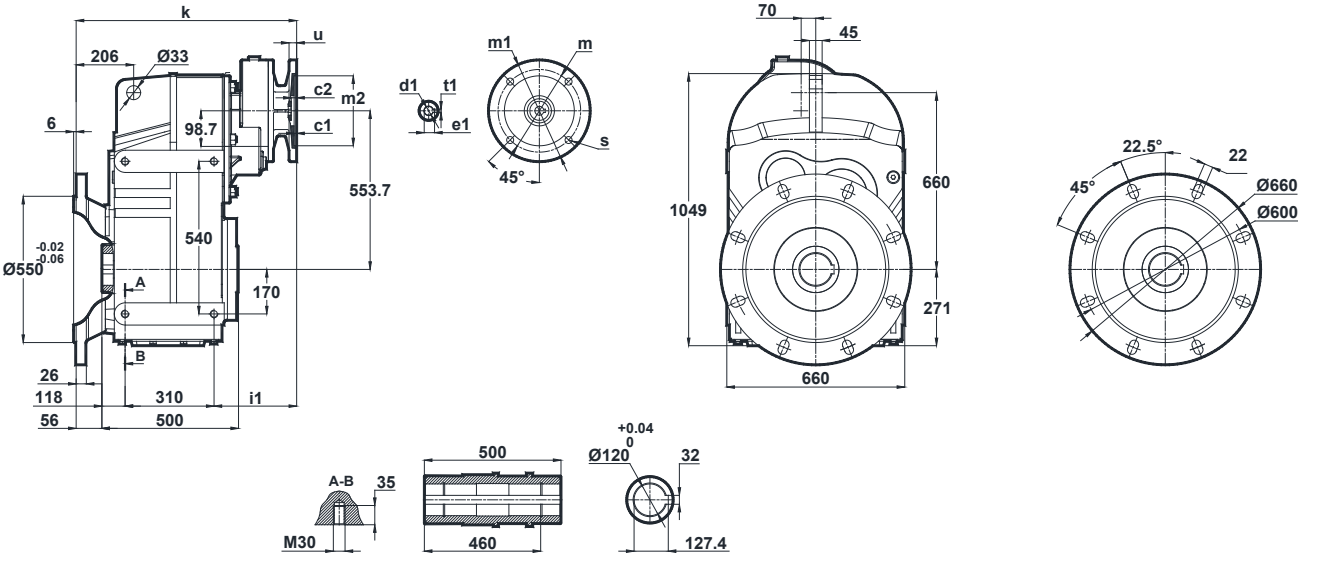
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	252	15	791	28	8	31.3
112/B5	5	15	15	215	250	180	252	15	902	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	267	15	917	38	10	41.3

DN974.02



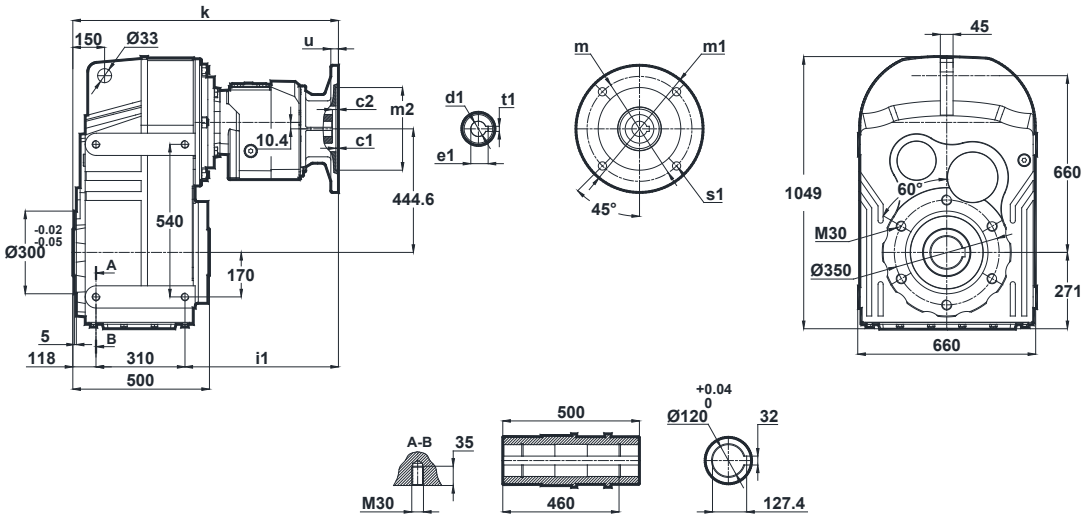
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	252	15	871	28	8	31.3
112/B5	5	15	15	215	250	180	252	15	946	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	267	15	961	38	10	41.3

DN974.03



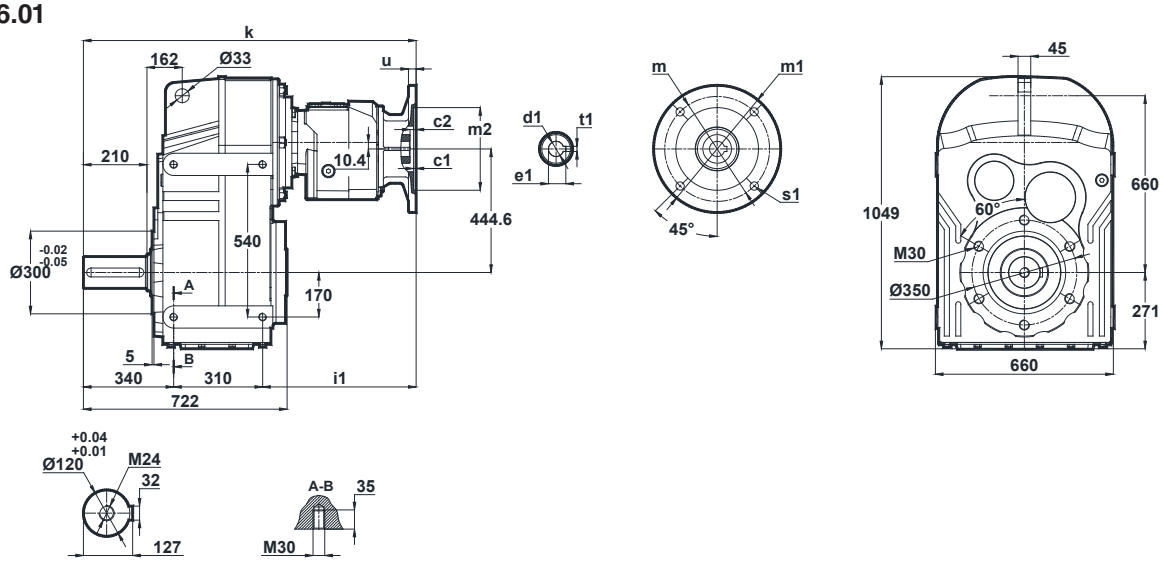
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	252	15	661	28	8	31.3
112/B5	5	15	15	215	250	180	252	15	736	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	267	15	751	38	10	41.3

DN975.00
DN976.00



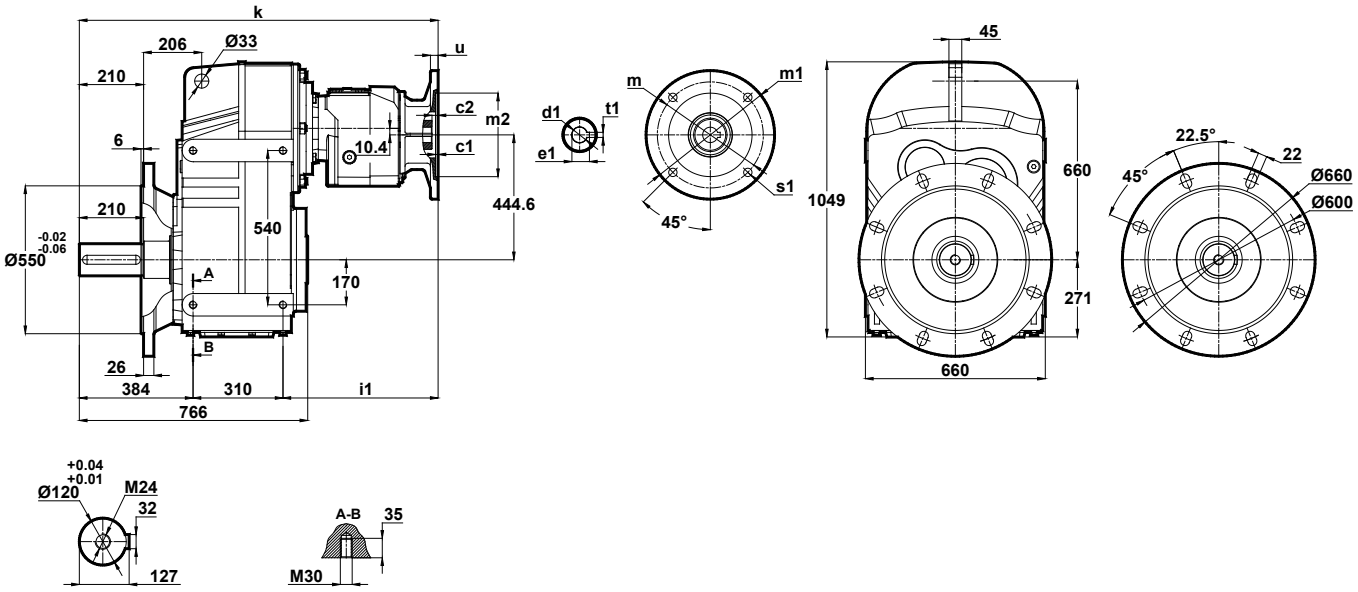
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	388	12	816	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	388	12	816	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	406	15	834	28	8	31.3

DN975.01
DN976.01



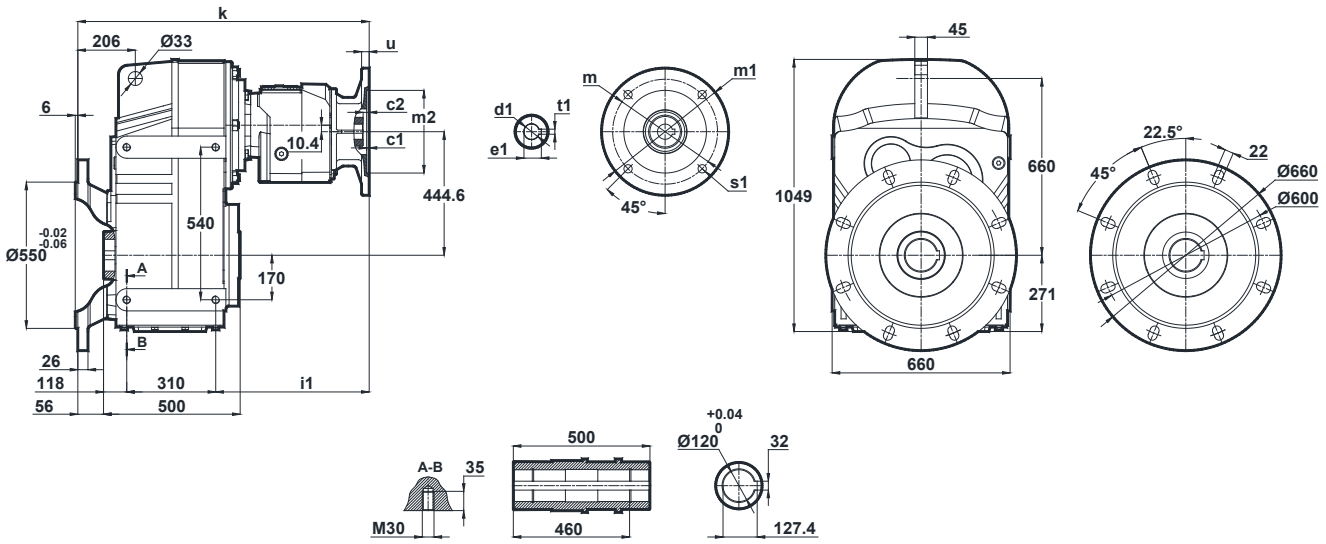
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	388	12	1038	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	388	12	1038	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	406	15	1056	28	8	31.3

DN975.02
DN976.02



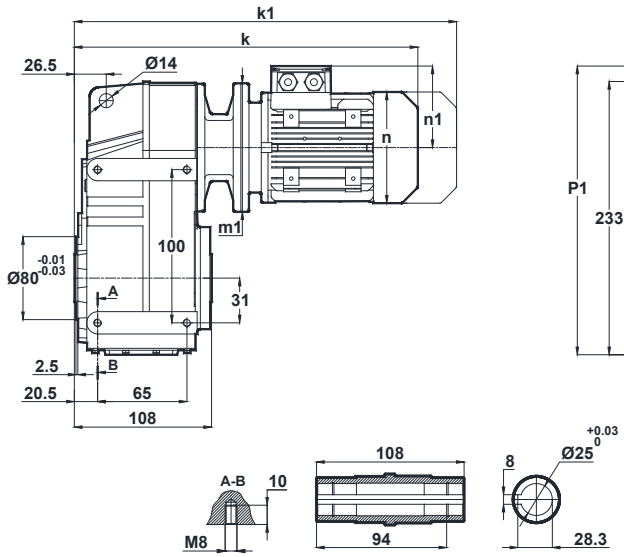
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	388	12	1082	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	388	12	1082	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	406	15	1100	28	8	31.3

DN975.03
DN976.03



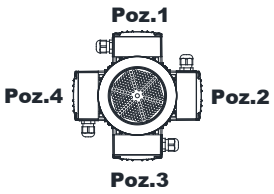
	c1	c2	s1	m	m1	m2(H7)	i1	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	388	12	872	19	6	21.8
90/B5 90/B14	4	5	12 9	165 115	200 140	130 95	388	12	872	24	8	27.3
100/B5 100/B14	5 4	9	15 9	215 130	250 160	180 110	406	15	890	28	8	31.3

DV072.00
DV073.00



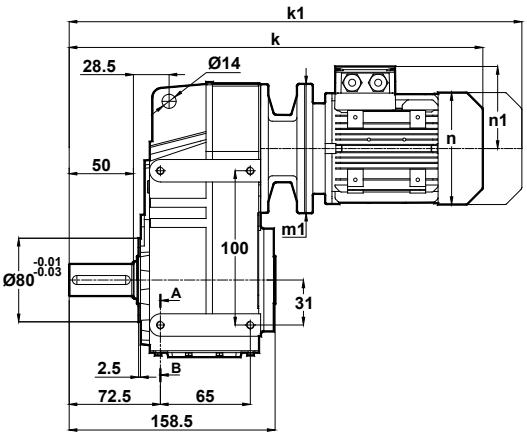
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	338	357.5	395.5	436.5	436.5	483
k1	399	448.5	488.5	540	540	591.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	264.5	279.5	288.5	299.5	299.5	314.5

Terminal Box Positions



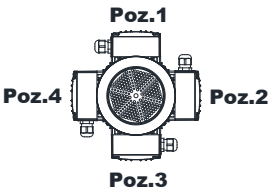
63-71-80-90-100
Type

DV072.01
DV073.01



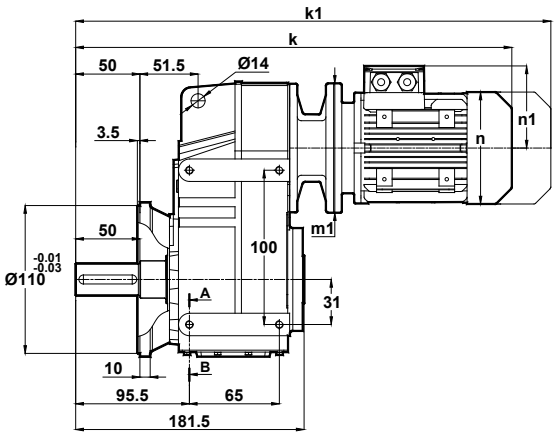
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	390	409.5	447.5	488.5	488.5	535
k1	451	500.5	540.5	592	592	643.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	264.5	279.5	288.5	299.5	299.5	314.5

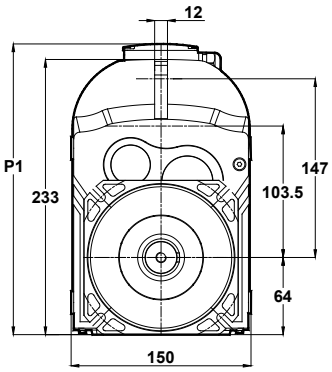
Terminal Box Positions

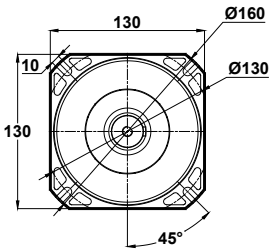


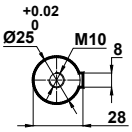
63-71-80-90-100
Type

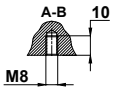
DV072.02
DV073.02





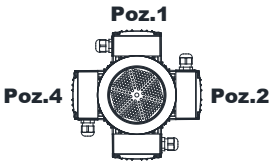






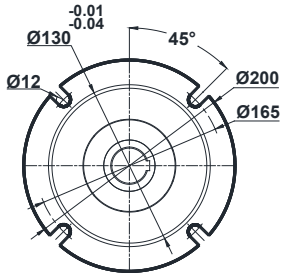
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	413	432.5	470.5	511.5	511.5	558
k1	474	523.5	563.5	615	615	666.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	264.5	279.5	288.5	299.5	299.5	314.5

Terminal Box Positions

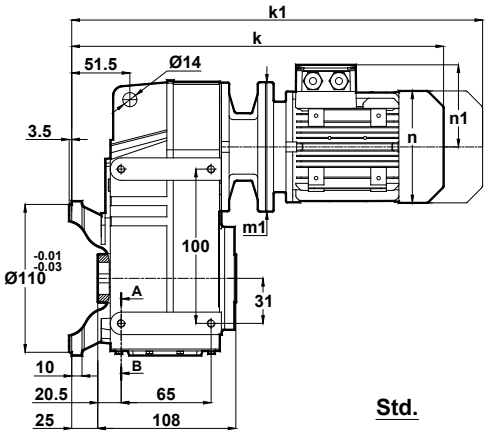


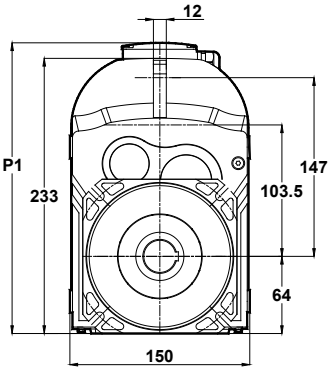
63-71-80-90-100
Type

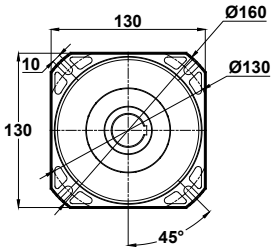
Optional Flange Dimensions



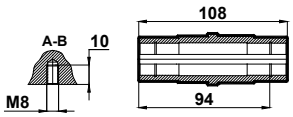
DV072.03
DV073.03





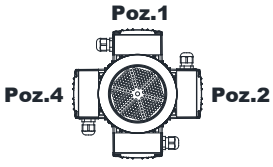


Std.



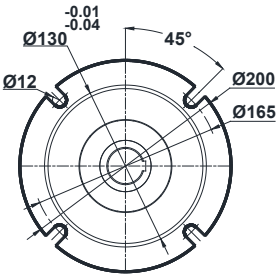
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	363	382.5	420.5	461.5	461.5	508
k1	424	473.5	513.5	565	565	616.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	264.5	279.5	288.5	299.5	299.5	314.5

Terminal Box Positions

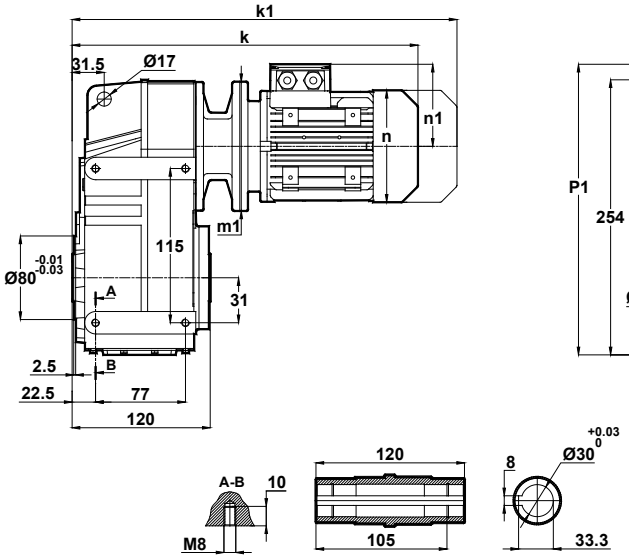


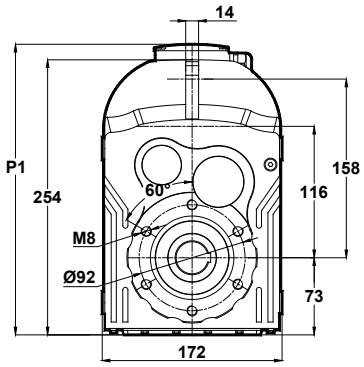
63-71-80-90-100
Type

Optional Flange Dimensions



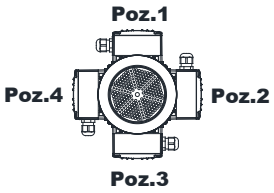
DV172.00
DV173.00





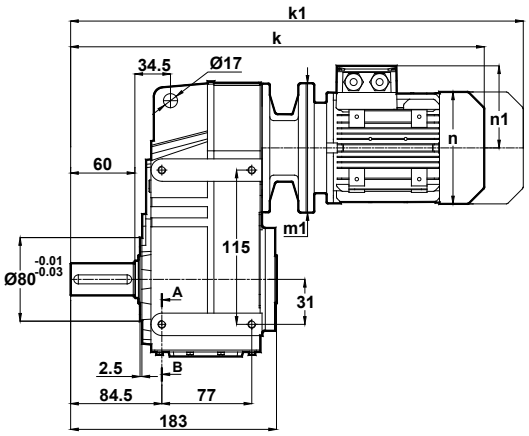
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	347	367	405	446	446	492
k1	408	458	498	550.5	550.5	611.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	286	301	310	321	321	336

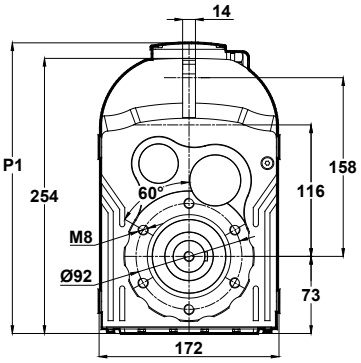
Terminal Box Positions



63-71-80-90-100
Type

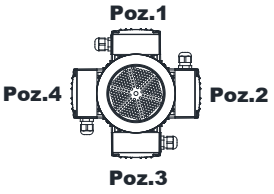
DV172.01
DV173.01



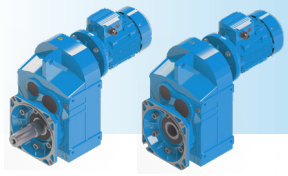


	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	410	430	468	509	509	555
k1	471	521	561	613.5	613.5	674.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	286	301	310	321	321	336

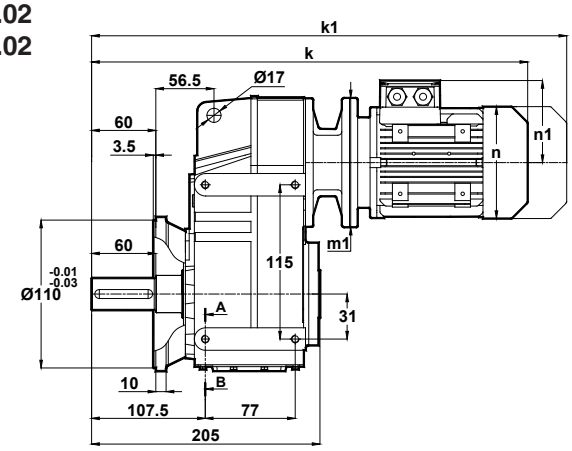
Terminal Box Positions

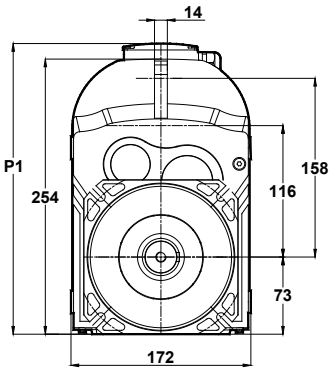


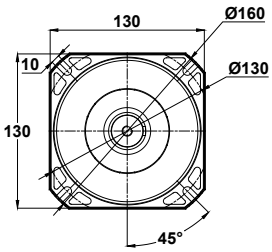
63-71-80-90-100
Type

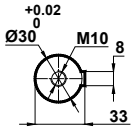


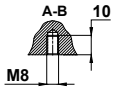
DV172.02
DV173.02





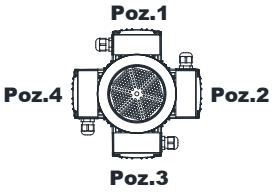






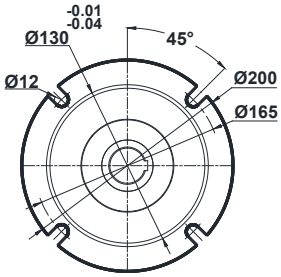
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	432	452	490	531	531	577
k1	493	543	583	635.5	635.5	696.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	286	301	310	321	321	336

Terminal Box Positions

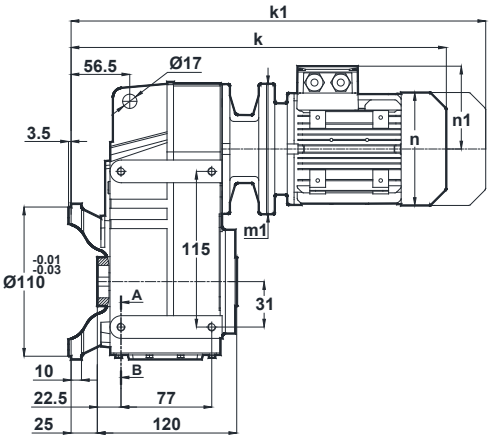


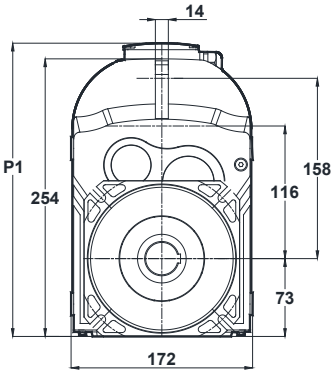
63-71-80-90-100
Type

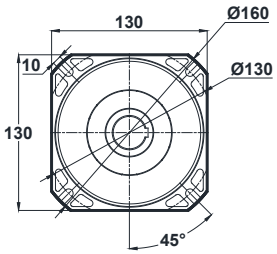
Optional Flange Dimensions

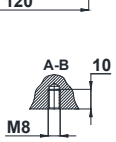


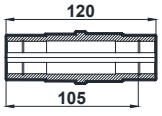
DV172.03
DV173.03

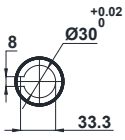






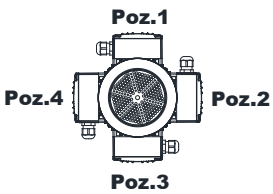






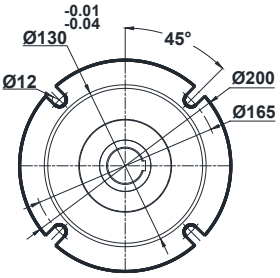
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	372	392	430	471	471	517
k1	433	483	523	575.5	575.5	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	286	301	310	321	321	336

Terminal Box Positions

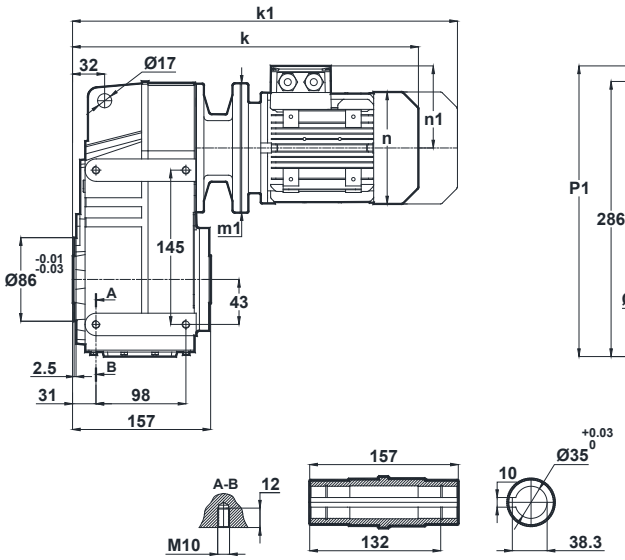


63-71-80-90-100
Type

Optional Flange Dimensions

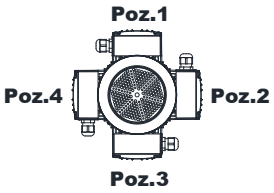


DV272.00
DV273.00



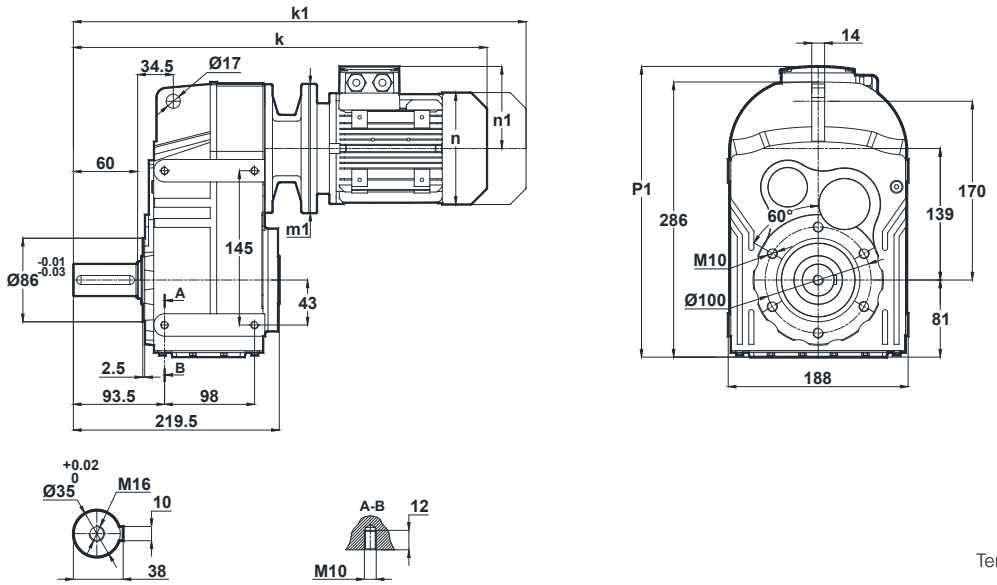
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	377	397	435	476	476	522
k1	438	488	528	580.5	580.5	641.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	317	332	341	352	352	367

Terminal Box Positions



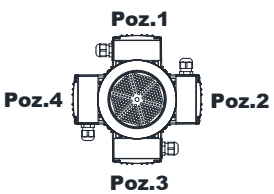
63-71-80-90-100
Type

DV272.01
DV273.01

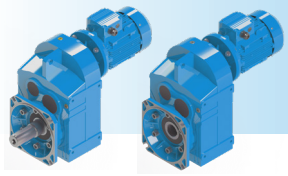


	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	439	459	497	538	538	584
k1	500	550	590	642.5	642.5	703.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	317	332	341	352	352	367

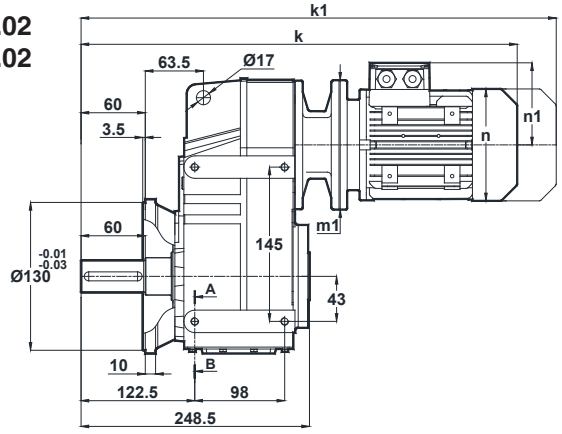
Terminal Box Positions

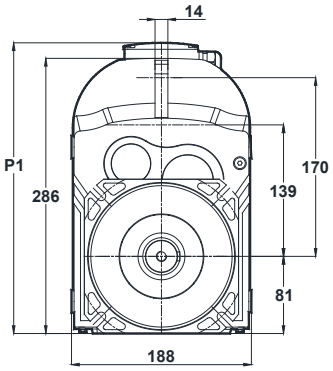


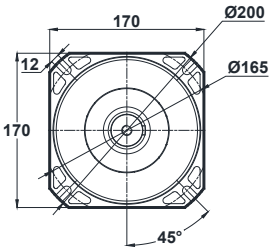
63-71-80-90-100
Type

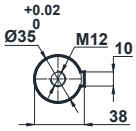


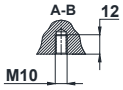
DV272.02
DV273.02





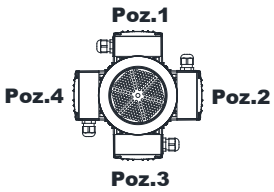






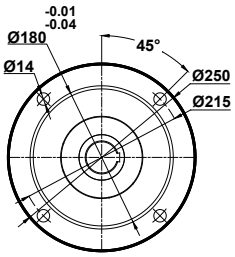
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	468	487.5	526	567	567	613
k1	529	578.5	619	671.5	671.5	732.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	317	332	341	352	352	367

Terminal Box Positions

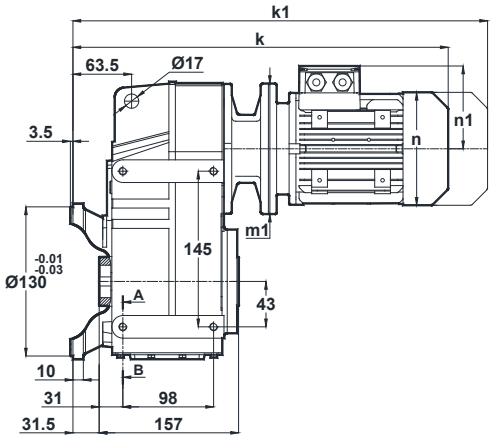


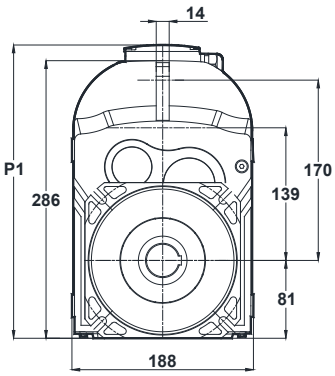
63-71-80-90-100
Type

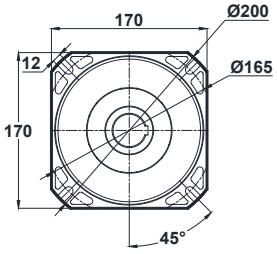
Optional Flange Dimensions

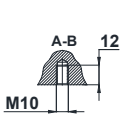


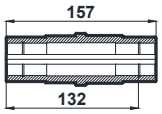
DV272.03
DV273.03

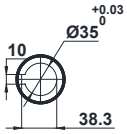






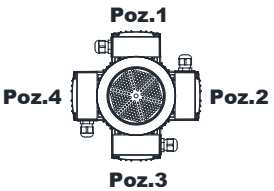






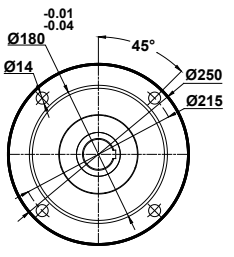
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	408	428	466	507	507	553
k1	469	519	559	611.5	611.5	672.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	140	160	200	200	200	250
m1 (B14)	90	105	120	140	140	160
p1	317	332	341	352	352	367

Terminal Box Positions

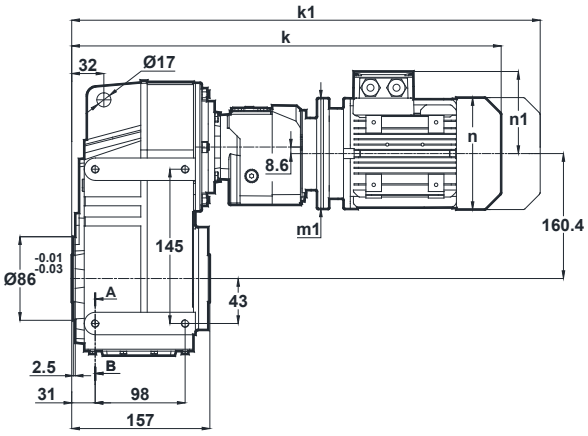


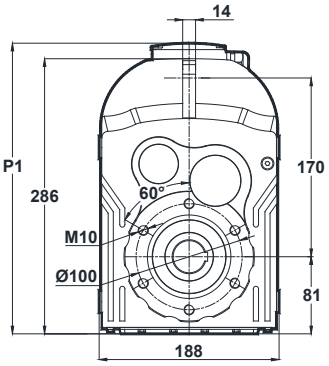
63-71-80-90-100
Type

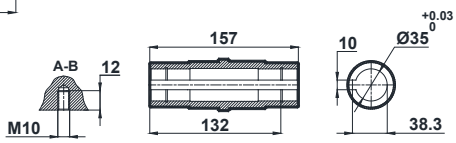
Optional Flange Dimensions



DV275.00
DV276.00

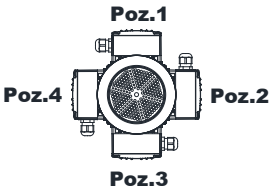






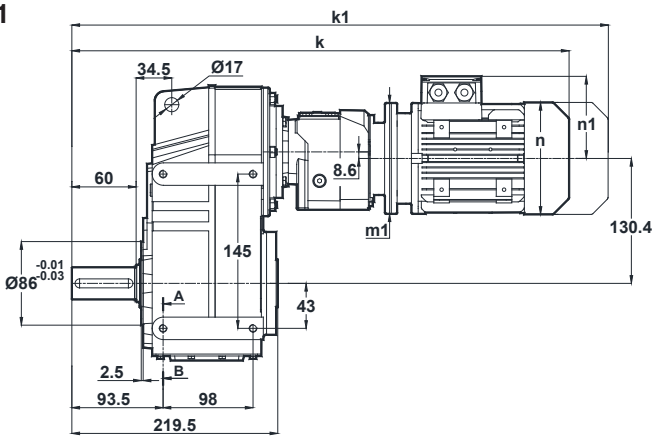
	63/B5 63/B14	71/B5 71/B14
k	526	546
k1	587	637
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	309	324

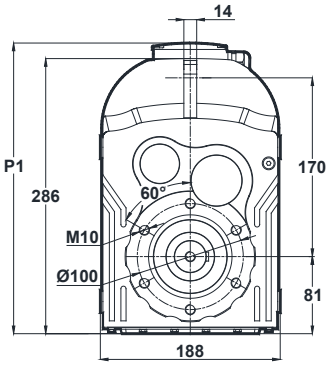
Terminal Box Positions

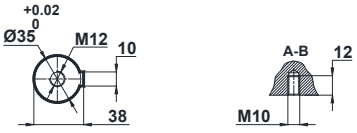


63-71
Type

DV275.01
DV276.01

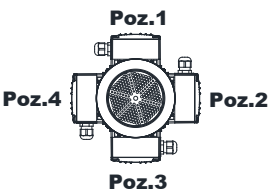




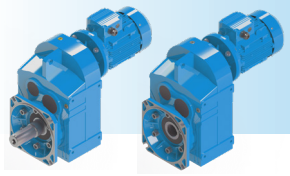


	63/B5 63/B14	71/B5 71/B14
k	588	608
k1	649	699
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	309	324

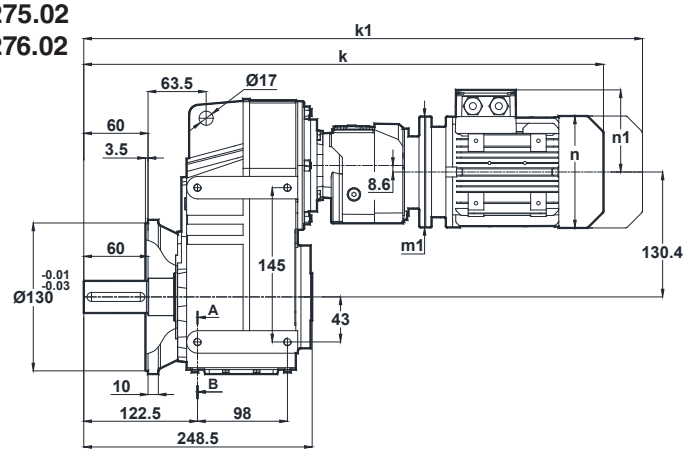
Terminal Box Positions

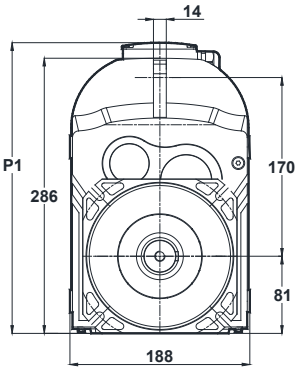


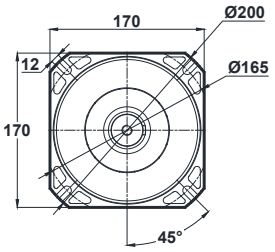
63-71
Type

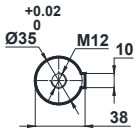


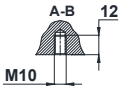
DV275.02
DV276.02



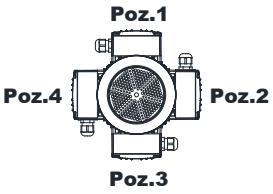






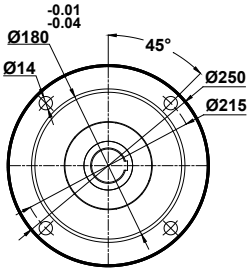


Terminal Box Positions



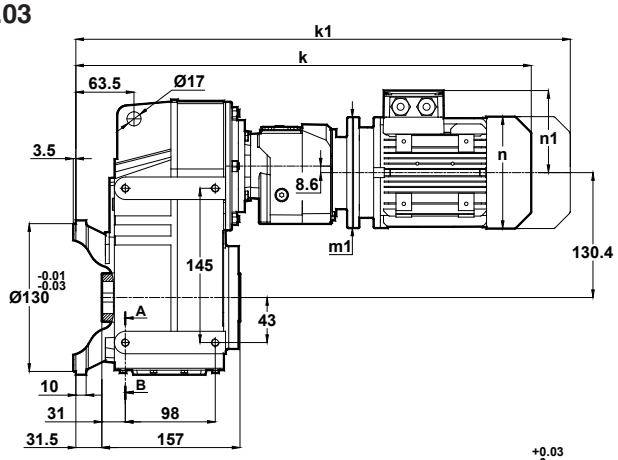
63-71
Type

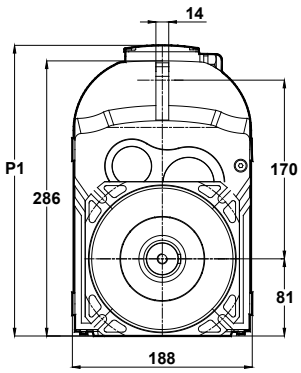
Optional Flange Dimensions

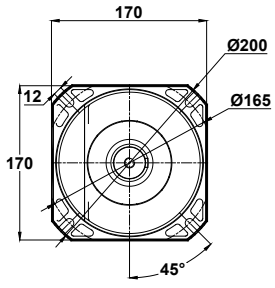


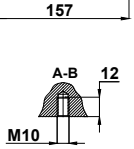
	63/B5 63/B14	71/B5 71/B14
k	617	637
k1	678	728
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	309	324

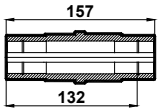
DV275.03
DV276.03

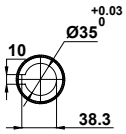




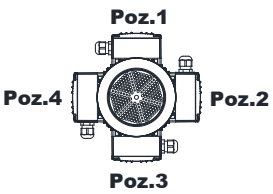






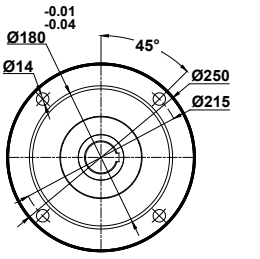


Terminal Box Positions



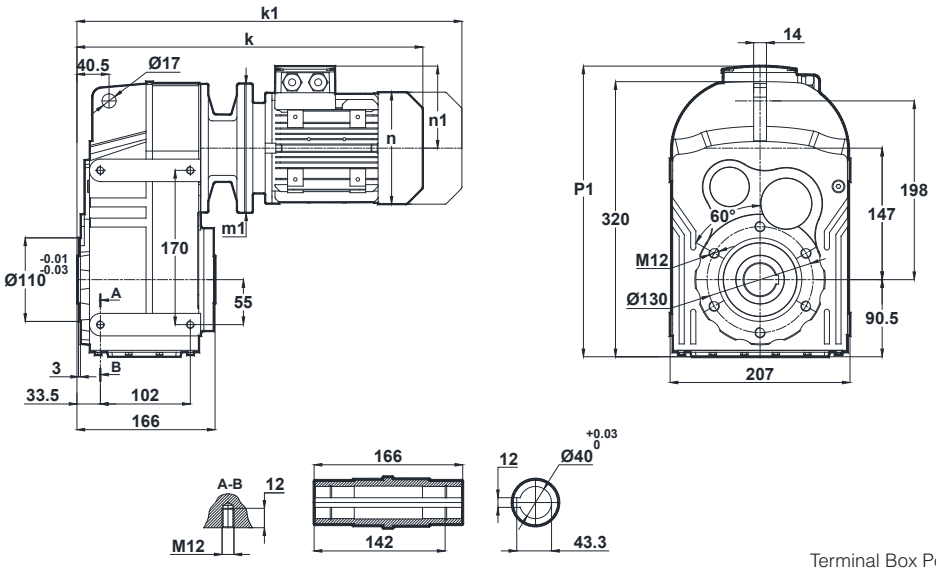
63-71
Type

Optional Flange Dimensions



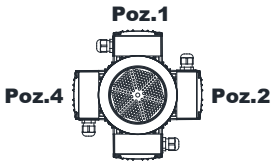
	63/B5 63/B14	71/B5 71/B14
k	557	577
k1	618	668
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	309	324

DV282.00
DV283.00



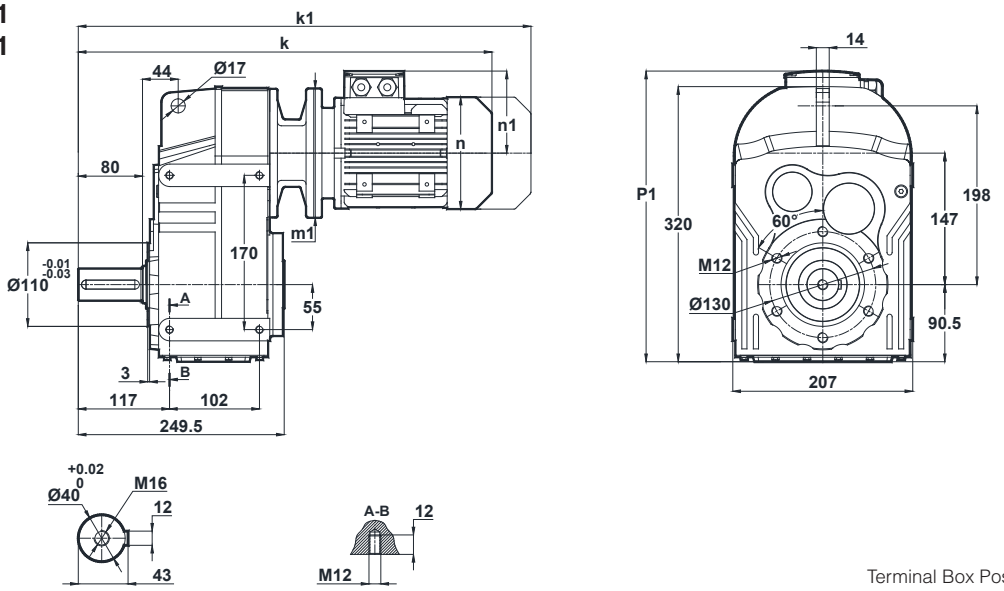
	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	405	457	498	498	526	547	674	674
k1	496	550	602.5	602.5	645.5	651.5	804	804
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	349	358	369	369	384	395	417	417

Terminal Box Positions



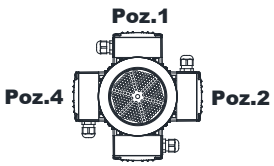
71-80-90-100-112-132
Type

DV282.01
DV283.01

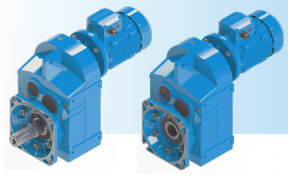


	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	489	541	582	582	610	631	758	758
k1	580	634	686.5	686.5	729.5	735.5	888	888
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	349	358	369	369	384	395	417	417

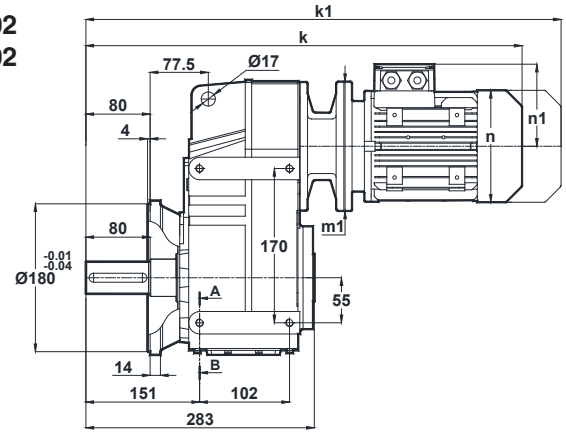
Terminal Box Positions

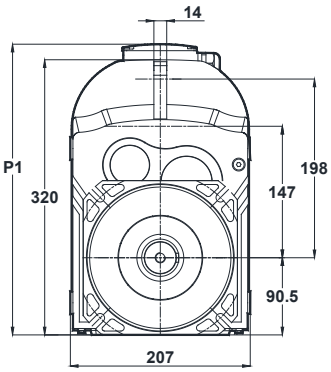


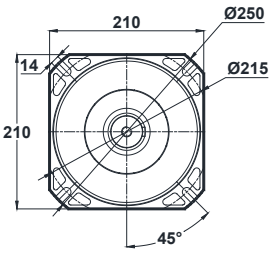
71-80-90-100-112-132
Type

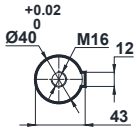


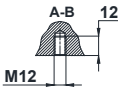
DV282.02
DV283.02



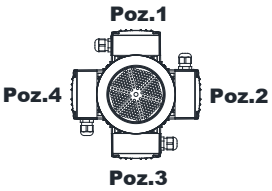






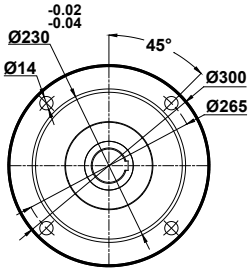


Terminal Box Positions



71-80-90-100-112-132
Type

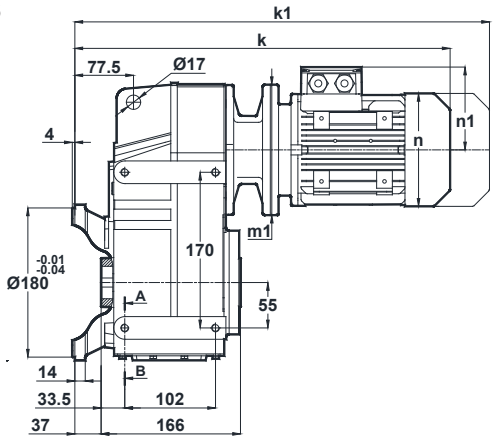
Optional Flange Dimensions

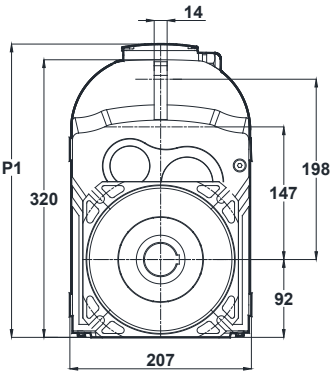


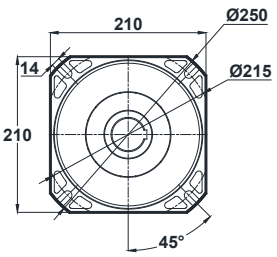
	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	522	574	615	615	643	664	791	791
k1	613	667	719.5	719.5	762.5	768.5	921	921
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	349	358	369	369	384	395	417	417

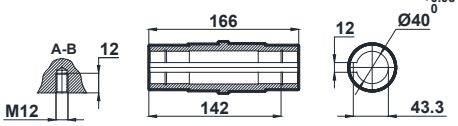
Please see on page 318 for other optional flange dimensions

DV282.03
DV283.03

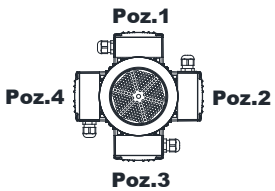






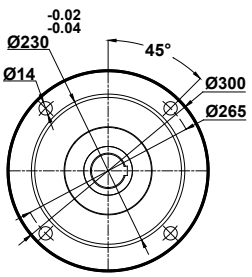


Terminal Box Positions



71-80-90-100-112-132
Type

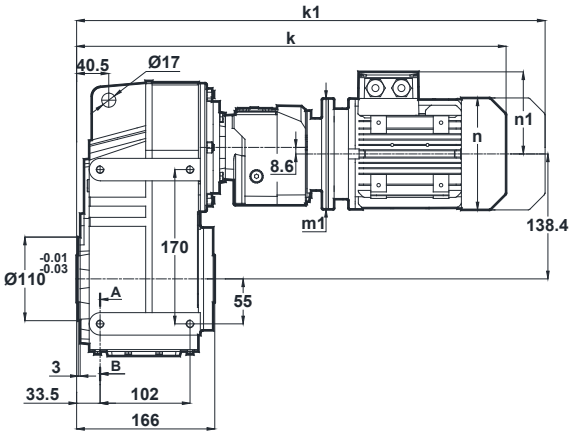
Optional Flange Dimensions

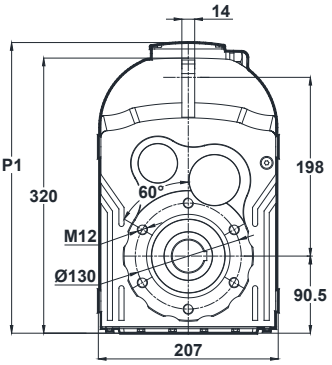


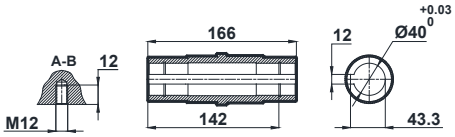
	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	442	494	535	535	563	584	711	711
k1	533	587	639.5	639.5	682.5	688.5	841	841
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	349	358	369	369	384	395	417	417

Please see on page 318 for other optional flange dimensions

DV285.00
DV286.00

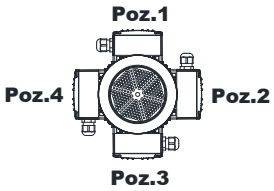






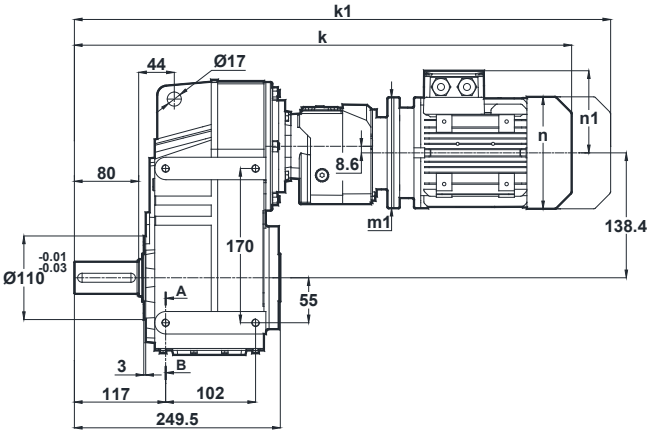
	63/B5 63/B14	71/B5 71/B14
k	531	551
k1	592	642
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	326	341

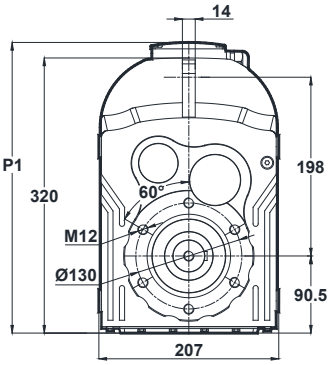
Terminal Box Positions

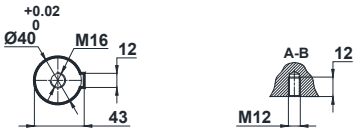


63-71
Type

DV285.01
DV286.01

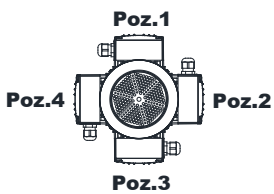




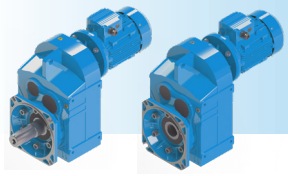


	63/B5 63/B14	71/B5 71/B14
k	615	635
k1	676	726
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	326	341

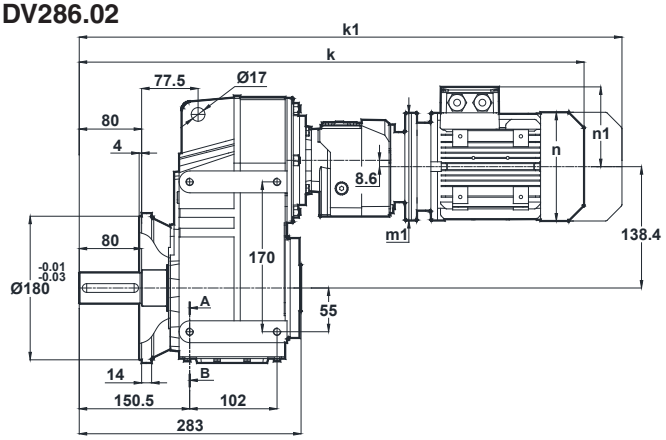
Terminal Box Positions

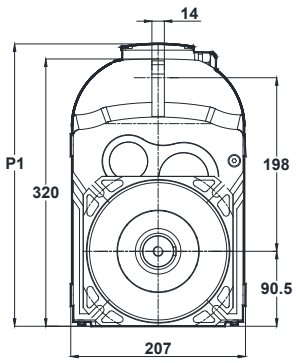


63-71
Type

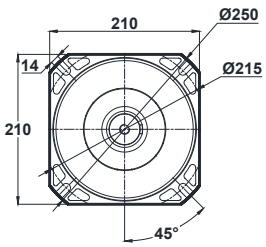


DV285.02
DV286.02

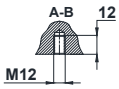


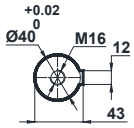


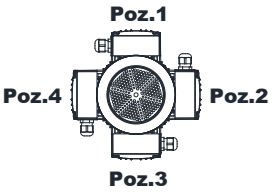
Terminal Box Positions



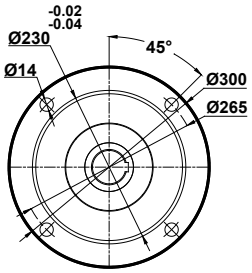
Optional Flange Dimensions







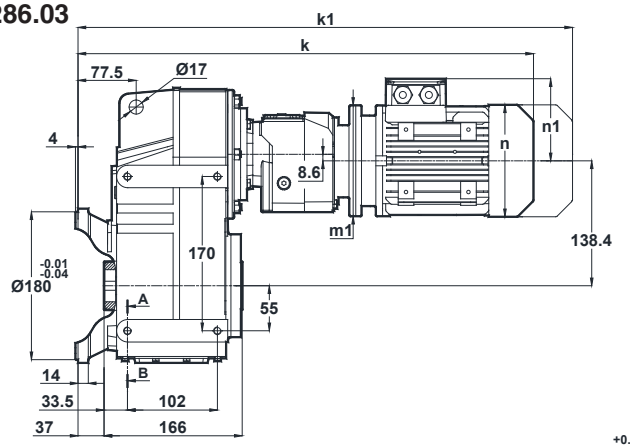
63-71
Type

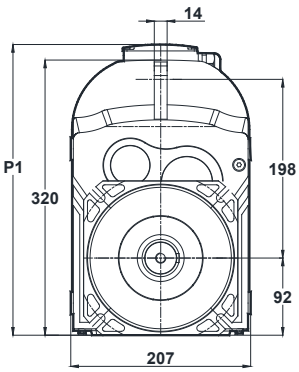


	63/B5 63/B14	71/B5 71/B14
k	648	668
k1	709	759
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	326	341

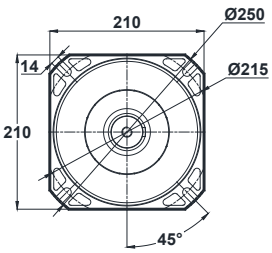
Please see on page 318 for other optional flange dimensions

DV285.03
DV286.03

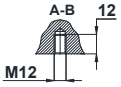


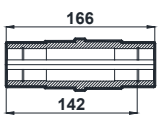


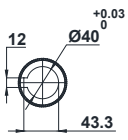
Terminal Box Positions

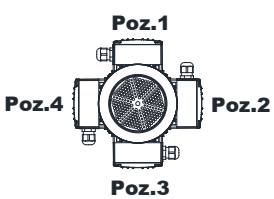


Optional Flange Dimensions

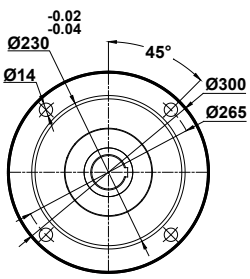








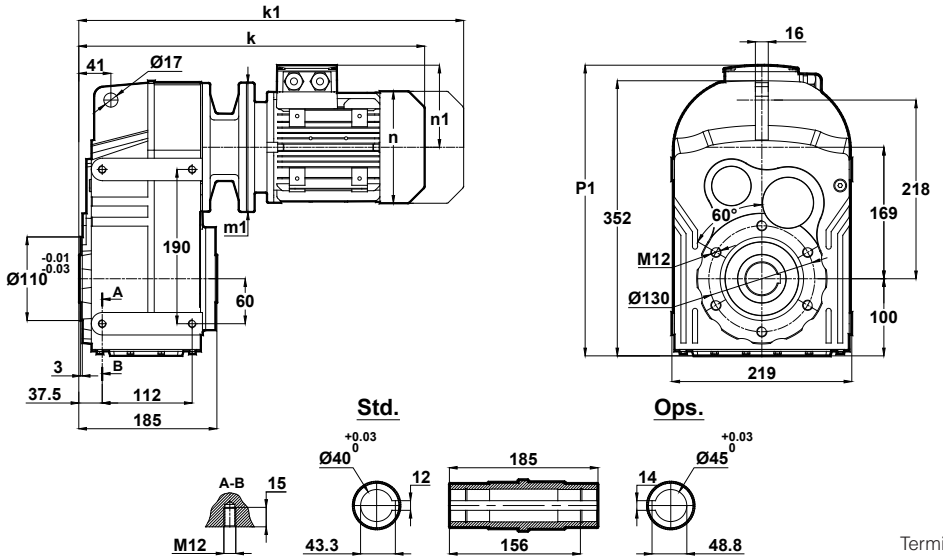
63-71
Type



	63/B5 63/B14	71/B5 71/B14
k	568	588
k1	629	679
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	326	341

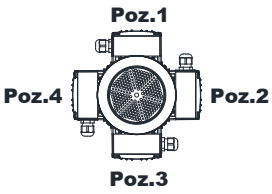
Please see on page 318 for other optional flange dimensions

DV372.00
DV373.00



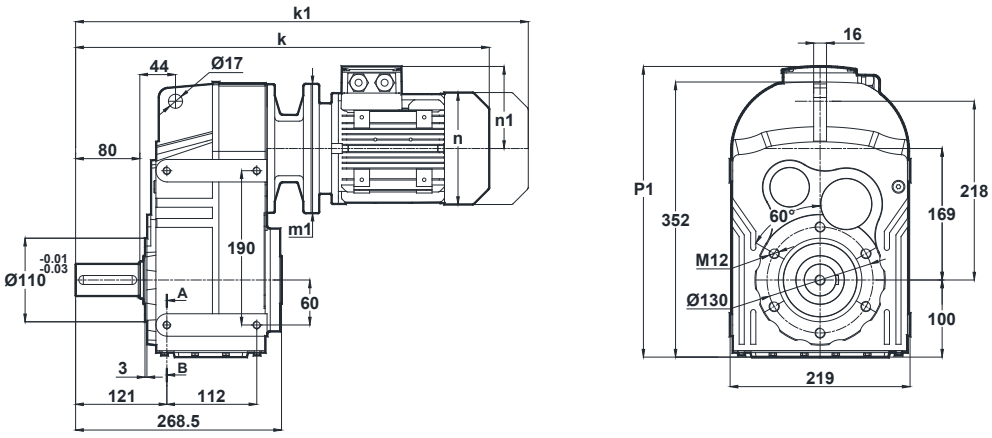
	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	416	468	509	509	537	558	685	685
k1	507	561	613.5	613.5	656.5	662.5	815	815
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	381	390	401	401	416	427	448	448

Terminal Box Positions



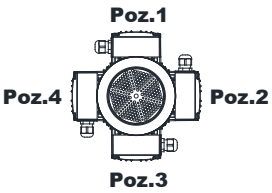
71-80-90-100-112-132
Type

DV372.01
DV373.01

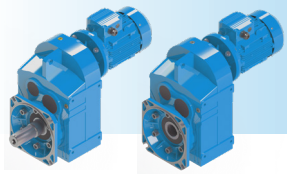


	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	499	551	592	592	620	641	768	768
k1	590	644	696.5	696.5	739.5	745.5	898	898
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	381	390	401	401	416	427	448	448

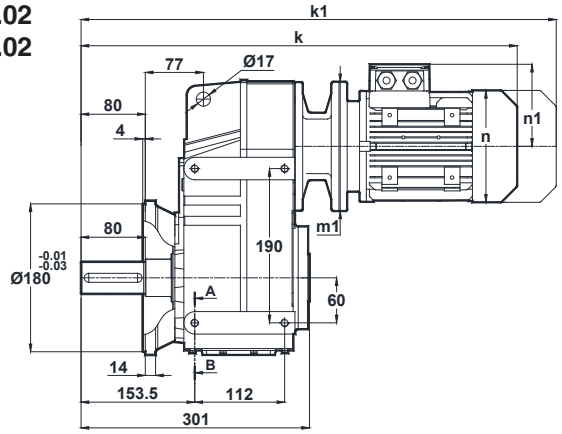
Terminal Box Positions

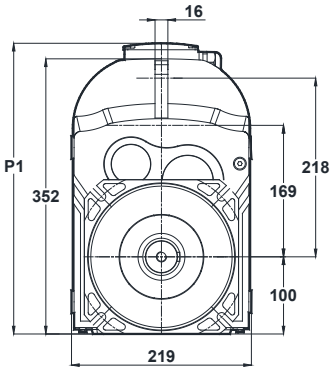


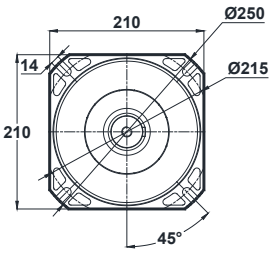
71-80-90-100-112-132
Type

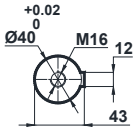


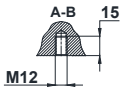
DV372.02
DV373.02



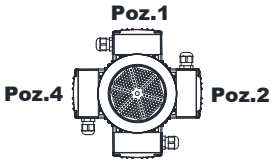






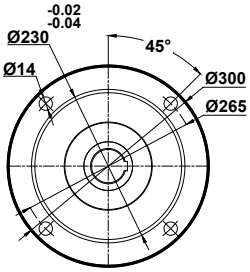


Terminal Box Positions



71-80-90-100-112-132
Type

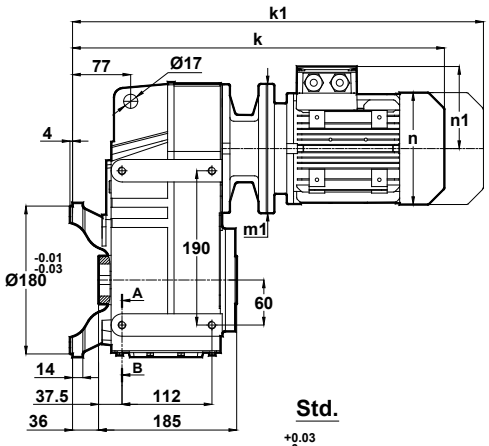
Optional Flange Dimensions

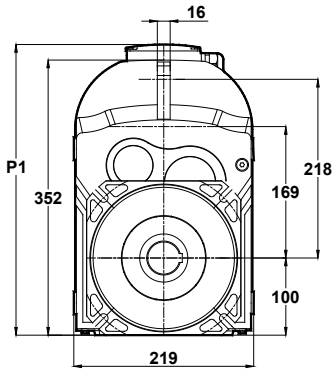


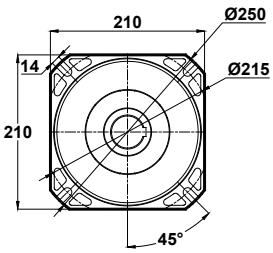
	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	532	584	625	625	653	674	801	801
k1	623	677	729.5	729.5	772.5	778.5	931	931
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	381	390	401	401	416	427	448	448

Please see on page 318 for other optional flange dimensions

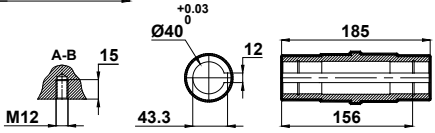
DV372.03
DV373.03



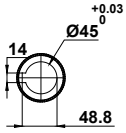




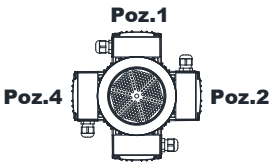
Std.



Ops.

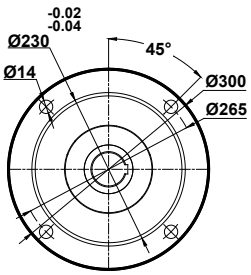


Terminal Box Positions



71-80-90-100-112-132
Type

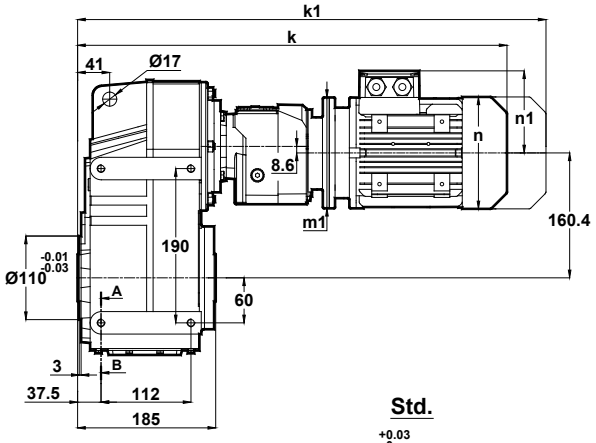
Optional Flange Dimensions

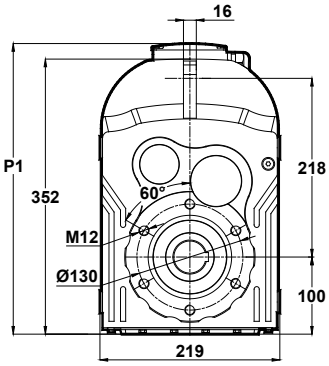


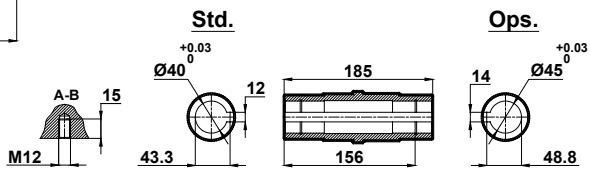
	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	452	504	545	545	573	594	721	721
k1	543	597	649.5	649.5	692.5	698.5	851	851
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	105	120	140	140	160	160	200	200
p1	381	390	401	401	416	427	448	448

Please see on page 318 for other optional flange dimensions

DV375.00
DV376.00

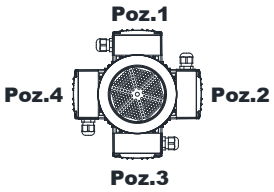






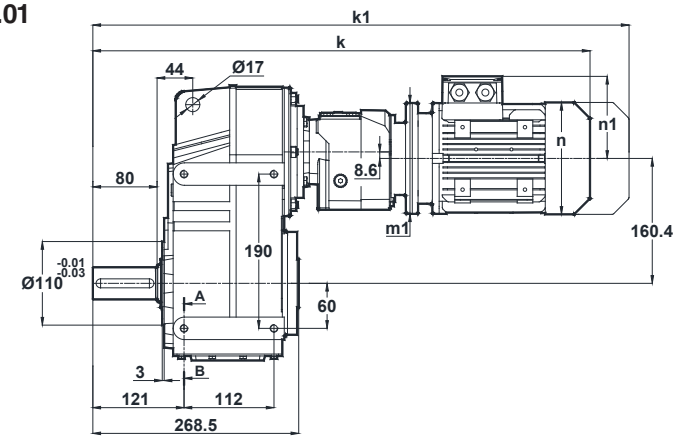
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	542	562	600
k1	603	653	693
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	90	105	120
p1	358	373	382

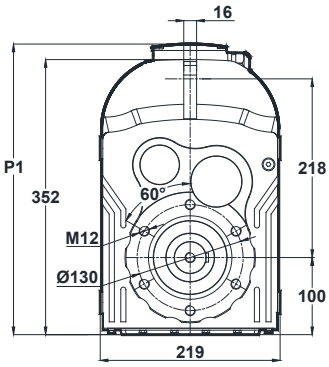
Terminal Box Positions

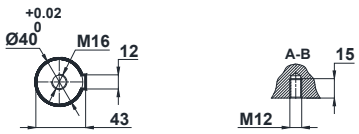


63-71-80
Type

DV375.01
DV376.01

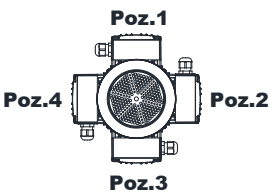




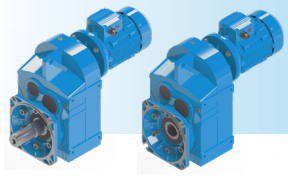


	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	625	645	683
k1	686	736	776
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	90	105	120
p1	358	373	382

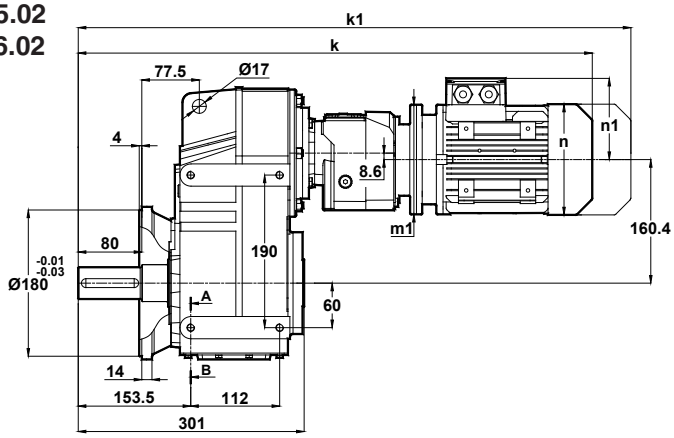
Terminal Box Positions

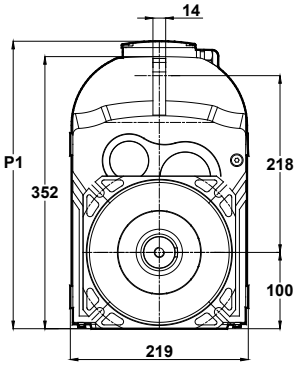


63-71-80
Type

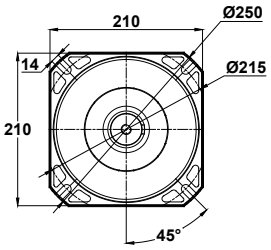


DV375.02
DV376.02

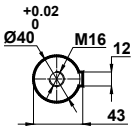


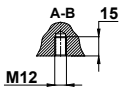


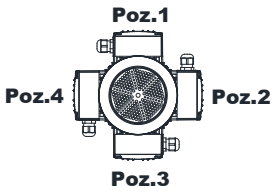
Terminal Box Positions



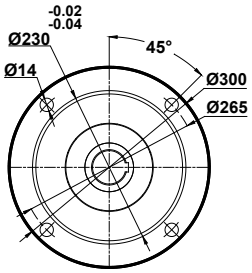
Optional Flange Dimensions







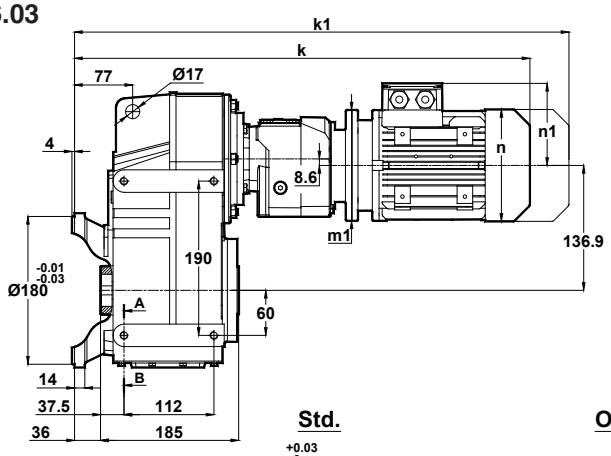
63-71-80
Type

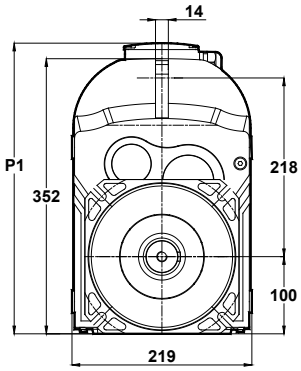


	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	658	678	716
k1	719	769	809
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	90	105	120
p1	358	373	382

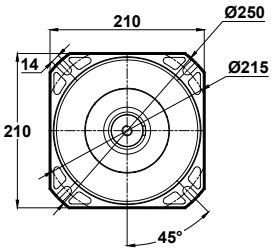
Please see on page 318 for other optional flange dimensions

DV375.03
DV376.03



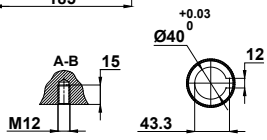


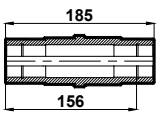
Terminal Box Positions



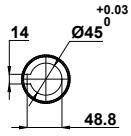
Optional Flange Dimensions

Std.

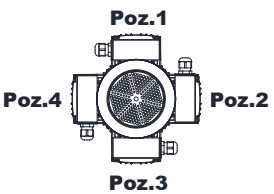




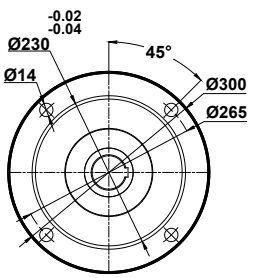
Ops.



	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	578	598	636
k1	639	689	729
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	90	105	120
p1	358	373	382

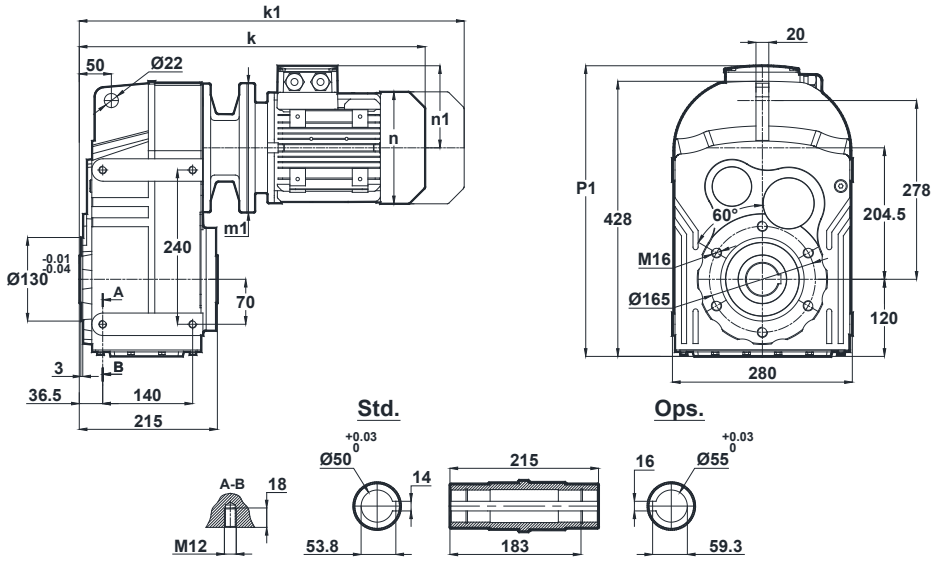


63-71-80
Type



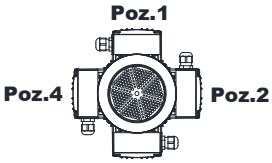
Please see on page 318 for other optional flange dimensions

DV472.00
DV473.00



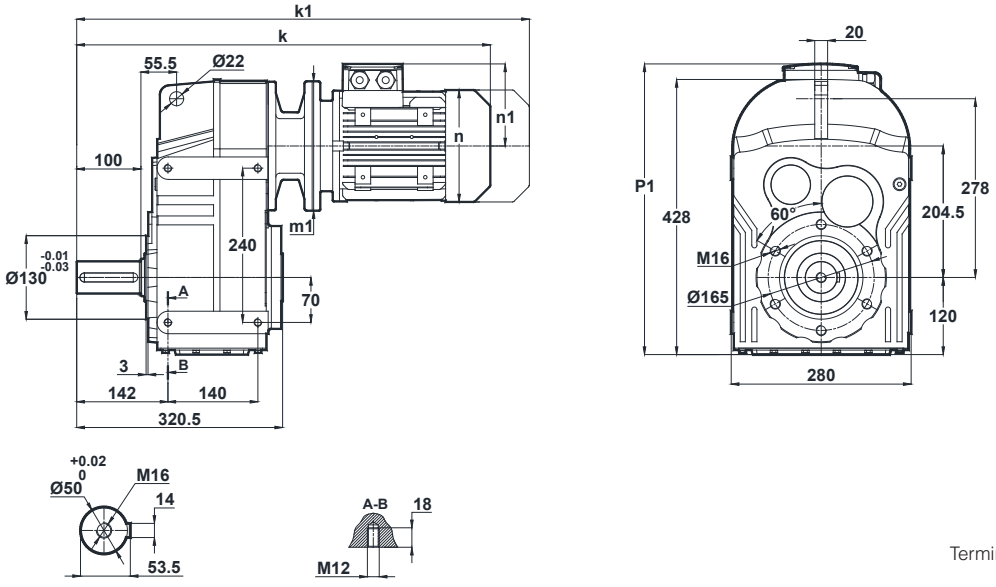
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5
k	471	494	535	535	587	608	712	712	871	871
k1	562	587	639.5	639.5	706.5	712.5	842	842	1051	1051
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219
m1 (B5)	160	200	200	200	250	250	300	300	350	350
m1 (B14)	-	120	140	140	160	160	200	200	-	-
p1	437	446	457	457	472	483	504	504	544	544

Terminal Box Positions



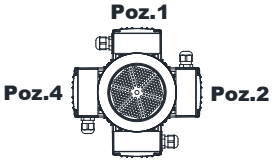
71-80-90-100-112-132-160
Type

DV472.01
DV473.01

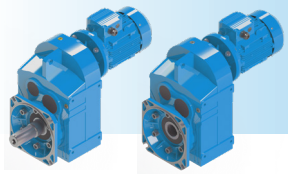


	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5
k	576	599	640	640	692	713	817	817	976	976
k1	667	692	744.5	744.5	811.5	817.5	947	947	1156	1156
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219
m1 (B5)	160	200	200	200	250	250	300	300	350	350
m1 (B14)	-	120	140	140	160	160	200	200	-	-
p1	437	446	457	457	472	483	504	504	544	544

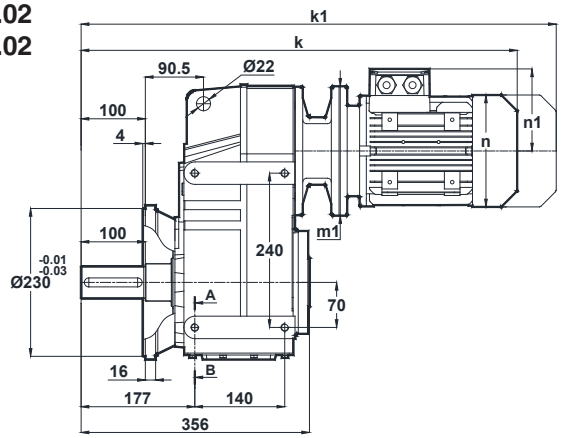
Terminal Box Positions

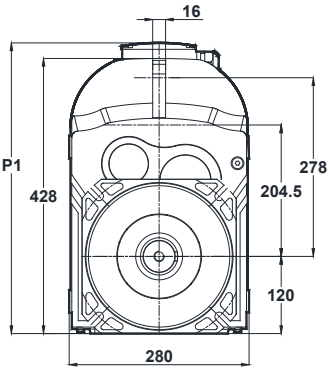


71-80-90-100-112-132-160
Type

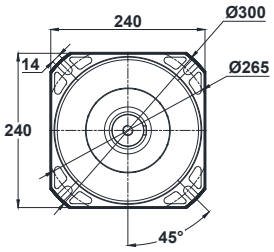


DV472.02
DV473.02

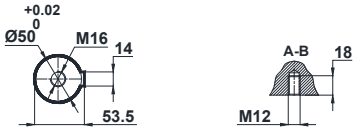


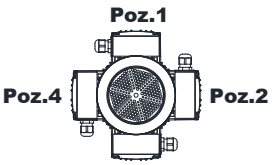


Terminal Box Positions

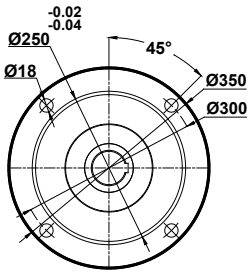


Optional Flange Dimensions





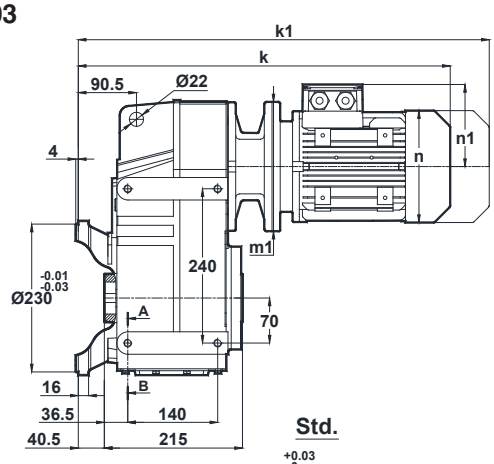
71-80-90-100-112-132-160
Type

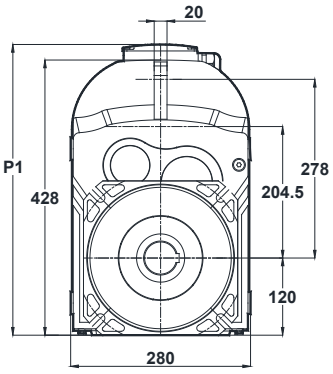


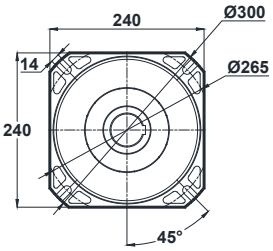
Please see on page 318 for other optional flange dimensions

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5
k	611	634	675	675	727	748	852	852	1011	1011
k1	702	727	779.5	779.5	846.5	852.5	982	982	1191	1191
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219
m1 (B5)	160	200	200	200	250	250	300	300	350	350
m1 (B14)	-	120	140	140	160	160	200	200	-	-
p1	437	446	457	457	472	483	504	504	544	544

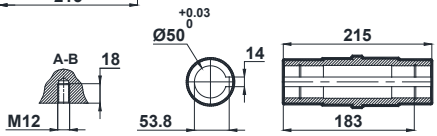
DV472.03
DV473.03



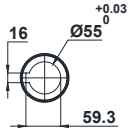




Std.



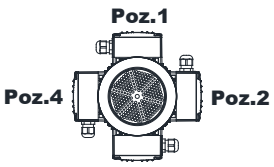
Ops.



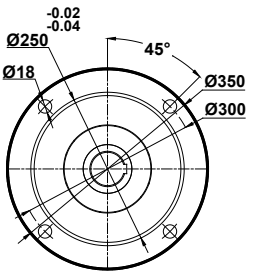
Terminal Box Positions

Optional Flange Dimensions

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5
k	511	534	575	575	627	648	752	752	911	911
k1	602	627	679.5	679.5	746.5	752.5	882	882	1091	1091
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219
m1 (B5)	160	200	200	200	250	250	300	300	350	350
m1 (B14)	-	120	140	140	160	160	200	200	-	-
p1	437	446	457	457	472	483	504	504	544	544

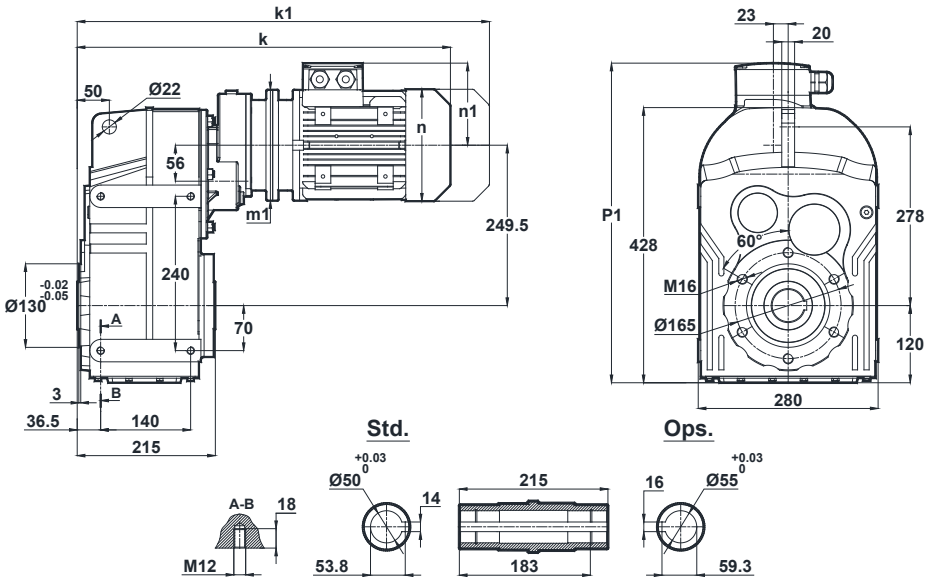


71-80-90-100-112-132-160
Type



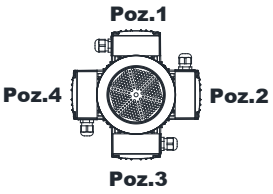
Please see on page 318 for other optional flange dimensions

DV474.00



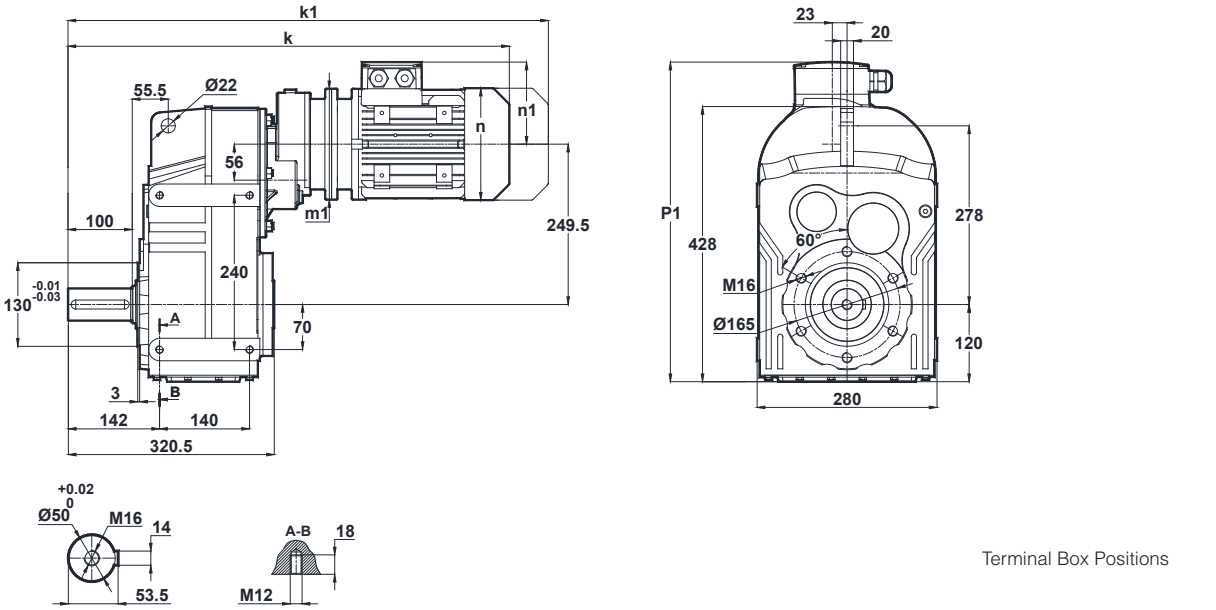
	63/B5	71/B5 71/B14	80/B5 80/B14
k	530	519	577
k1	591	610	670
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	467	482	491

Terminal Box Positions



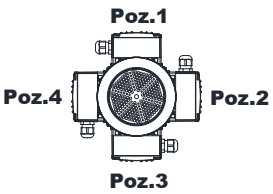
63-71-80
Type

DV474.01



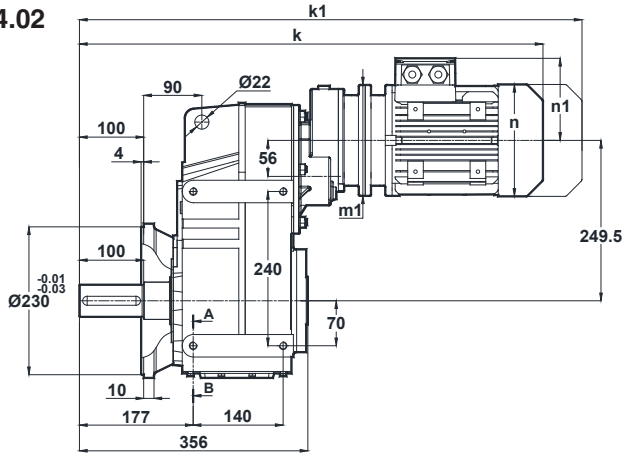
	63/B5	71/B5 71/B14	80/B5 80/B14
k	898	624	682
k1	959	715	775
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	467	482	491

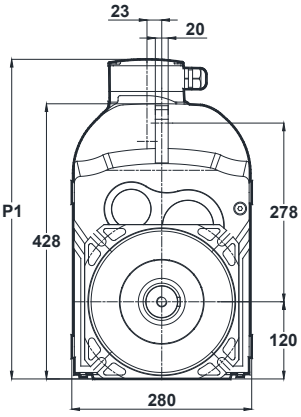
Terminal Box Positions

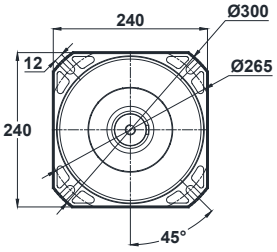


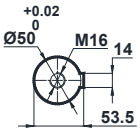
63-71-80
Type

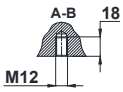
DV474.02





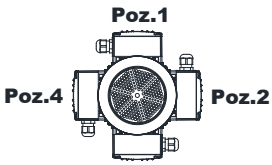






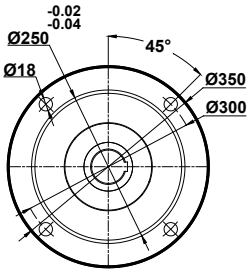
	63/B5	71/B5 71/B14	80/B5 80/B14
k	670	659	717
k1	731	750	810
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	467	482	491

Terminal Box Positions



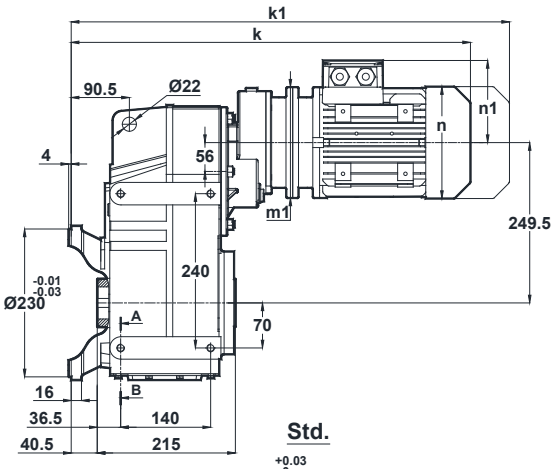
63-71-80
Type

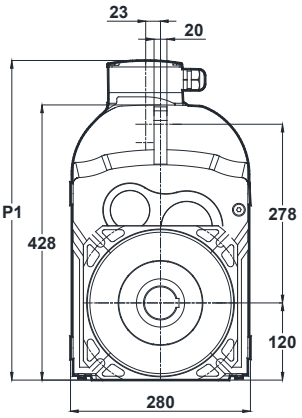
Optional Flange Dimensions

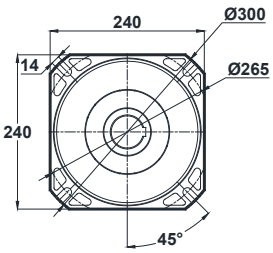


Please see on page 318 for other optional flange dimensions

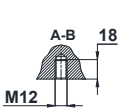
DV474.03

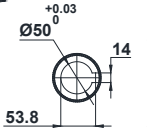


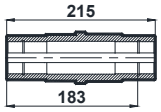




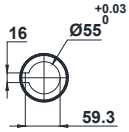
Std.





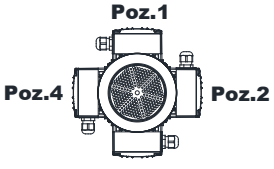


Ops.



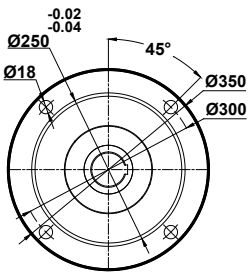
	63/B5	71/B5 71/B14	80/B5 80/B14
k	833	559	617
k1	894	650	710
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	467	482	491

Terminal Box Positions



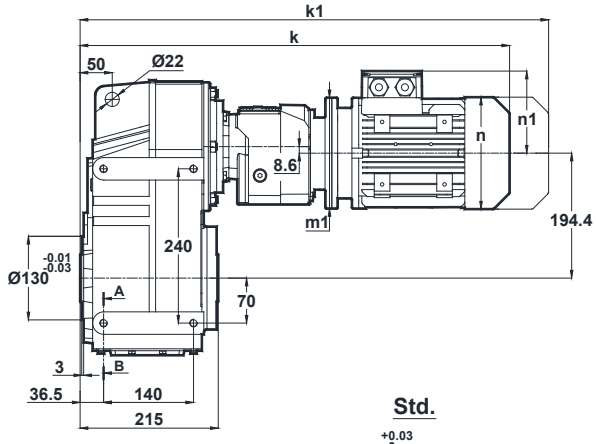
63-71-80
Type

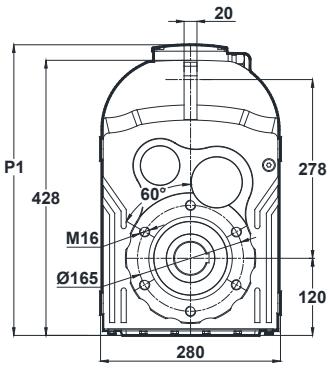
Optional Flange Dimensions

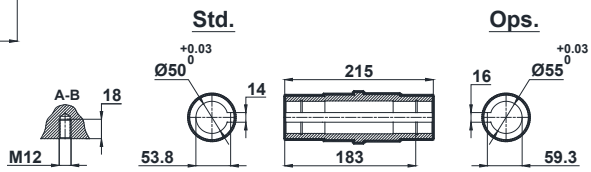


Please see on page 318 for other optional flange dimensions

DV475.00
DV476.00

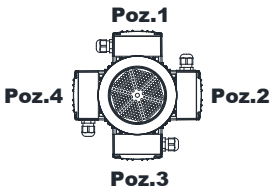






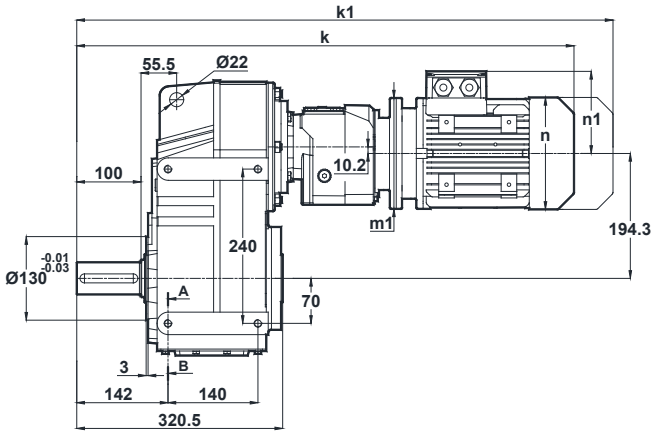
	63/B5 63/B14	71/B5 71/B14
k	595	614
k1	656	705
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	-	-

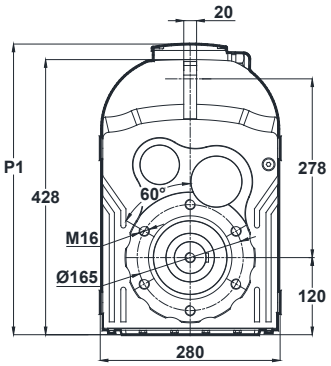
Terminal Box Positions

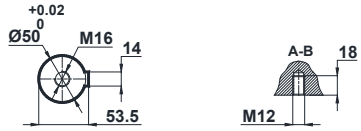


63-71
Type

DV475.01
DV476.01

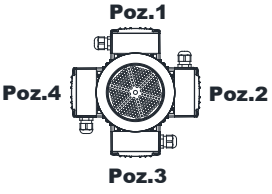




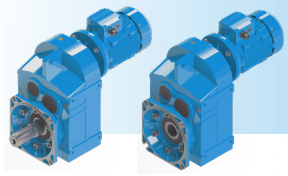


	63/B5 63/B14	71/B5 71/B14
k	700	719
k1	761	810
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	-	-

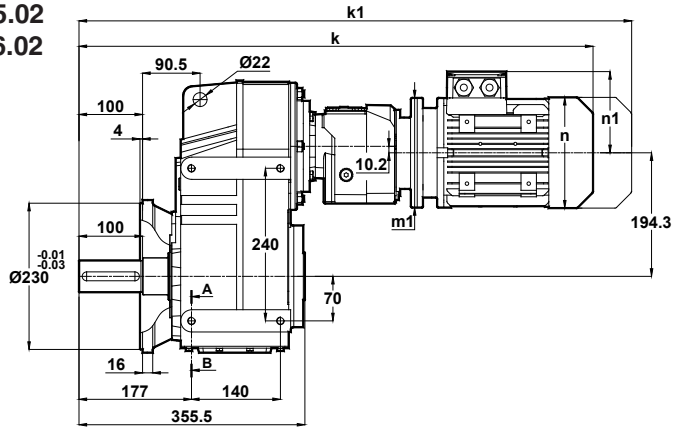
Terminal Box Positions

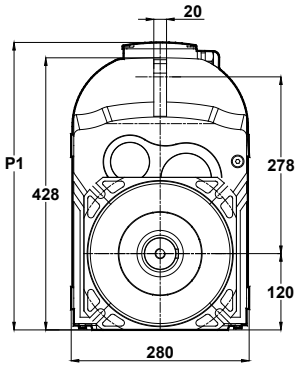


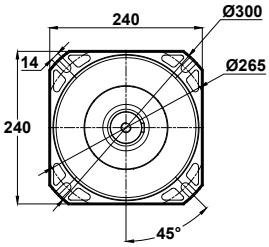
63-71
Type

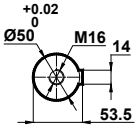


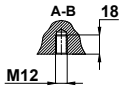
DV475.02
DV476.02





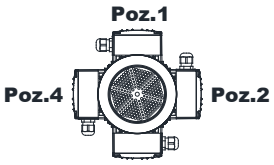






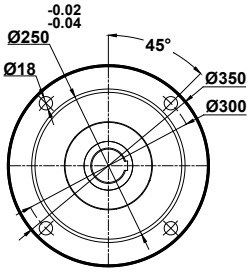
	63/B5 63/B14	71/B5 71/B14
k	735	754
k1	796	845
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	-	-

Terminal Box Positions



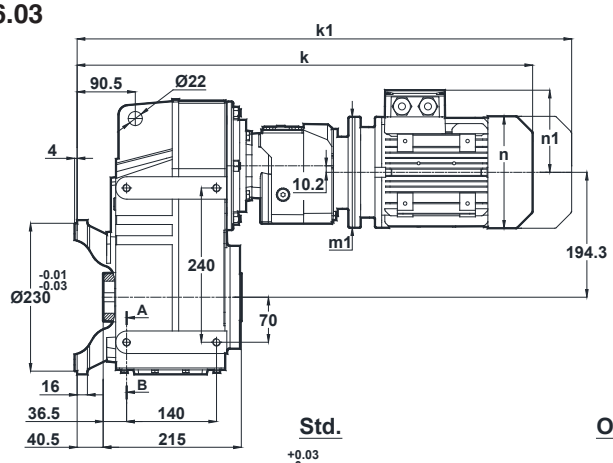
63-71
Type

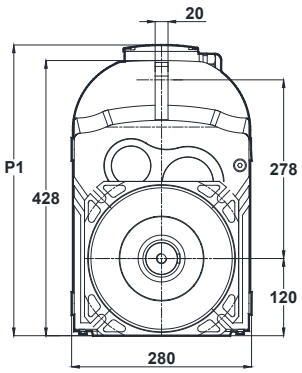
Optional Flange Dimensions

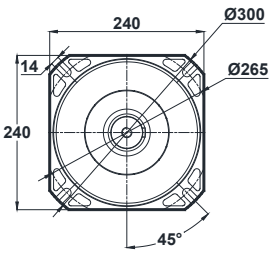


Please see on page 318 for other optional flange dimensions

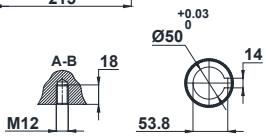
DV475.03
DV476.03

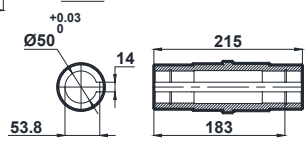




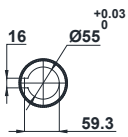


Std.



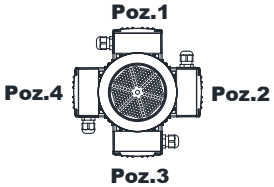


Ops.



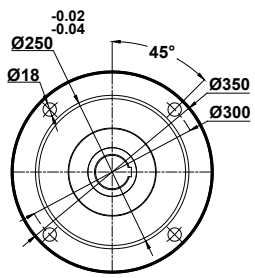
	63/B5 63/B14	71/B5 71/B14
k	635	654
k1	696	745
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105
p1	-	-

Terminal Box Positions



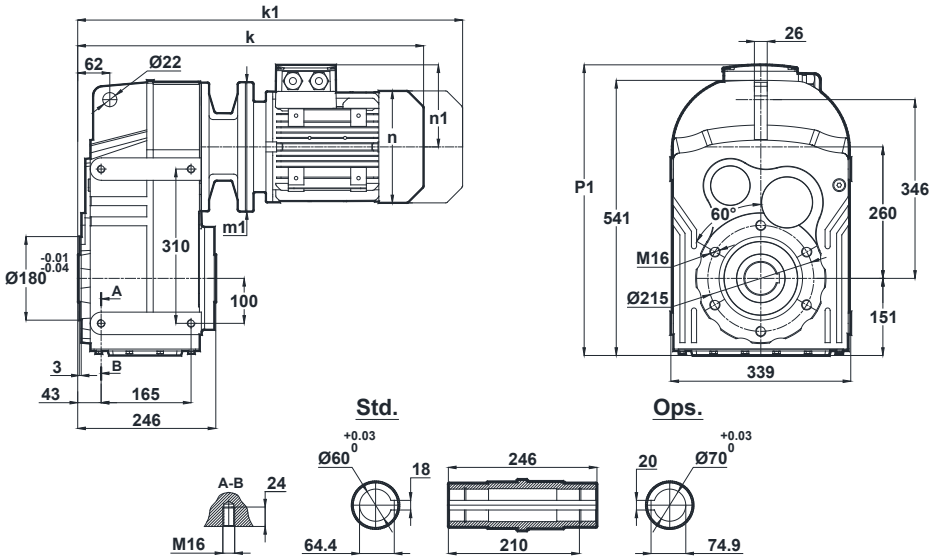
63-71
Type

Optional Flange Dimensions



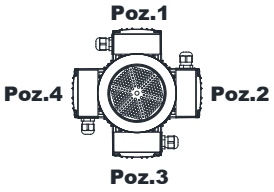
Please see on page 318 for other optional flange dimensions

DV572.00
DV573.00



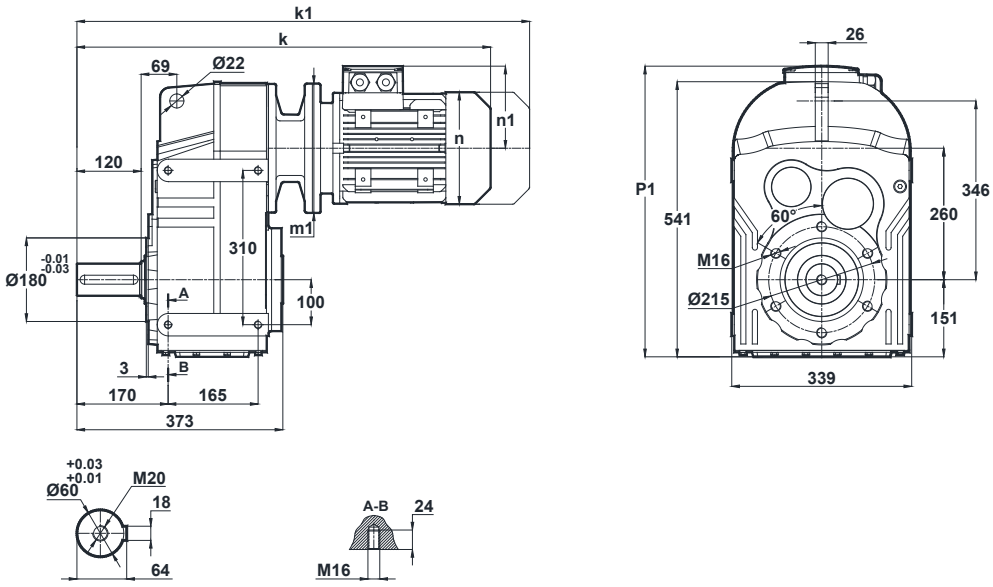
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	511	552	552	606	626	729	729	888	888	977	977
k1	604	656.5	656.5	725.5	730.5	859	859	1068	1068	1084.5	1084.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
p1	-	543	543	558	569	590	590	636	636	655	655

Terminal Box Positions



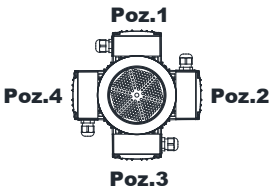
80-90-100-112-132-160-180
Type

DV572.01
DV573.01

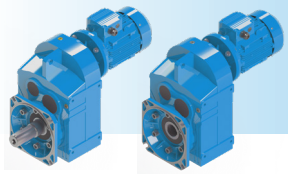


	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	638	679	679	733	753	856	856	1015	1015	1104	1104
k1	731	783.5	783.5	852.5	857.5	986	986	1195	1195	1274.5	1274.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
p1	-	543	543	558	569	590	590	636	636	655	655

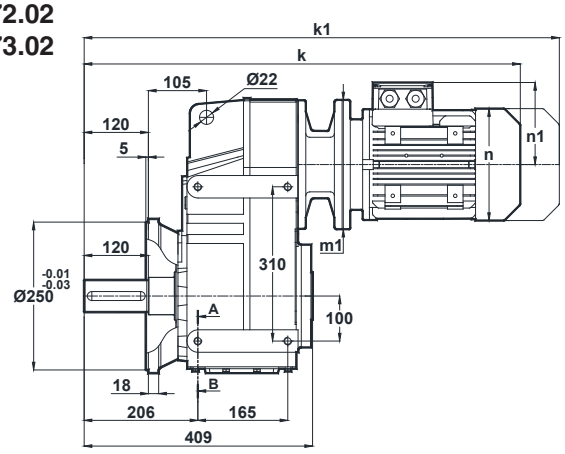
Terminal Box Positions

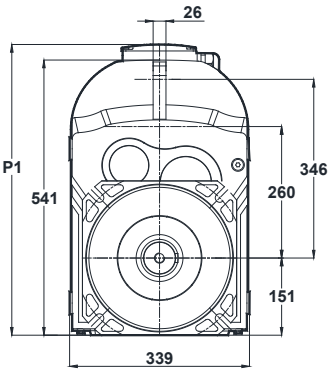


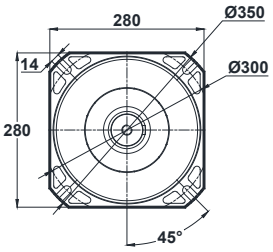
80-90-100-112-132-160-180
Type



DV572.02
DV573.02

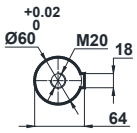


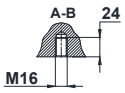


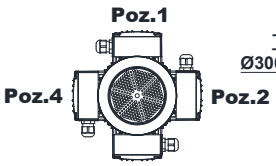


Terminal Box Positions

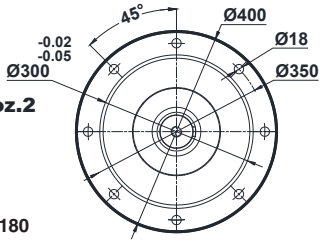
Optional Flange Dimensions







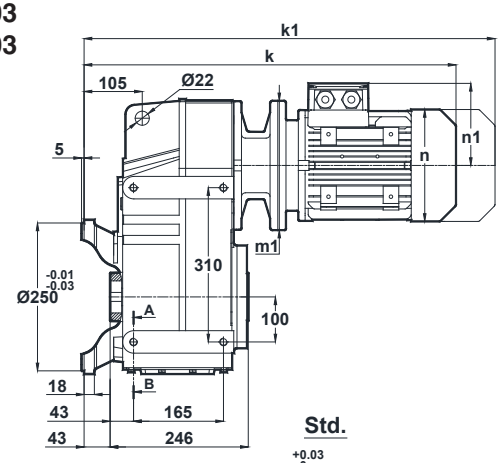
80-90-100-112-132-160-180
Type

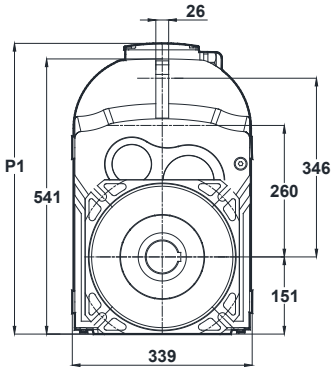


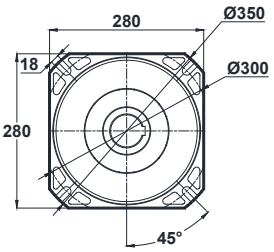
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	674	715	715	769	789	892	892	1051	1051	1140	1140
k1	767	819.5	819.5	888.5	893.5	1022	1022	1231	1231	1310.5	1310.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
p1	-	543	543	558	569	590	590	636	636	655	655

Please see on page 318 for other optional flange dimensions

DV572.03
DV573.03

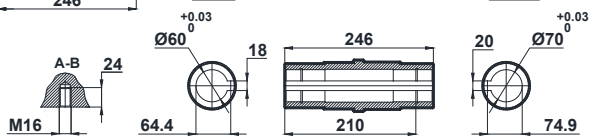






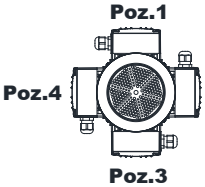
Std.

Ops.

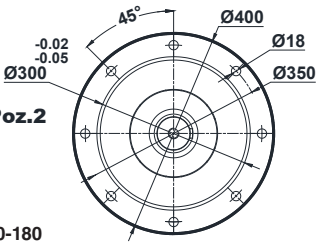


Terminal Box Positions

Optional Flange Dimensions



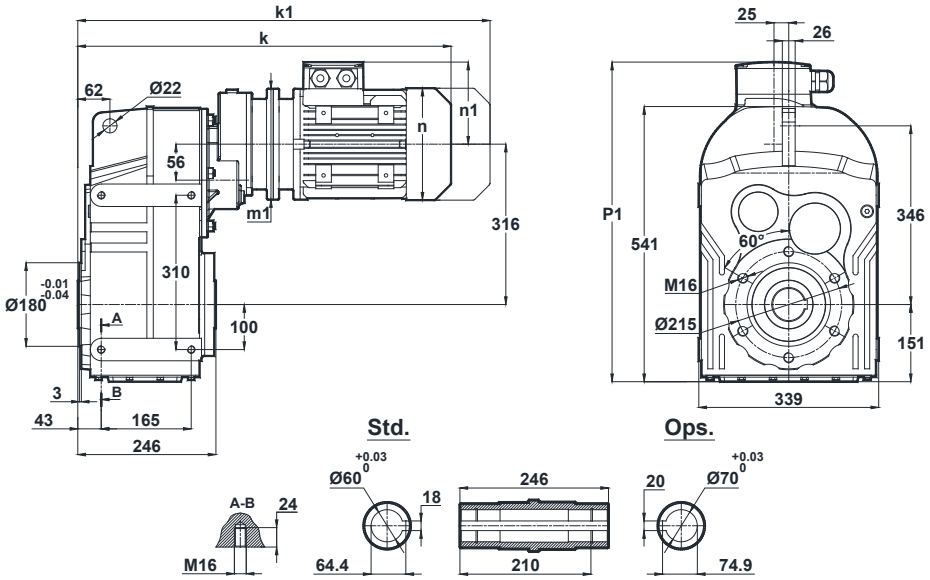
80-90-100-112-132-160-180
Type



	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	554	595	595	649	669	772	772	931	931	1020	1020
k1	647	699.5	699.5	768.5	773.5	902	902	1111	1111	1190.5	1190.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
p1	-	543	543	558	569	590	590	636	636	655	655

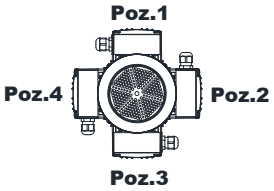
Please see on page 318 for other optional flange dimensions

DV574.00



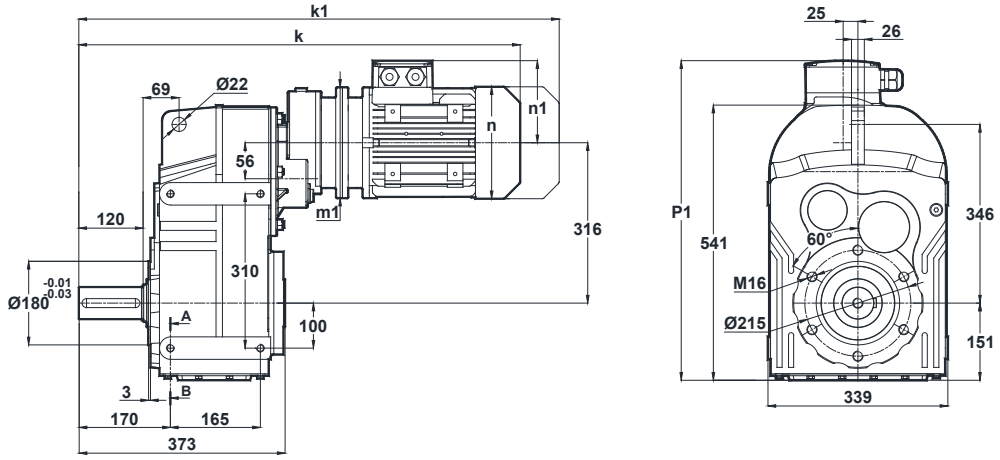
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	586	609	650	650
k1	677	702	754.5	754.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	579	588	599	599

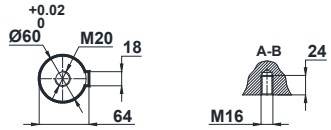
Terminal Box Positions



71-80-90
Type

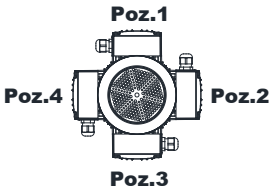
DV574.01



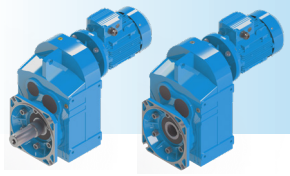


	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	713	736	777	777
k1	804	829	881.5	881.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	579	588	599	599

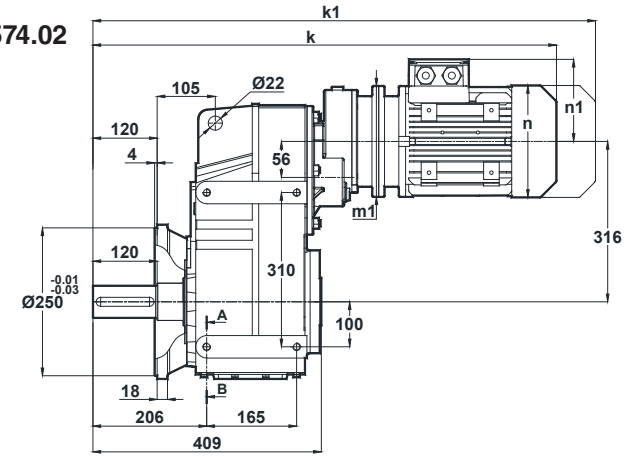
Terminal Box Positions

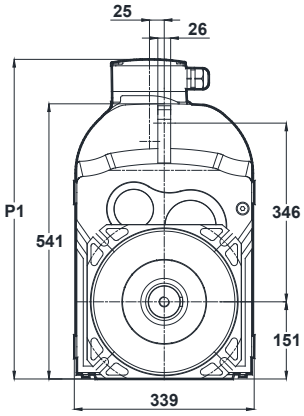


71-80-90
Type

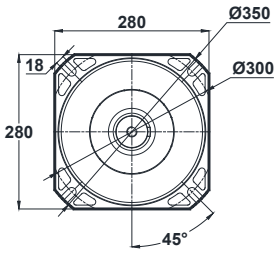


DV574.02

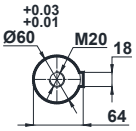


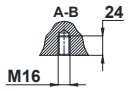


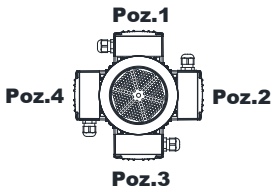
Terminal Box Positions



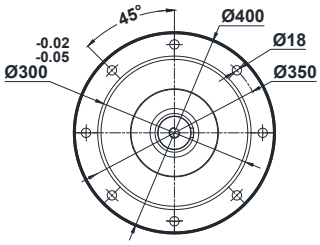
Optional Flange Dimensions







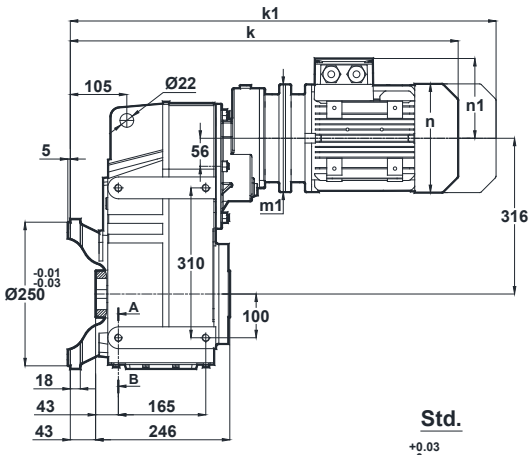
71-80-90 Type

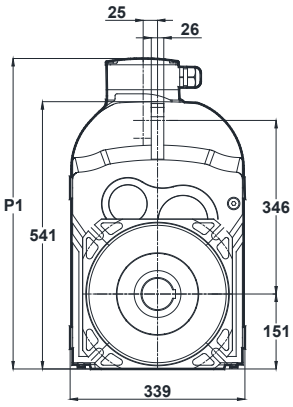


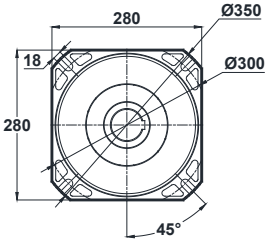
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	749	772	813	813
k1	840	865	917.5	917.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	579	588	599	599

Please see on page 318 for other optional flange dimensions

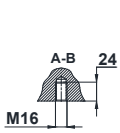
DV574.03

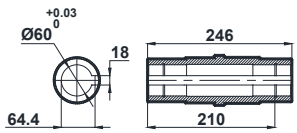




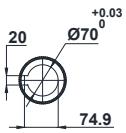


Std.





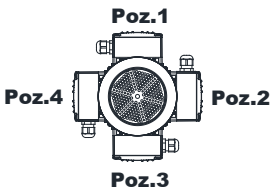
Ops.



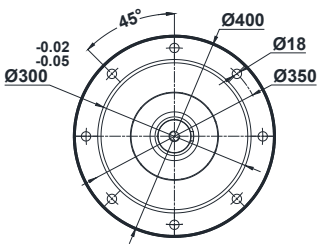
Terminal Box Positions

Optional Flange Dimensions

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	629	652	693	693
k1	720	745	797.5	797.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	579	588	599	599

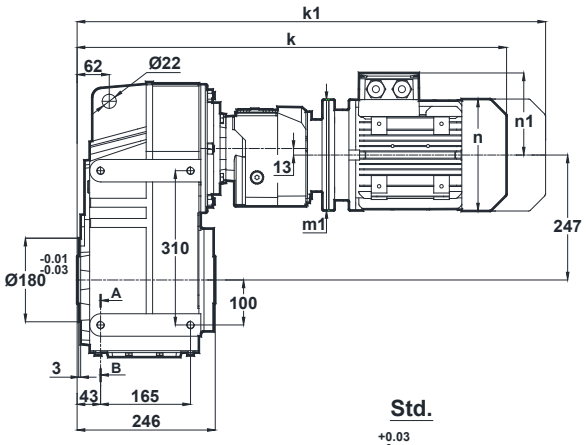


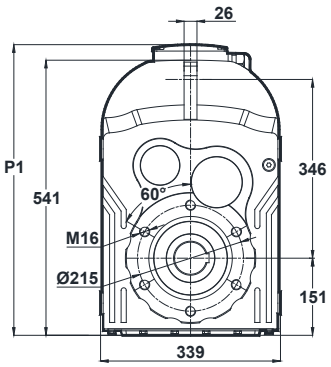
71-80-90 Type



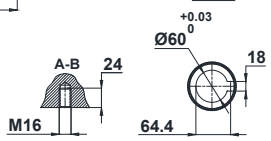
Please see on page 318 for other optional flange dimensions

DV575.00
DV576.00

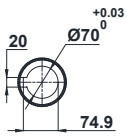




Std.

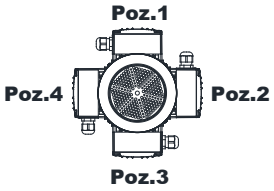


Ops.



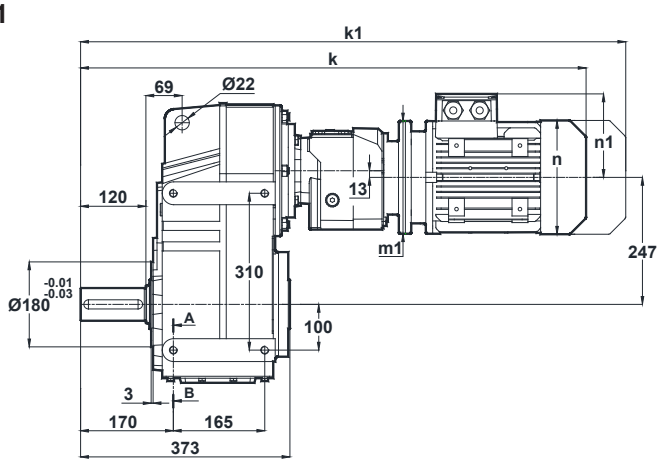
	63/B5	71/B5 71/B14
k	696	685
k1	757	776
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105
p1	-	-

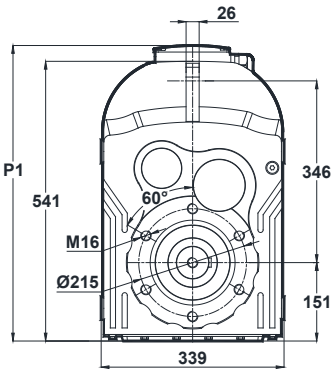
Terminal Box Positions

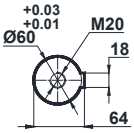


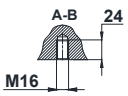
63-71
Type

DV575.01
DV576.01



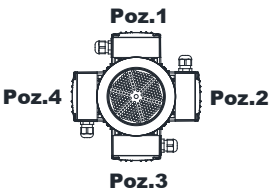




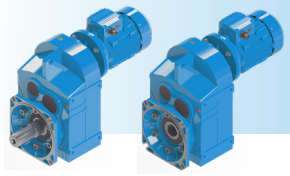


	63/B5	71/B5 71/B14
k	823	812
k1	884	903
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105
p1	-	-

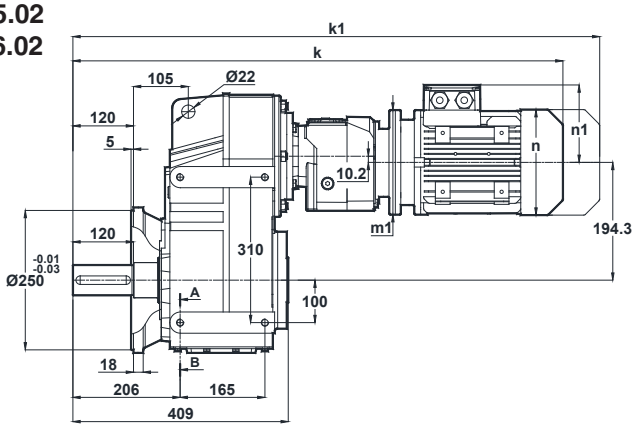
Terminal Box Positions

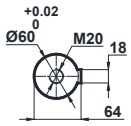


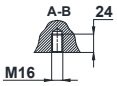
63-71
Type

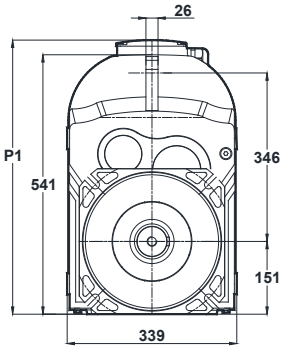


DV575.02
DV576.02

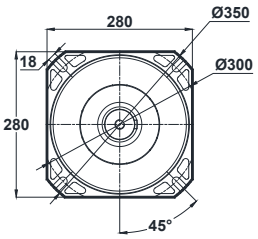




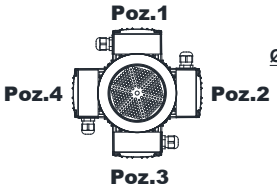




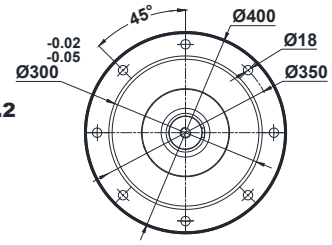
Terminal Box Positions



Optional Flange Dimensions



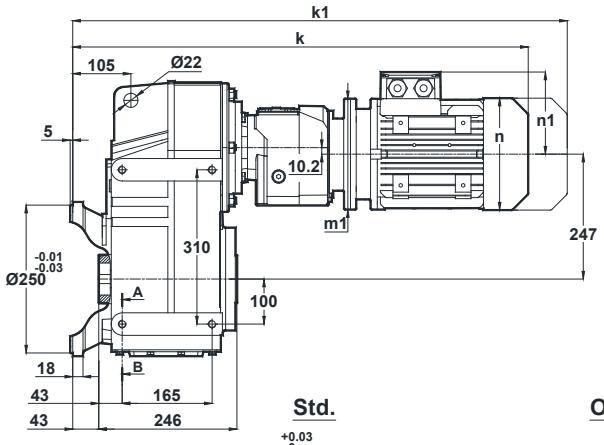
63-71
Type



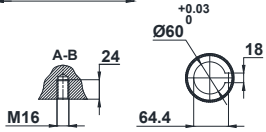
Please see on page 318 for other optional flange dimensions

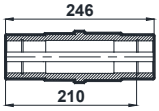
	63/B5	71/B5 71/B14
k	859	848
k1	920	939
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105
p1	-	-

DV575.03
DV576.03

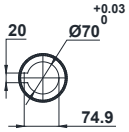


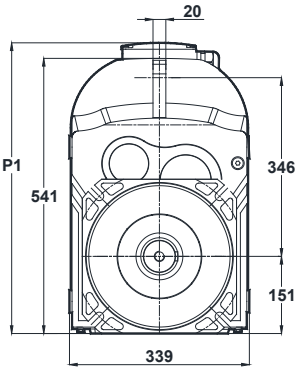
Std.



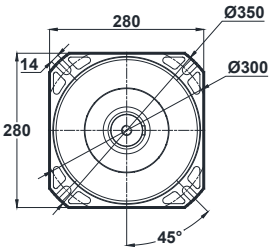


Ops.

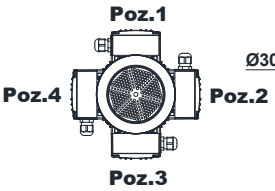




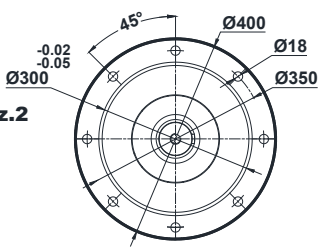
Terminal Box Positions



Optional Flange Dimensions



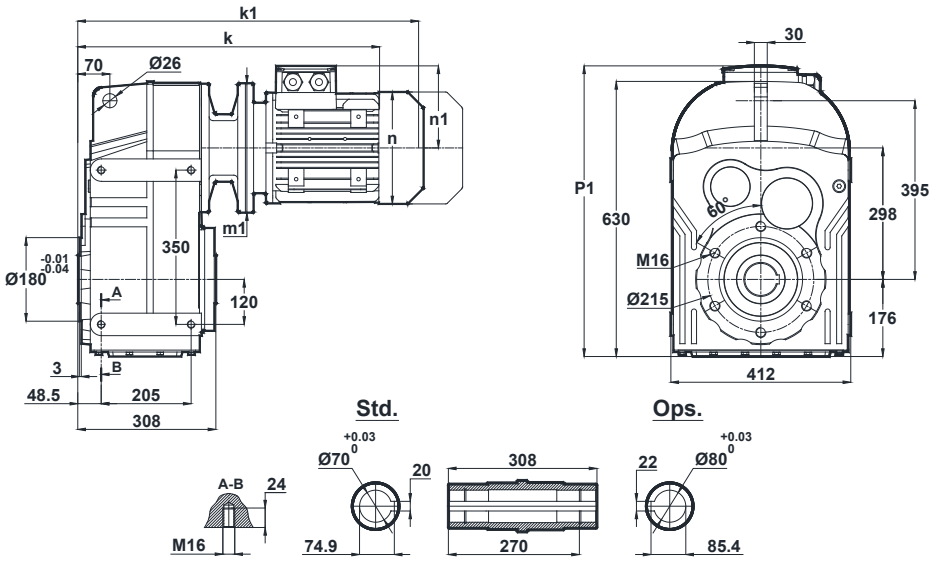
63-71
Type



Please see on page 318 for other optional flange dimensions

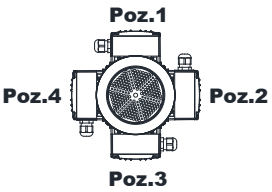
	63/B5	71/B5 71/B14
k	739	728
k1	800	819
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105
p1	-	-

DV672.00
DV673.00



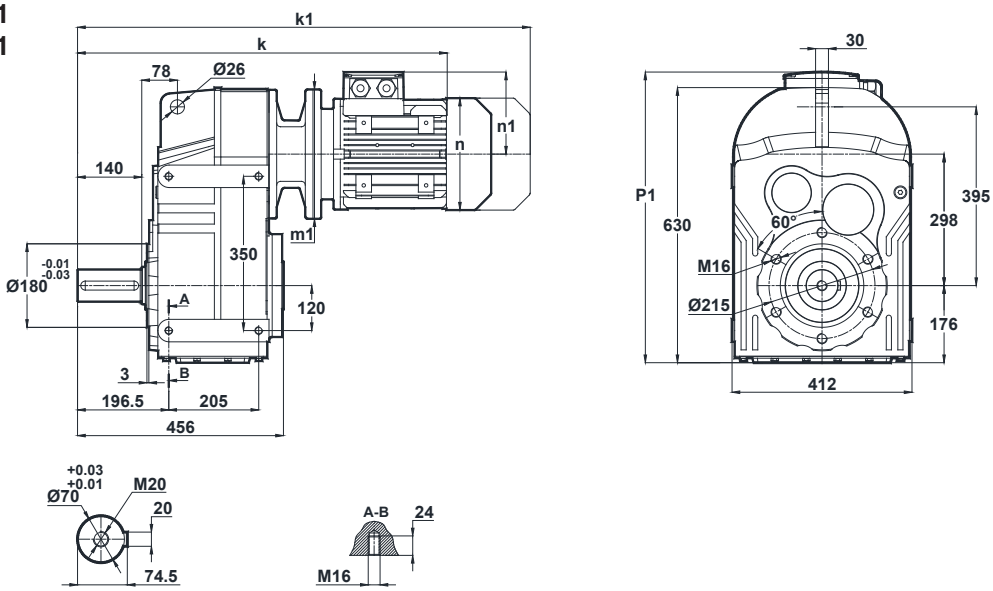
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5
k	658	679	784	784	939	939	1028	1028	1086
k1	777.5	783.5	914	914	1119	1119	1198.5	1198.5	1272.5
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275
m1 (B5)	250	250	300	300	350	350	350	350	400
m1 (B14)	-	-	200	200	-	-	-	-	-
p1	-	632	653	653	699	699	718	718	749

Terminal Box Positions



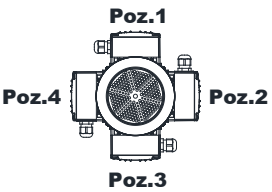
100-112-132-160-180-200
Type

DV672.01
DV673.01

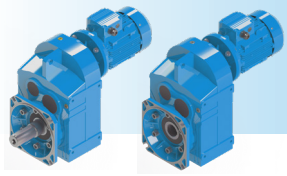


	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5
k	806	827	932	932	1087	1087	1176	1176	1234
k1	925.5	931.5	1062	1062	1267	1267	1346.5	1346.5	1420.5
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275
m1 (B5)	250	250	300	300	350	350	350	350	400
m1 (B14)	-	-	200	200	-	-	-	-	-
p1	-	632	653	653	699	699	718	718	749

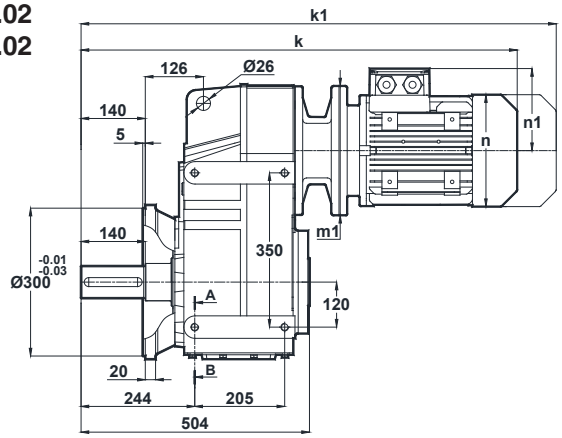
Terminal Box Positions

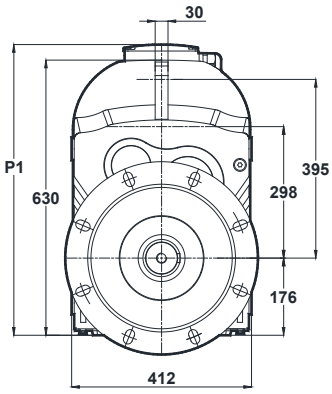


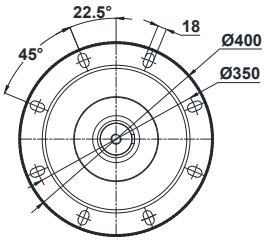
100-112-132-160-180-200
Type

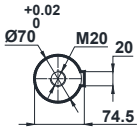


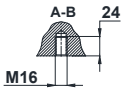
DV672.02
DV673.02





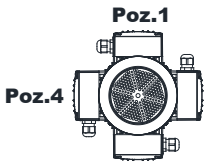




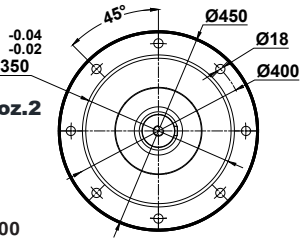


Terminal Box Positions

Optional Flange Dimensions



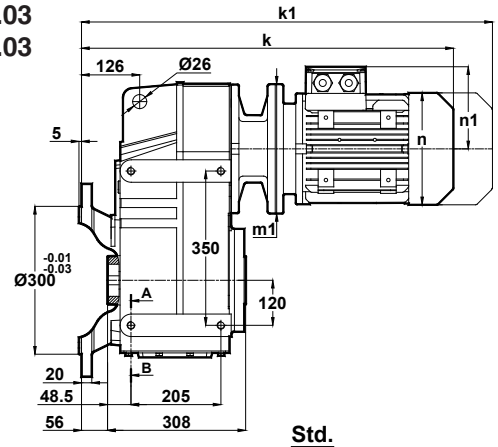
100-112-132-160-180-200
Type

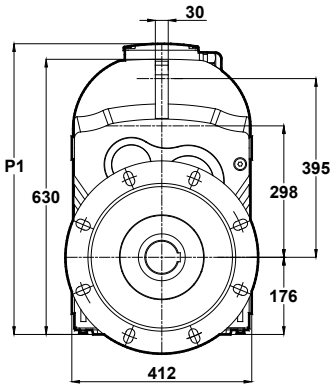


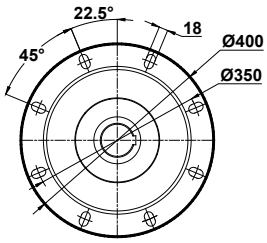
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5
k	854	875	980	980	1135	1135	1224	1224	1282
k1	973.5	979.5	1110	1110	1315	1315	1394.5	1394.5	1468.5
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275
m1 (B5)	250	250	300	300	350	350	350	350	400
m1 (B14)	-	-	200	200	-	-	-	-	-
p1	-	632	653	653	699	699	718	718	749

Please see on page 318 for other optional flange dimensions

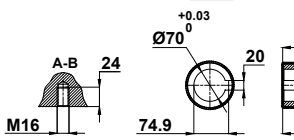
DV672.03
DV673.03



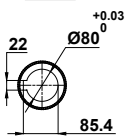




Std.

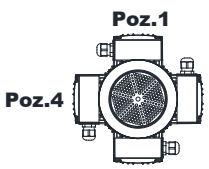


Ops.

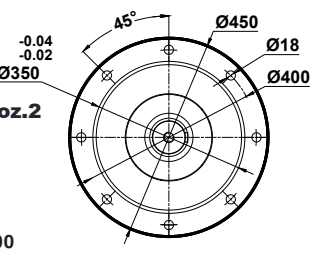


Terminal Box Positions

Optional Flange Dimensions



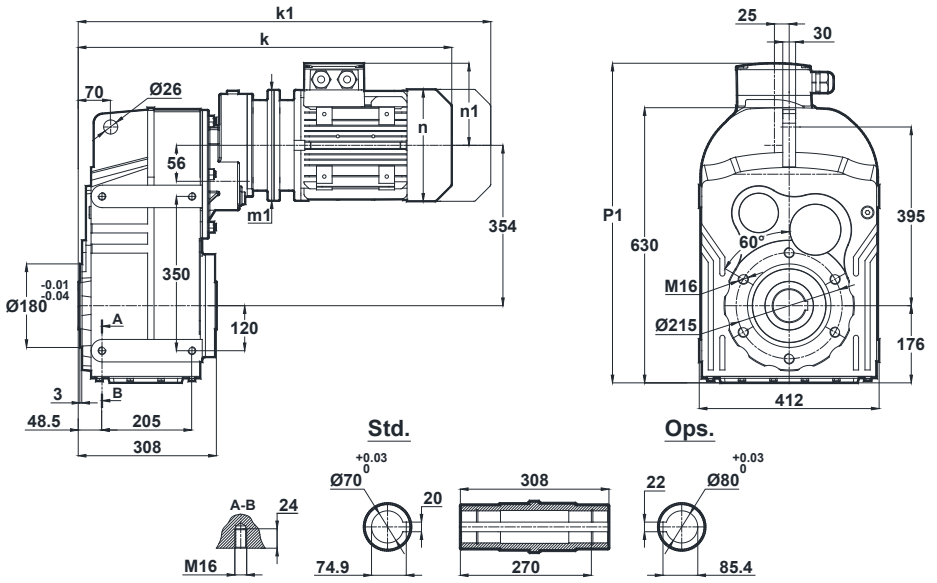
100-112-132-160-180-200
Type



	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5
k	714	735	840	840	995	995	1084	1084	1142
k1	833.5	839.5	970	970	1175	1175	1254.5	1254.5	1328.5
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275
m1 (B5)	250	250	300	300	350	350	350	350	400
m1 (B14)	-	-	200	200	-	-	-	-	-
p1	-	632	653	653	699	699	718	718	749

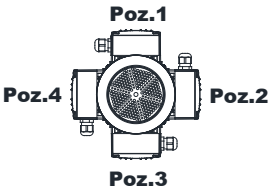
Please see on page 318 for other optional flange dimensions

DV674.00



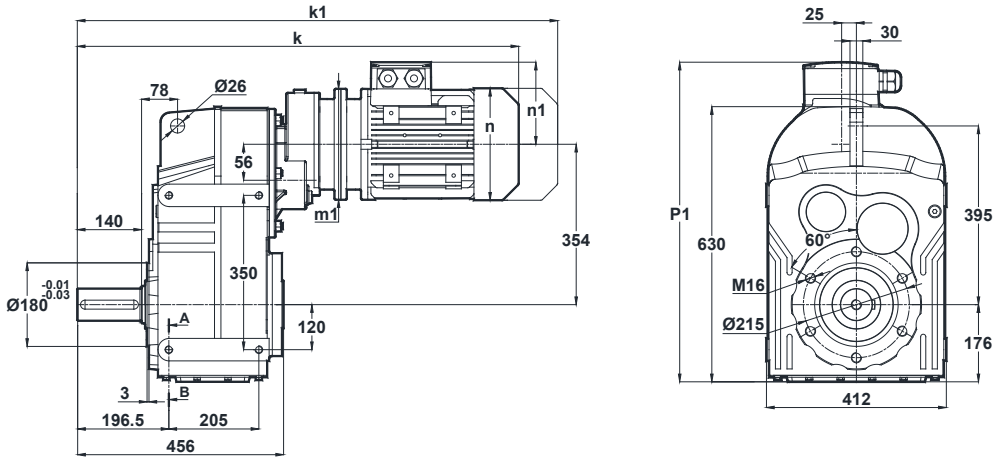
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	639	662	703	703
k1	730	755	807.5	807.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	642	651	662	662

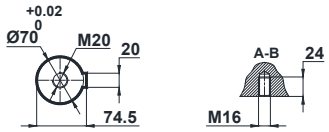
Terminal Box Positions



71-80-90
Type

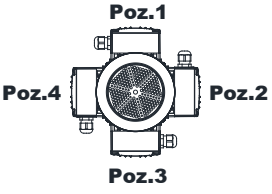
DV674.01





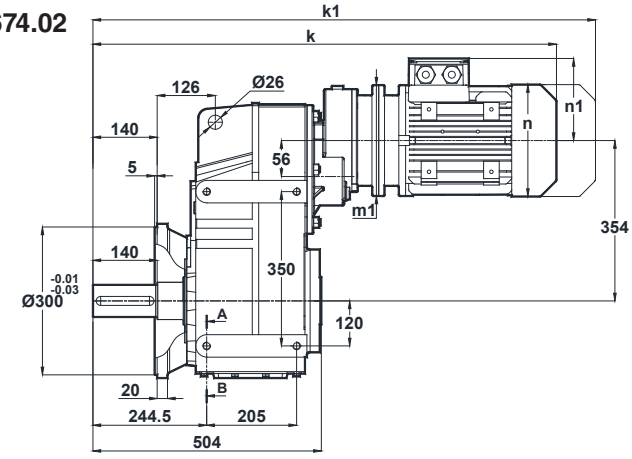
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	787	810	851	851
k1	878	903	955.5	955.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	642	651	662	662

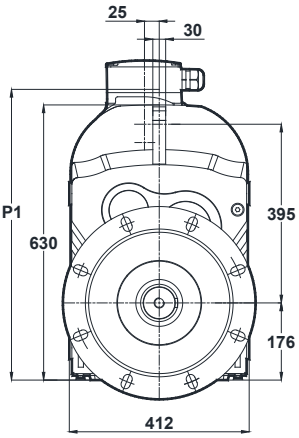
Terminal Box Positions

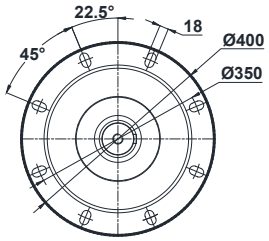


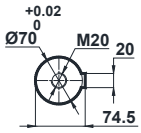
71-80-90
Type

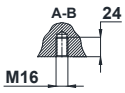
DV674.02



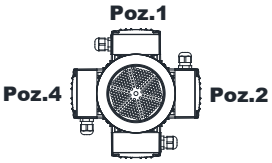






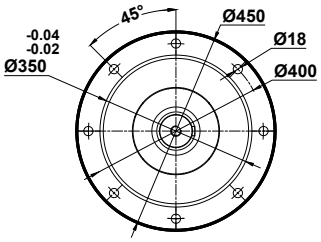


Terminal Box Positions



71-80-90
Type

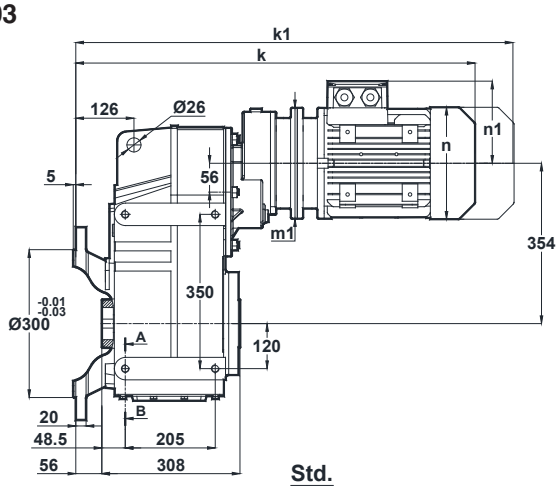
Optional Flange Dimensions

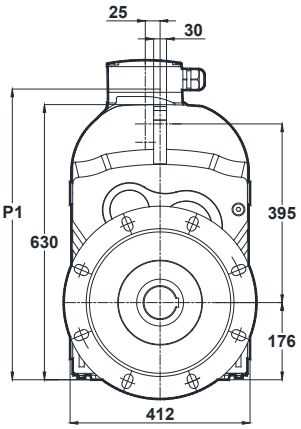


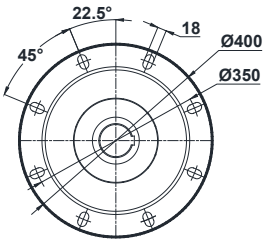
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	835	858	899	899
k1	926	951	1003.5	1003.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	642	651	662	662

Please see on page 318 for other optional flange dimensions

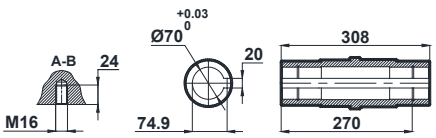
DV674.03



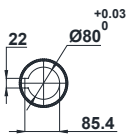




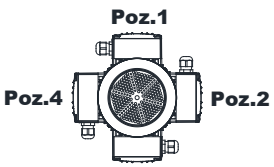
Std.



Ops.

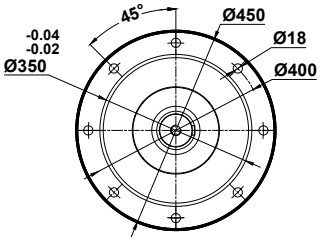


Terminal Box Positions



71-80-90
Type

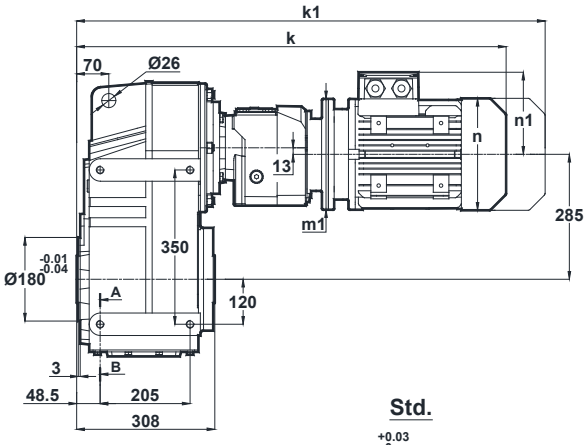
Optional Flange Dimensions

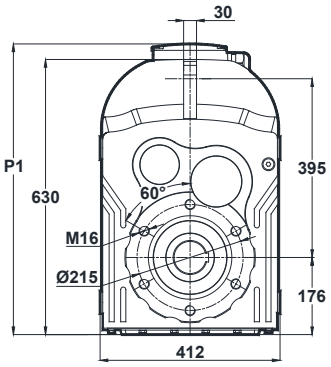


	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	695	718	759	759
k1	786	811	863.5	863.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	642	651	662	662

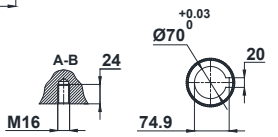
Please see on page 318 for other optional flange dimensions

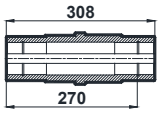
DV675.00
DV676.00



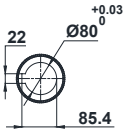


Std.



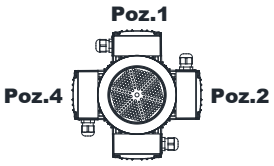


Ops.



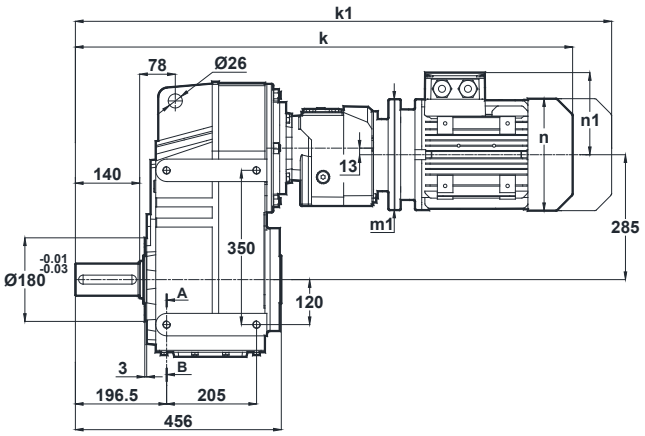
	63/B5	71/B5 71/B14	80/B5 80/B14
k	751	740	792
k1	812	831	885
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	-	-	-

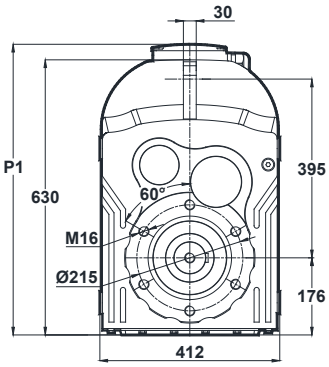
Terminal Box Positions

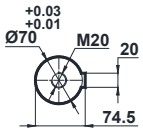


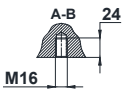
63-71-80
Type

DV675.01
DV676.01



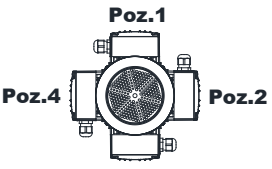




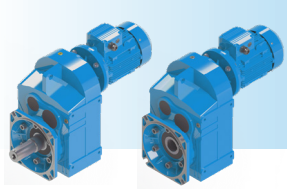


	63/B5	71/B5 71/B14	80/B5 80/B14
k	899	888	940
k1	960	979	1033
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	-	-	-

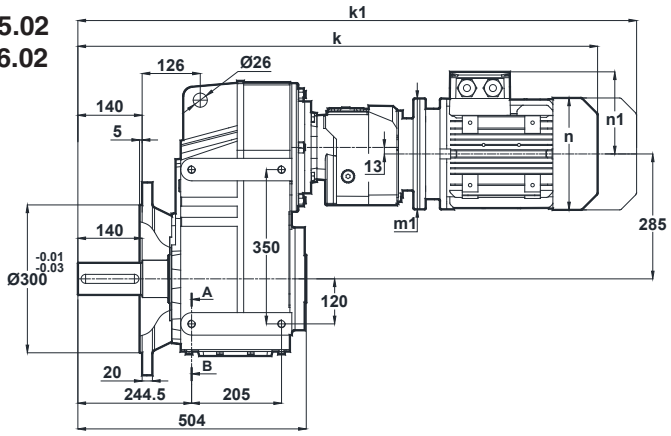
Terminal Box Positions

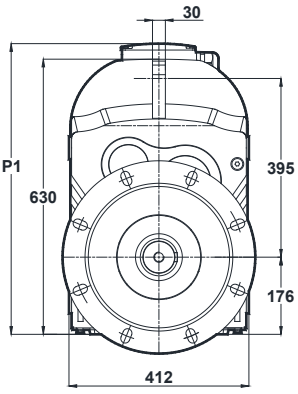


63-71-80
Type

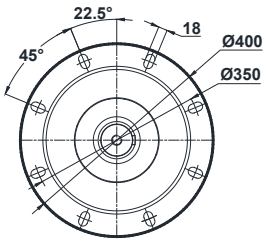


DV675.02
DV676.02

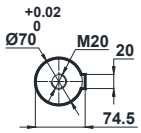


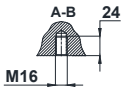


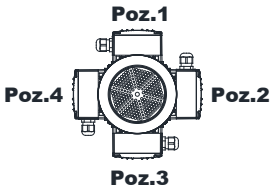
Terminal Box Positions



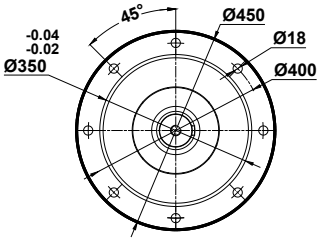
Optional Flange Dimensions







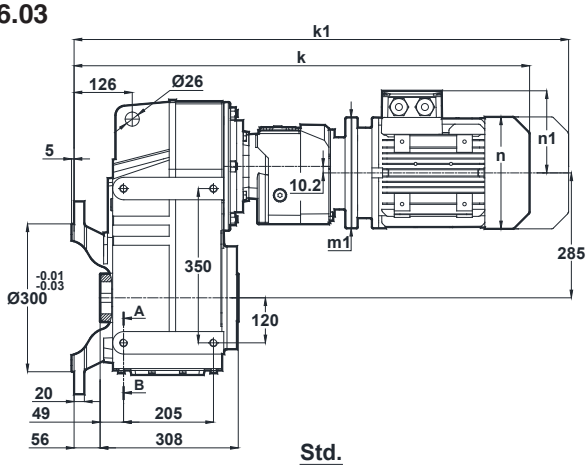
63-71-80
Type

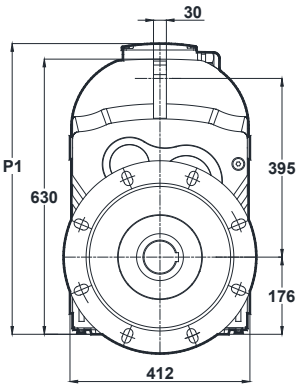


	63/B5	71/B5 71/B14	80/B5 80/B14
k	947	936	988
k1	1008	1027	1081
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	-	-	-

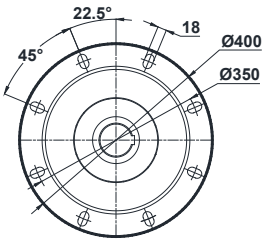
Please see on page 318 for other optional flange dimensions

DV675.03
DV676.03



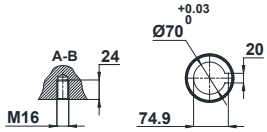


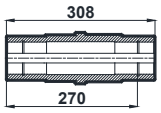
Terminal Box Positions



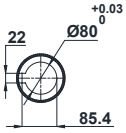
Optional Flange Dimensions

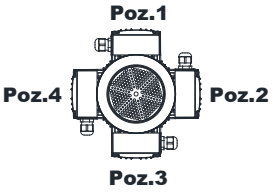
Std.



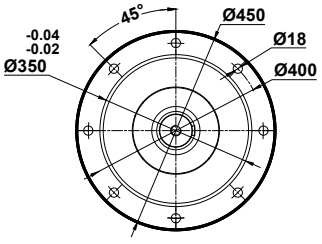


Ops.





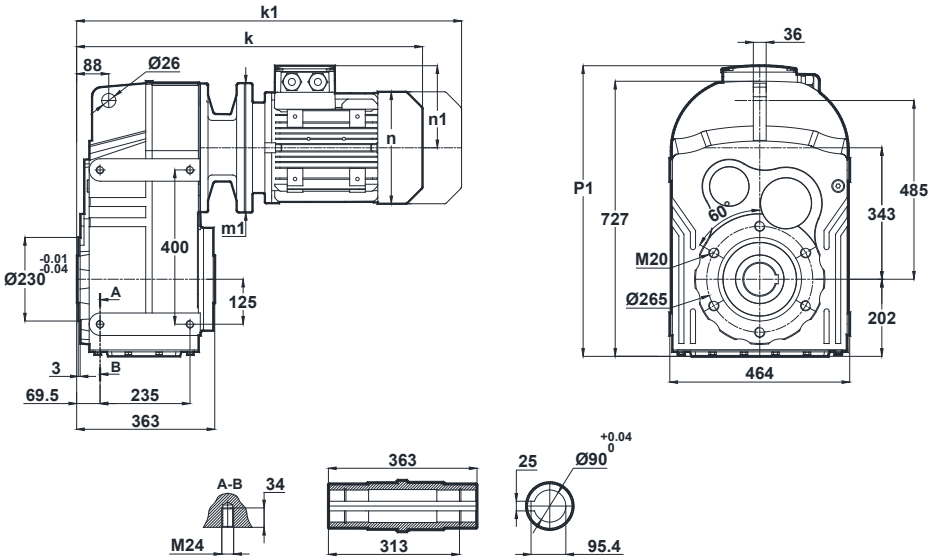
63-71-80
Type



	63/B5	71/B5 71/B14	80/B5 80/B14
k	807	796	848
k1	868	887	941
n / n1	121 / 97	137 / 112	155 / 121
m1 (B5)	140	160	200
m1 (B14)	-	105	120
p1	-	-	-

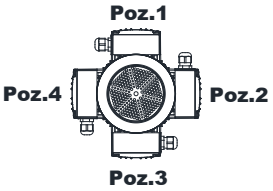
Please see on page 318 for other optional flange dimensions

DV772.00
DV773.00



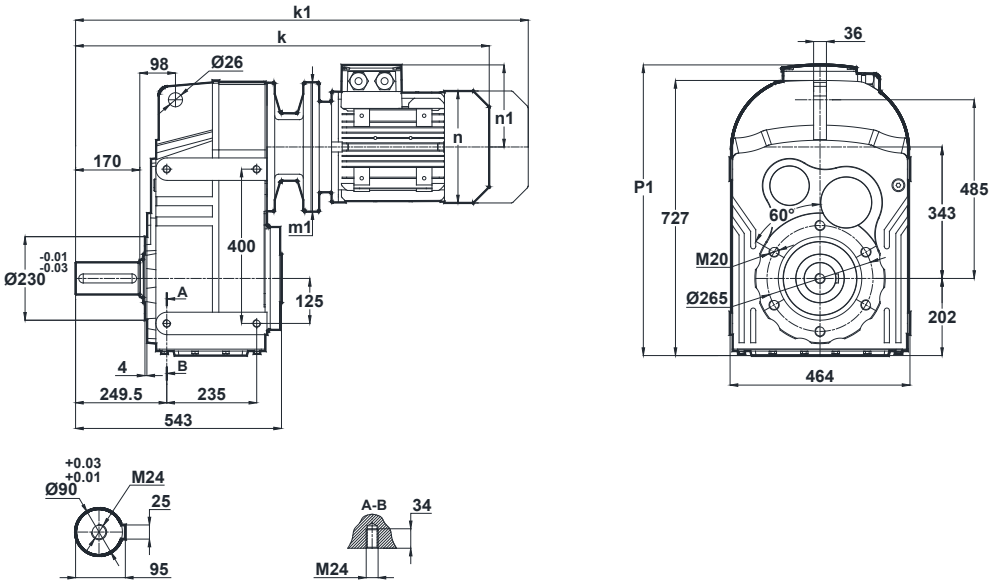
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	700	721	820	820	974	974	1064	1064	1122	1208	1233
k1	819.5	825.5	950	950	1154	1154	1234.5	1234.5	1308.5	1373	1398
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-
p1	-	-	724	724	770	770	789	789	822	830	830

Terminal Box Positions



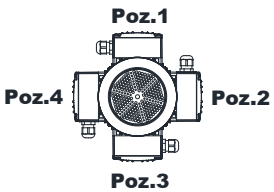
100-112-132-160-180-200-225
Type

DV772.01
DV773.01

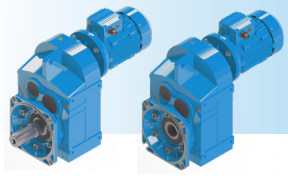


	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	880	901	1000	1000	1154	1154	1244	1244	1302	1388	1413
k1	999.5	1005.5	1130	1130	1334	1334	1414.5	1414.5	1488.5	1553	1578
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-
p1	-	-	724	724	770	770	789	789	822	830	830

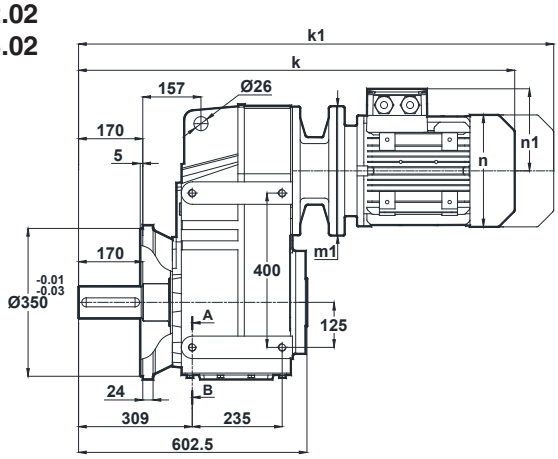
Terminal Box Positions

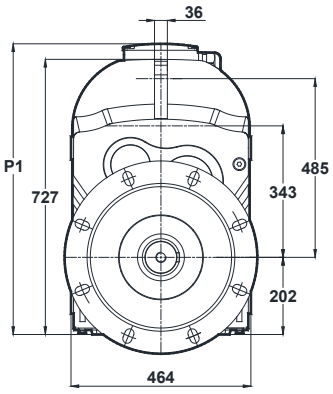


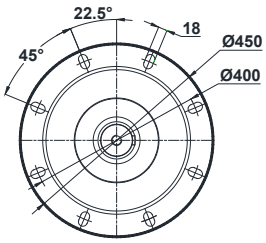
100-112-132-160-180-200-225
Type



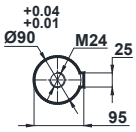
DV772.02
DV773.02

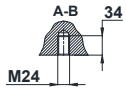




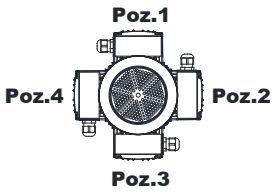


Please see on page 318 for optional flange dimensions





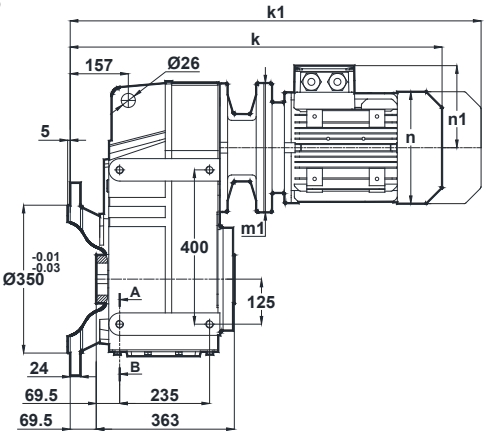
Terminal Box Positions

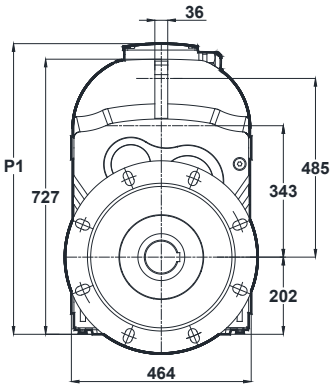


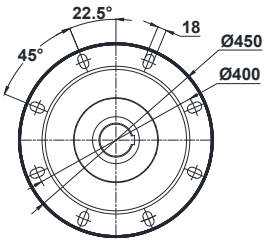
100-112-132-160-180-200-225
Type

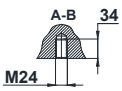
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	940	961	1060	1060	1214	1214	1304	1304	1362	1448	1473
k1	1059.5	1065.5	1190	1190	1394	1394	1474.5	1474.5	1548.5	1613	1638
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-
p1	-	-	724	724	770	770	789	789	822	830	830

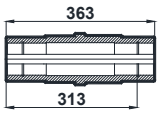
DV772.03
DV773.03

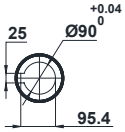




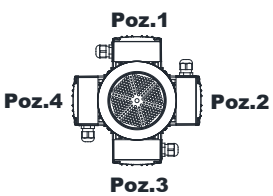








Terminal Box Positions

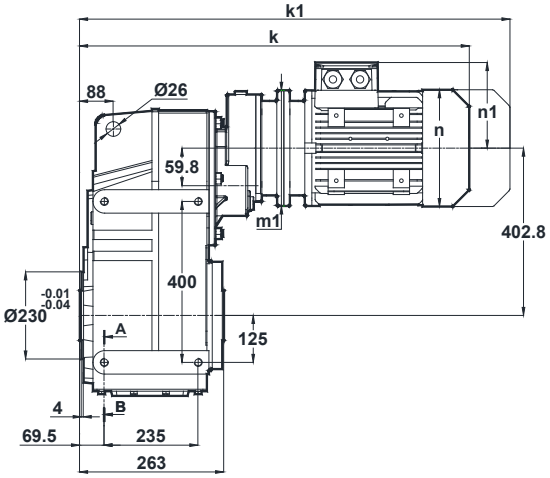


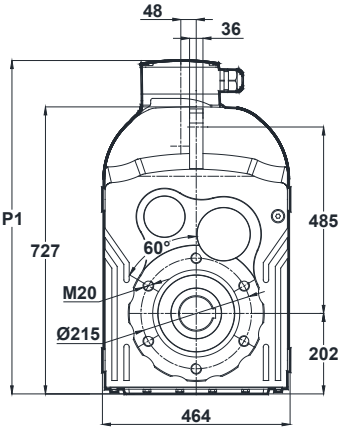
100-112-132-160-180-200-225
Type

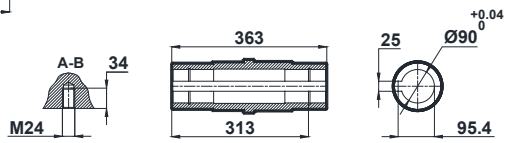
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	770	791	890	890	1044	1044	1134	1134	1192	1278	1303
k1	889.5	895.5	1020	1020	1224	1224	1304.5	1304.5	1378.5	1443	1468
n / n1	193 / 147	215 / 158	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-
p1	-	-	724	724	770	770	789	789	822	830	830

Please see on page 318 for optional flange dimensions

DV774.00

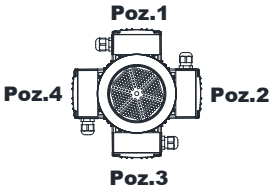






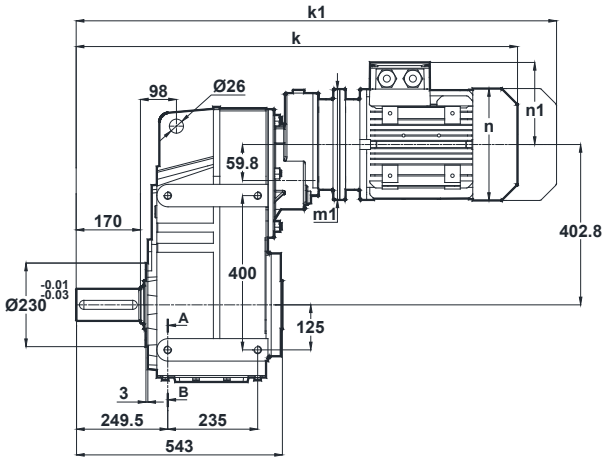
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	714	755	755	809
k1	807	859.5	859.5	928.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	737	737	752

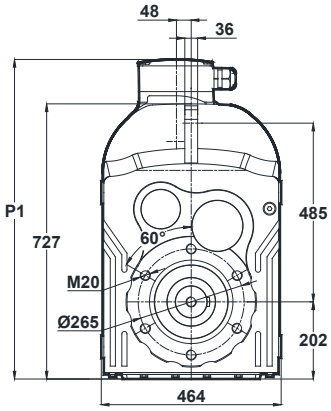
Terminal Box Positions

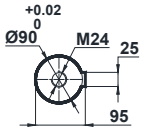


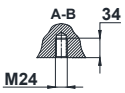
80-90-100
Type

DV774.01



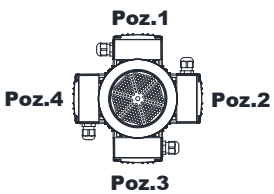






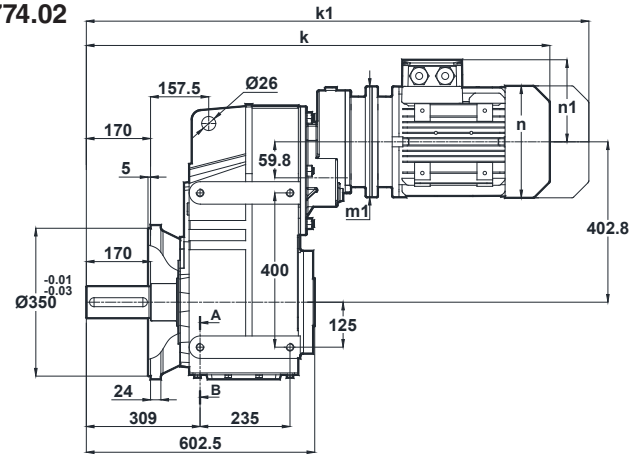
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	894	935	935	989
k1	987	1039.5	1039.5	1108.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	737	737	752

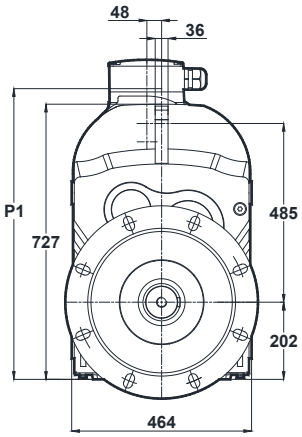
Terminal Box Positions

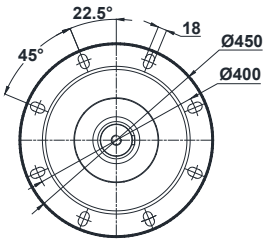


80-90-100
Type

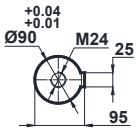
DV774.02

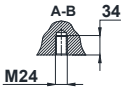


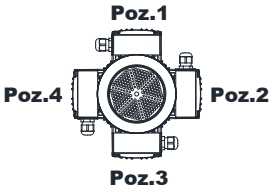




Terminal Box Positions





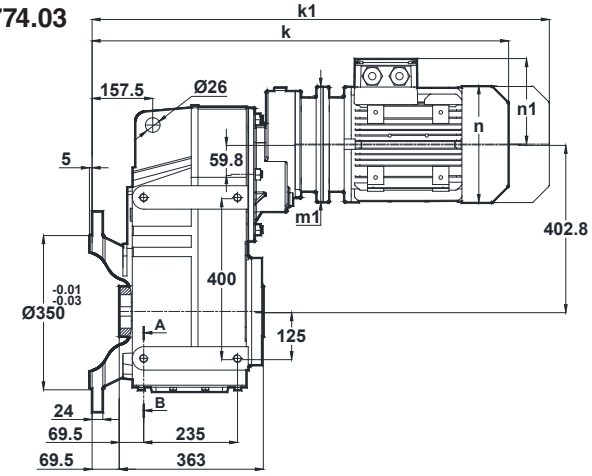


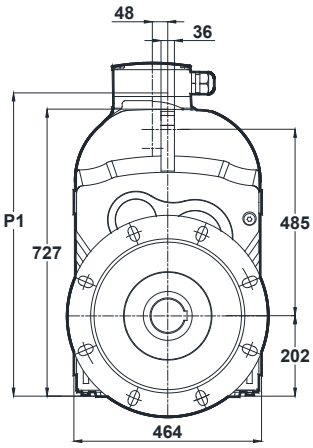
80-90-100 Type

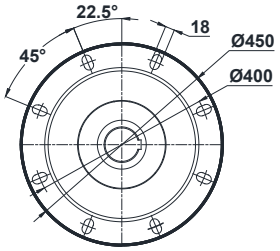
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	954	995	995	1049
k1	1047	1099.5	1099.5	1168.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	737	737	752

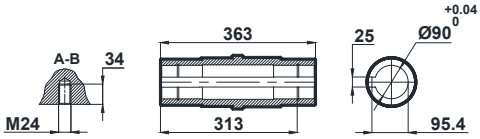
Please see on page 318 for optional flange dimensions

DV774.03

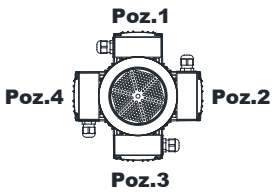








Terminal Box Positions

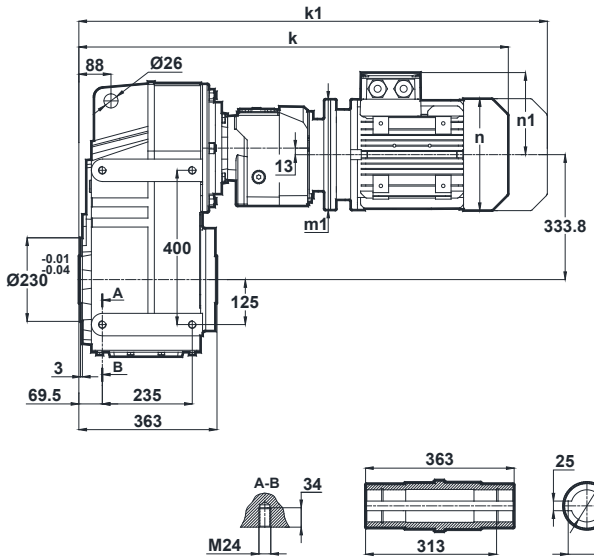


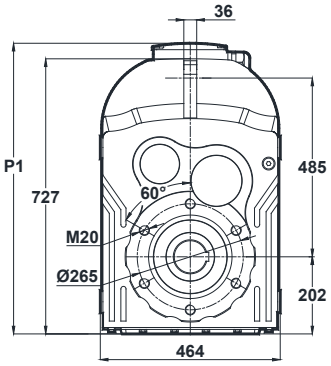
80-90-100 Type

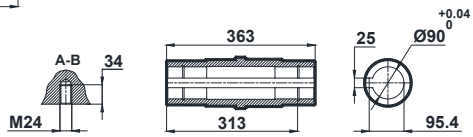
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	784	825	825	879
k1	877	929.5	929.5	998.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	737	737	752

Please see on page 318 for optional flange dimensions

DV775.00
DV776.00

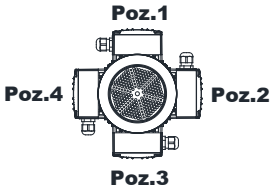






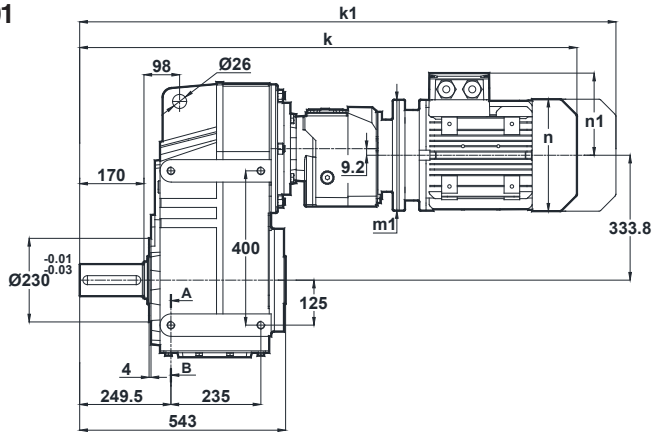
Terminal Box Positions

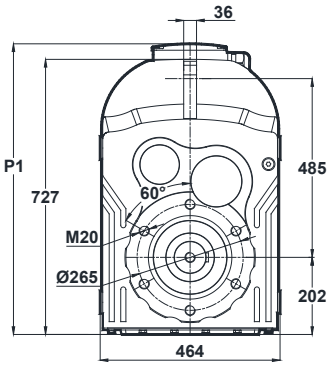
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	841	864	905	905
k1	932	957	1009.5	1009.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	-	-	-	-

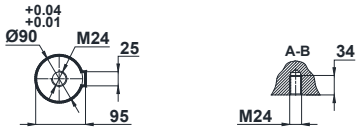


71-80-90
Type

DV775.01
DV776.01

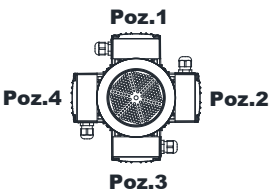




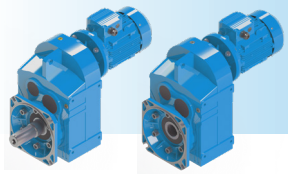


Terminal Box Positions

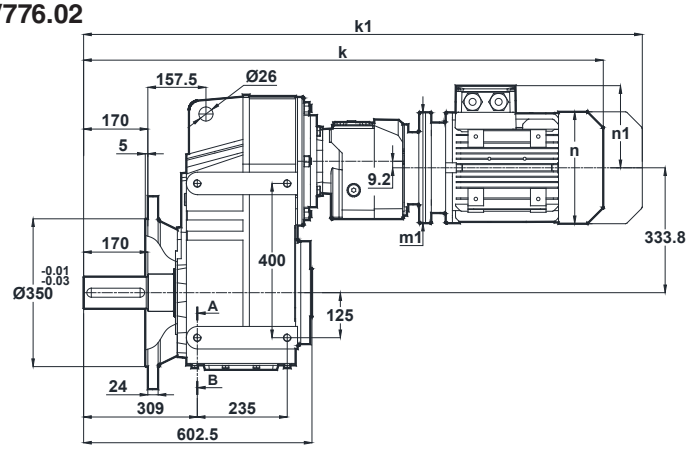
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1021	1044	1085	1085
k1	1112	1137	1189.5	1189.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	-	-	-	-

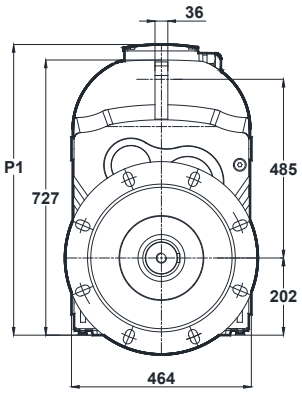


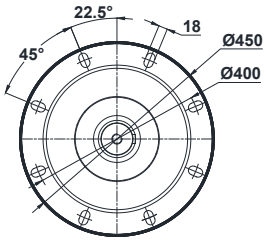
71-80-90
Type



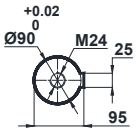
DV775.02
DV776.02

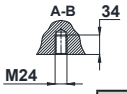


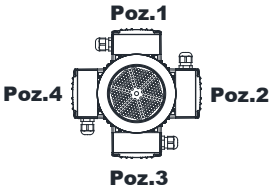




Terminal Box Positions





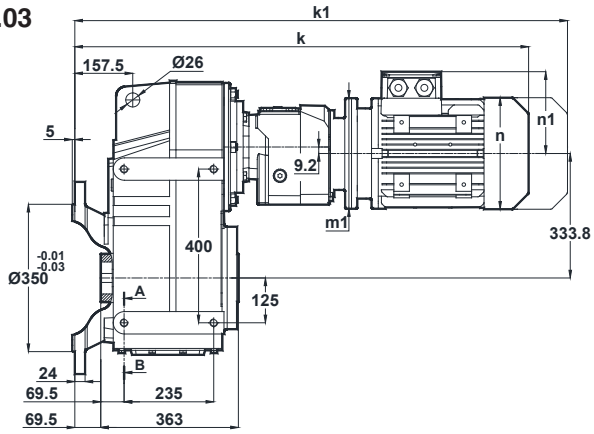


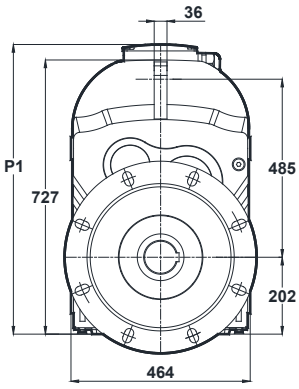
71-80-90 Type

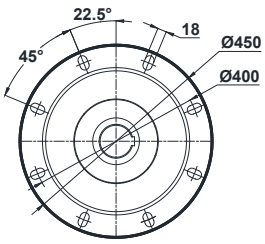
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1081	1104	1145	1145
k1	1172	1197	1249.5	1249.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	-	-	-	-

Please see on page 318 for optional flange dimensions

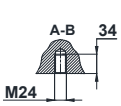
DV775.03
DV776.03

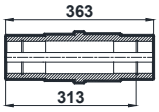


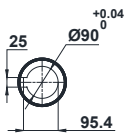


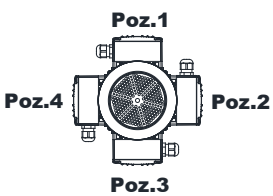


Terminal Box Positions





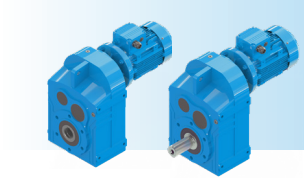




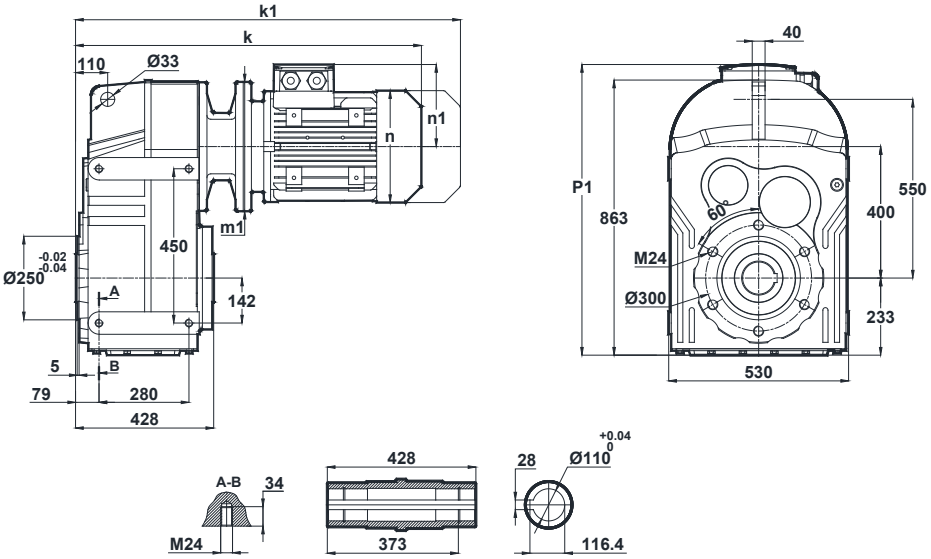
71-80-90 Type

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	911	934	975	975
k1	1002	1027	1079.5	1079.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140
p1	-	-	-	-

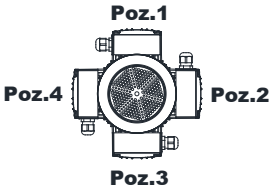
Please see on page 318 for optional flange dimensions



DV872.00
DV873.00



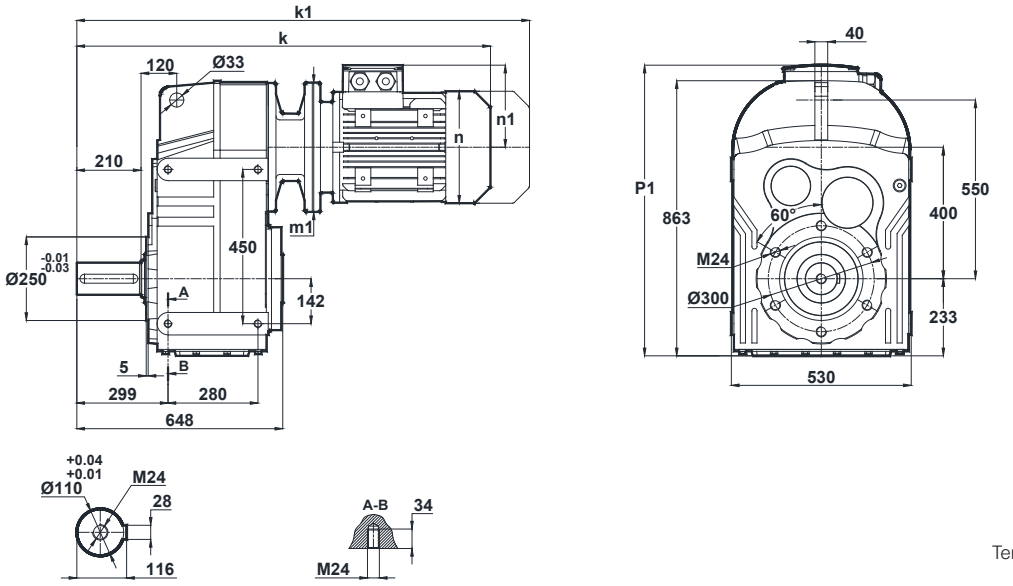
Terminal Box Positions



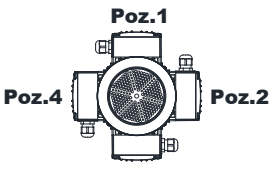
132-160-180-200-225-250-280
Type

	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	872	872	1097	1097	1186	1186	1224	1257	1282	1358	1420	1420
k1	1002	1002	1277	1277	1356.5	1356.5	1410.5	1422	1447	1528.5	1593	1599
n / n1	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
p1	-	-	-	-	877	877	908	918	918	955	983	983

DV872.01
DV873.01

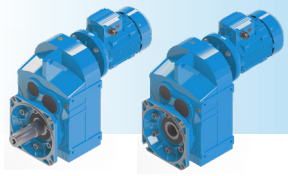


Terminal Box Positions

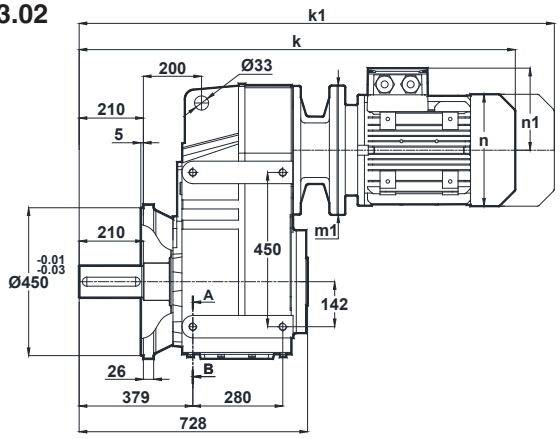


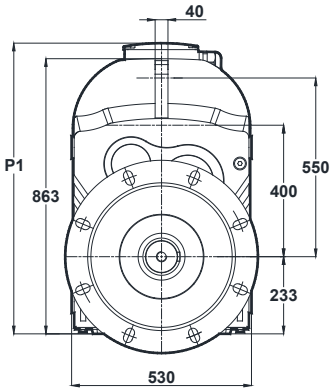
132-160-180-200-225-250-280
Type

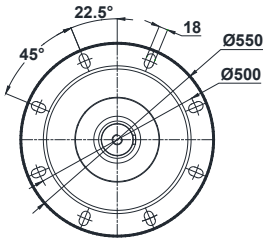
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1092	1092	1317	1317	1406	1406	1444	1477	1502	1578	1640	1640
k1	1222	1222	1497	1497	1576.5	1576.5	1630.5	1642	1667	1748.5	1813	1819
n / n1	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
p1	-	-	-	-	877	877	908	918	918	955	983	983



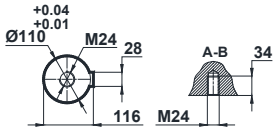
DV872.02
DV873.02





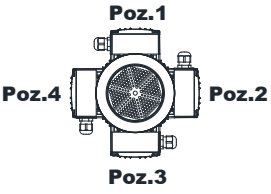


Please see on page 318 for optional flange dimensions



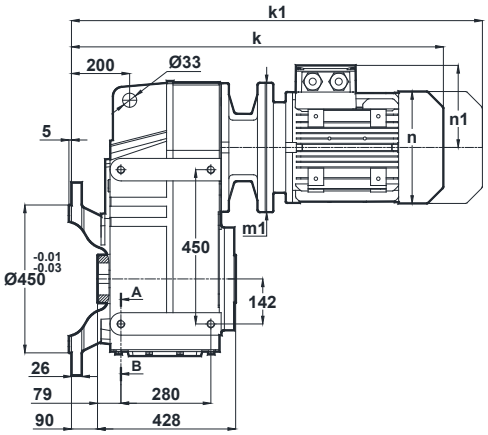
Terminal Box Positions

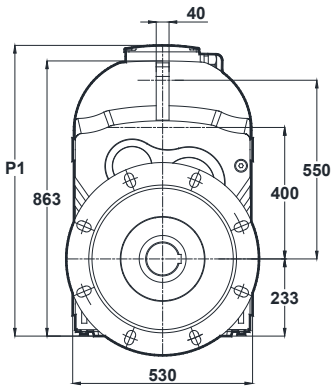
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1172	1172	1397	1397	1486	1486	1524	1557	1582	1658	1720	1720
k1	1302	1302	1577	1577	1656.5	1656.5	1710.5	1722	1747	1828.5	1893	1899
n / n1	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
p1	-	-	-	-	877	877	908	918	918	955	983	983

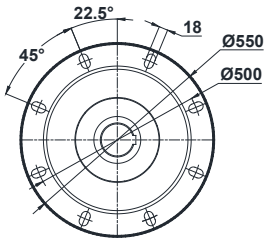


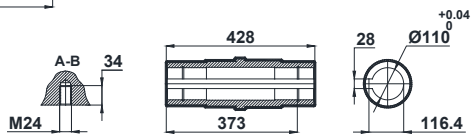
132-160-180-200-225-250-280
Type

DV872.03
DV873.03



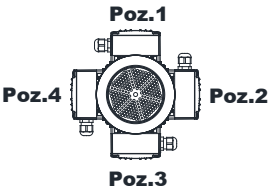






Terminal Box Positions

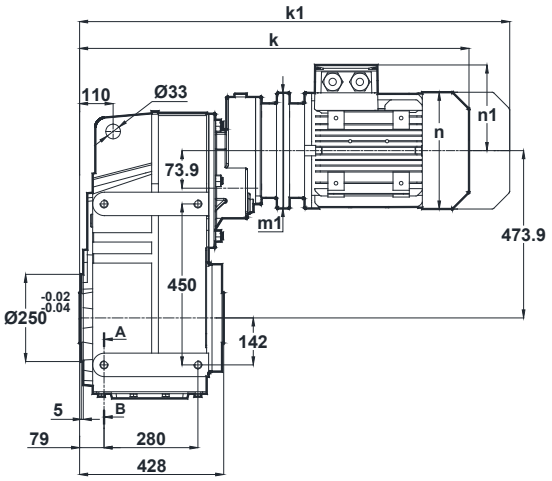
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	962	962	1187	1187	1276	1276	1314	1347	1372	1448	1510	1510
k1	1092	1092	1367	1367	1446.5	1446.5	1500.5	1512	1537	1618.5	1683	1689
n / n1	257 / 179	257 / 179	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
p1	-	-	-	-	877	877	908	918	918	955	983	983

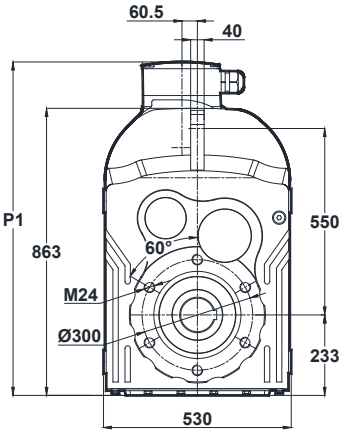


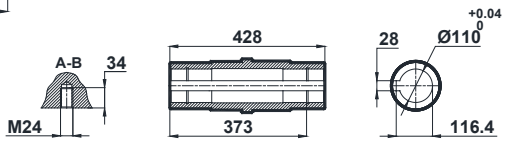
132-160-180-200-225-250-280
Type

Please see on page 318 for optional flange dimensions

DV874.00

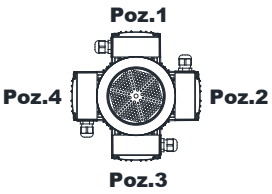






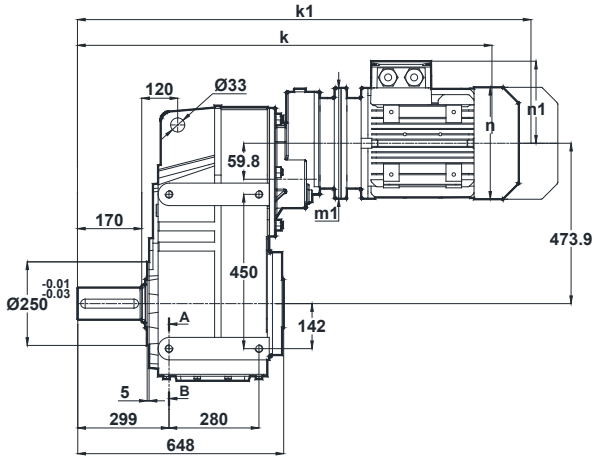
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	885	906	1011	1011
k1	1004.5	1010.5	1141	1141
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	886	886

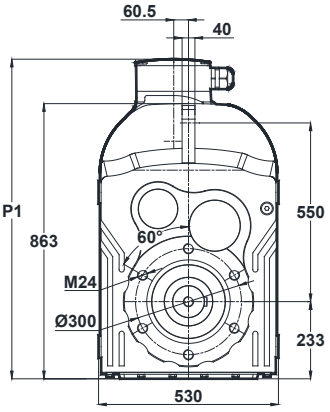
Terminal Box Positions

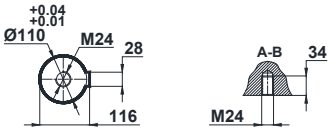


100-112-132 Type

DV874.01

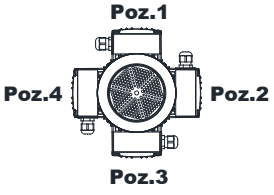






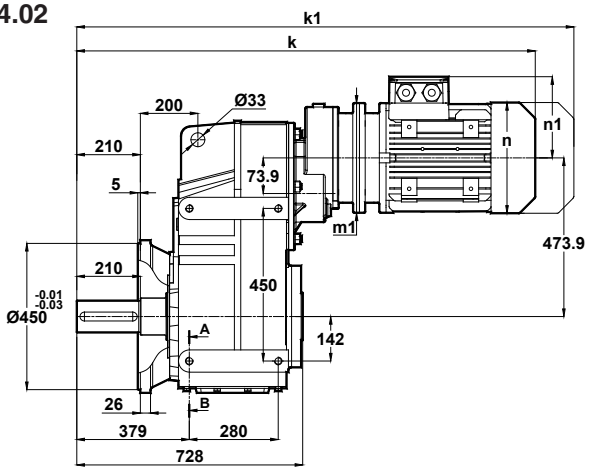
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	1105	1126	1231	1231
k1	1224.5	1230.5	1361	1361
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	886	886

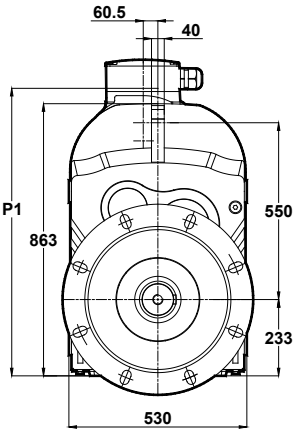
Terminal Box Positions

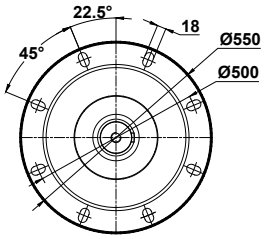


100-112-132 Type

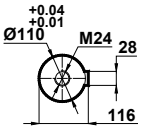
DV874.02

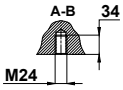




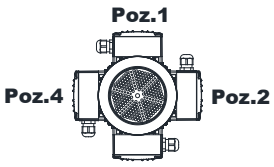


Terminal Box Positions





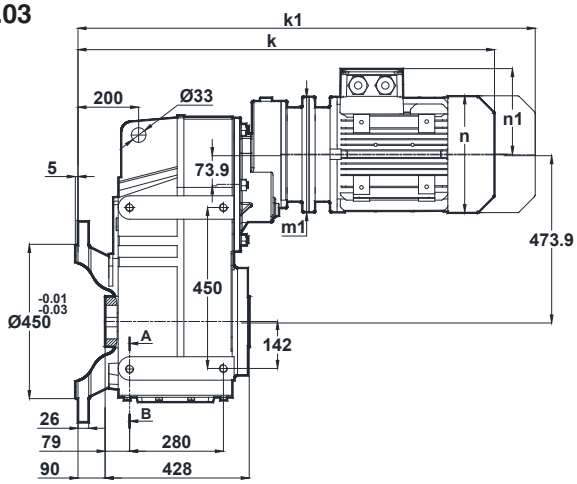
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	1185	1206	1311	1311
k1	1304.5	1310.5	1441	1441
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	886	886

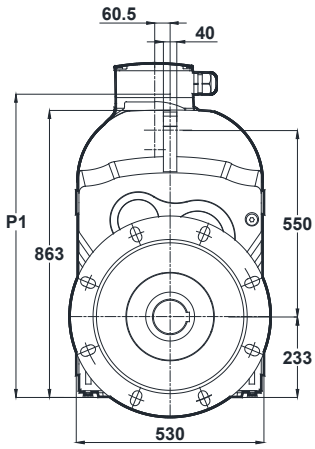


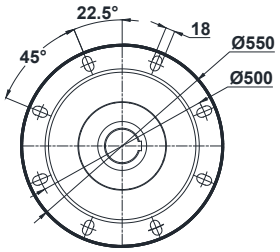
100-112-132
Type

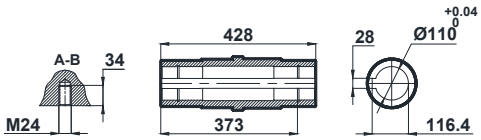
Please see on page 318 for optional flange dimensions

DV874.03



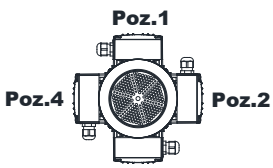






Terminal Box Positions

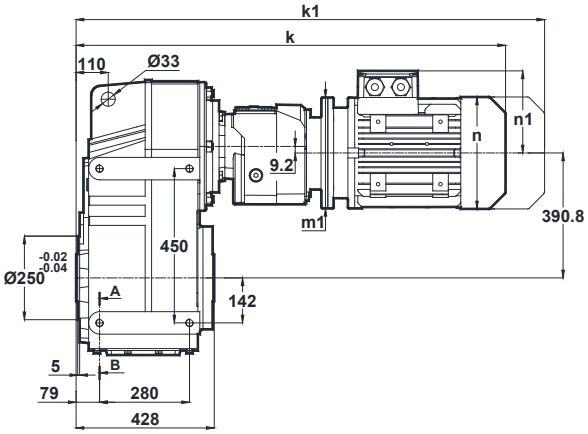
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	975	996	1101	1101
k1	1094.5	1100.5	1231	1231
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	886	886

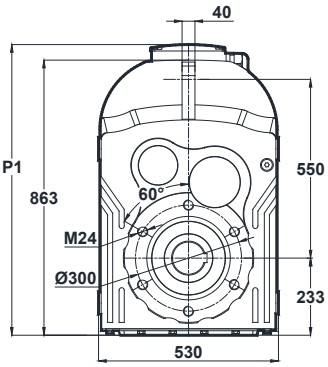


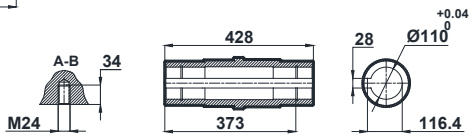
100-112-132
Type

Please see on page 318 for optional flange dimensions

DV875.00
DV876.00

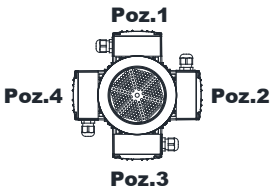






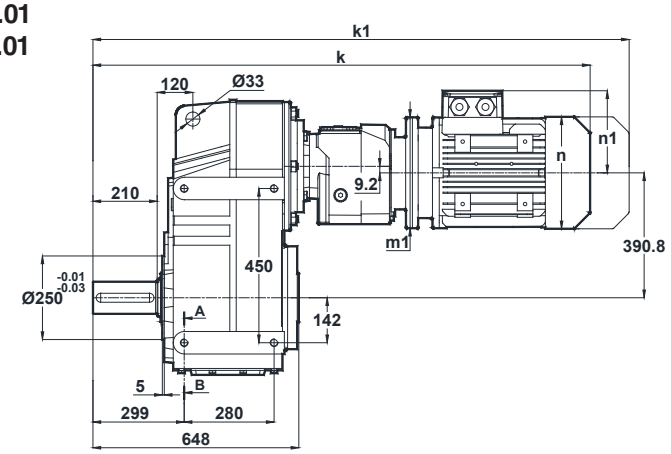
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	904	927	968	968	1020
k1	995	1020	1072.5	1072.5	1139.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 193
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160
p1	736	745	756	756	771

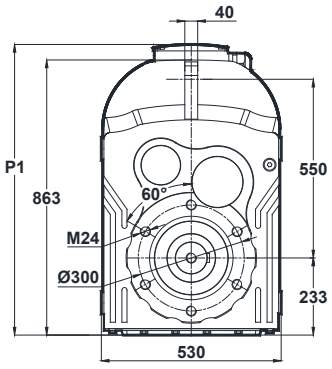
Terminal Box Positions

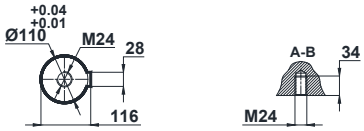


71-80-90-100
Type

DV875.01
DV876.01

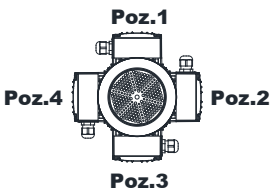




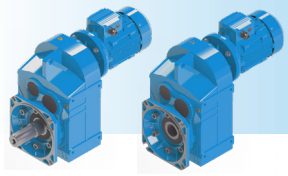


	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1124	1147	1188	1188	1240
k1	1215	1240	1292.5	1292.5	1359.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 193
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160
p1	736	745	756	756	771

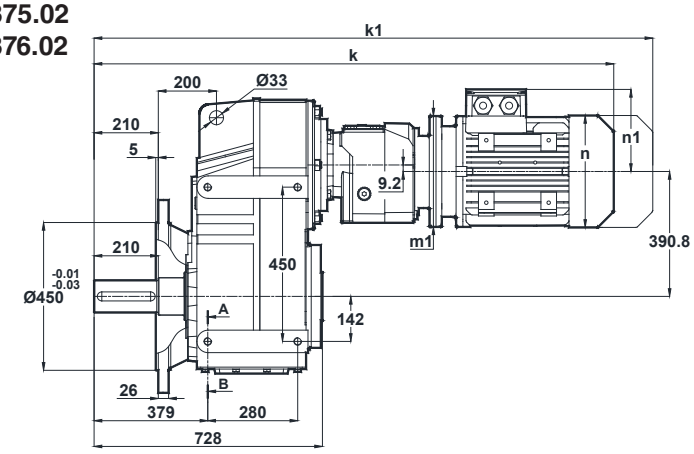
Terminal Box Positions

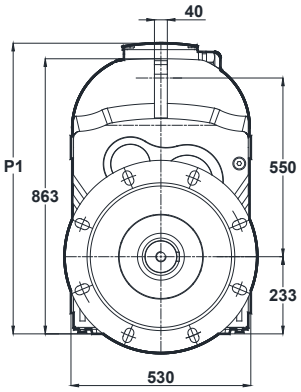


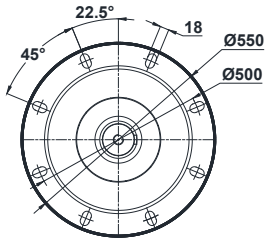
71-80-90-100
Type

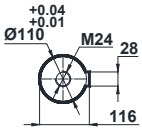


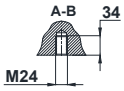
DV875.02
DV876.02





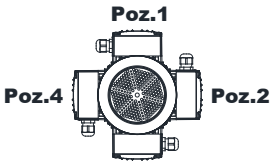






	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1204	1227	1268	1268	1320
k1	1295	1320	1372.5	1372.5	1439.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 193
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160
p1	736	745	756	756	771

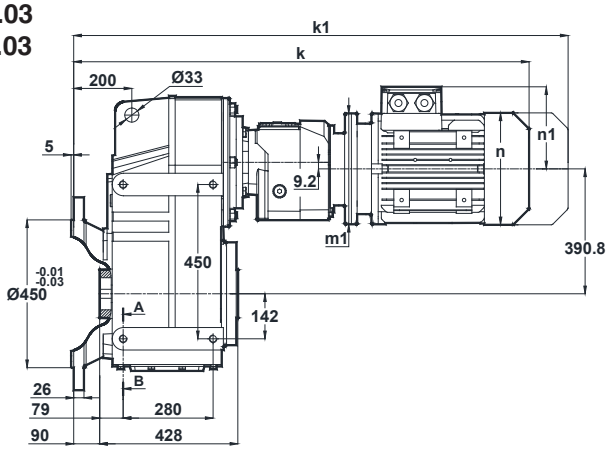
Terminal Box Positions

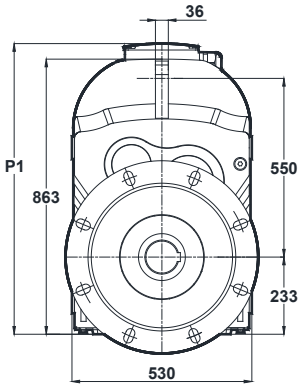


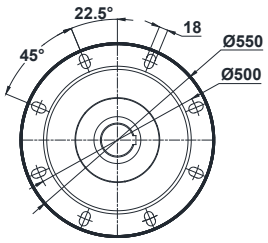
71-80-90-100
Type

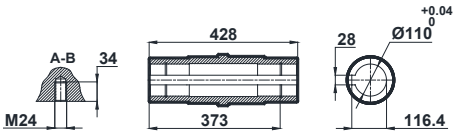
Please see on page 318 for optional flange dimensions

DV875.03
DV876.03



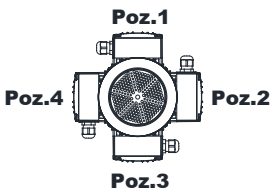






	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	994	1017	1058	1058	1110
k1	1085	1110	1162.5	1162.5	1229.5
n / n1	137 / 112	155 / 121	176 / 132	176 / 132	193 / 193
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160
p1	736	745	756	756	771

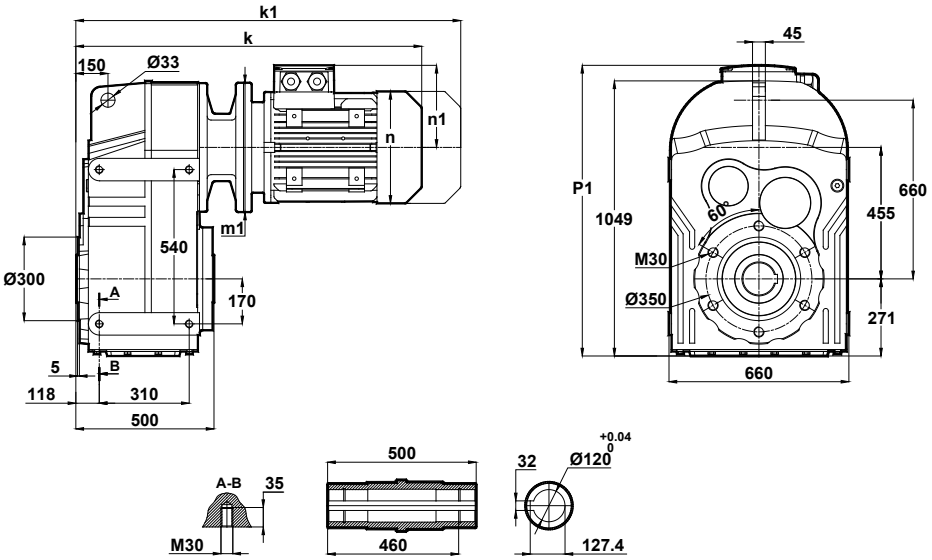
Terminal Box Positions



71-80-90-100
Type

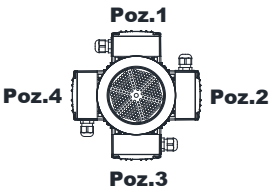
Please see on page 318 for optional flange dimensions

DV972.00
DV973.00



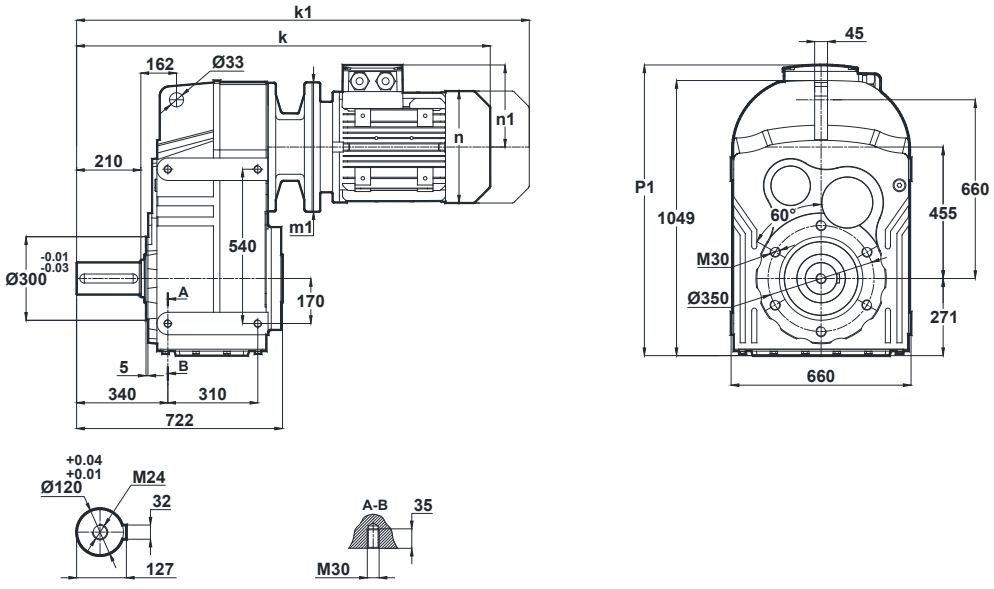
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1086	1086	1175	1175	1237	1312	1337	1465	1527	1527	1739	1739
k1	1246	1246	1345.5	1345.5	1423.5	1477	1502	1635.5	1700	1706	-	-
n / n1	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

Terminal Box Positions



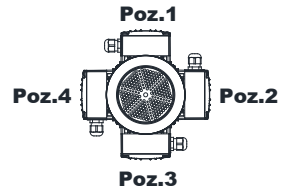
160-180-200-225-250-280-315
Type

DV972.01
DV973.01

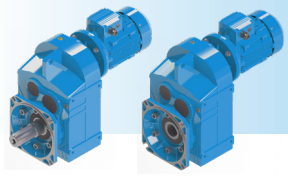


Terminal Box Positions

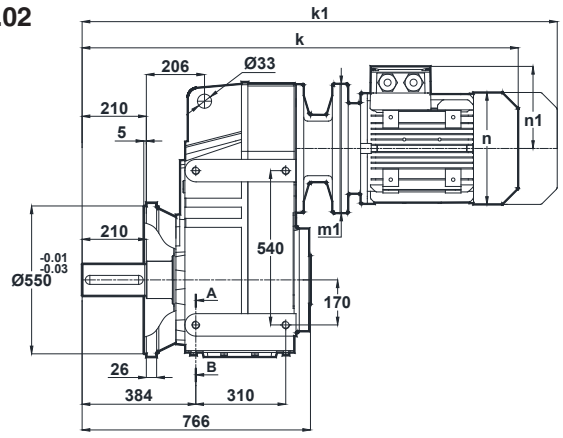
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1308	1308	1397	1397	1459	1534	1559	1687	1749	1749	1961	1961
k1	1488	1488	1567.5	1567.5	1645.5	1699	1724	1857.5	1922	1928	-	-
n / n1	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

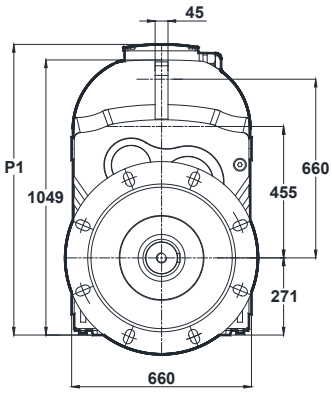


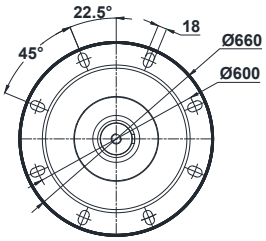
160-180-200-225-250-280-315
Type

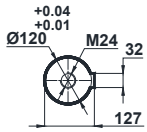


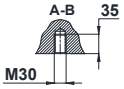
DV972.02
DV973.02





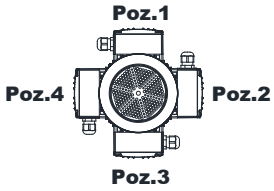






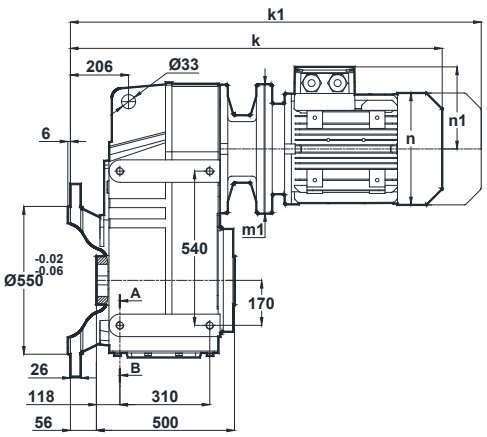
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1352	1352	1441	1441	1503	1578	1603	1731	1793	1793	2005	2005
k1	1532	1532	1611.5	1611.5	1689.5	1743	1768	1901.5	1966	1972	-	-
n / n1	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

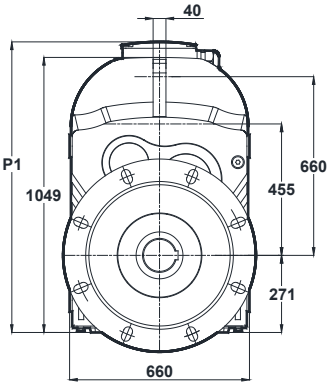
Terminal Box Positions

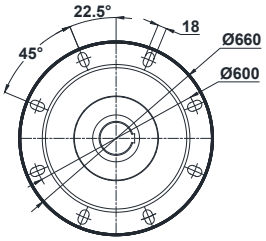


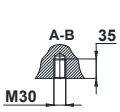
160-180-200-225-250-280-315
Type

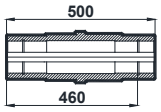
DV972.03
DV973.03

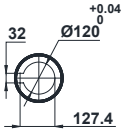






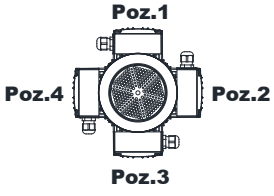






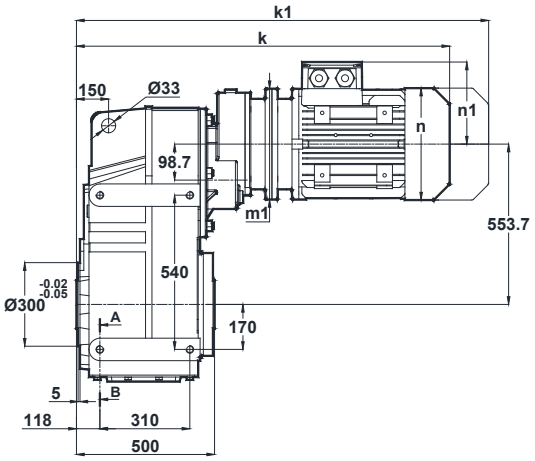
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1142	1142	1231	1231	1293	1368	1393	1521	1583	1583	1795	1795
k1	1322	1322	1401.5	1401.5	1479.5	1533	1533	1686	1756	1762	-	-
n / n1	315 / 219	315 / 219	347 / 234	347 / 234	390 / 275	434 / 285	434 / 285	480 / 322	544 / 350	544 / 350	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-
p1	-	-	-	-	-	-	-	-	1076	1076	1236	1236

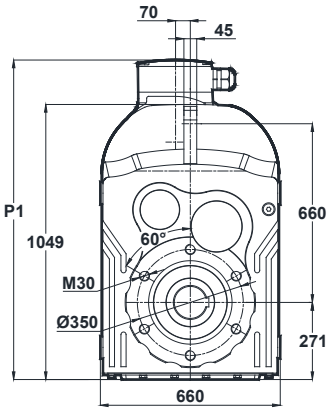
Terminal Box Positions

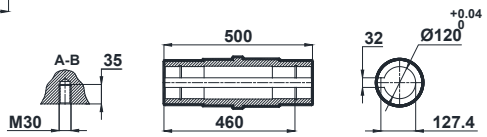


160-180-200-225-250-280-315
Type

DV974.00

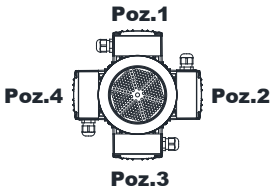






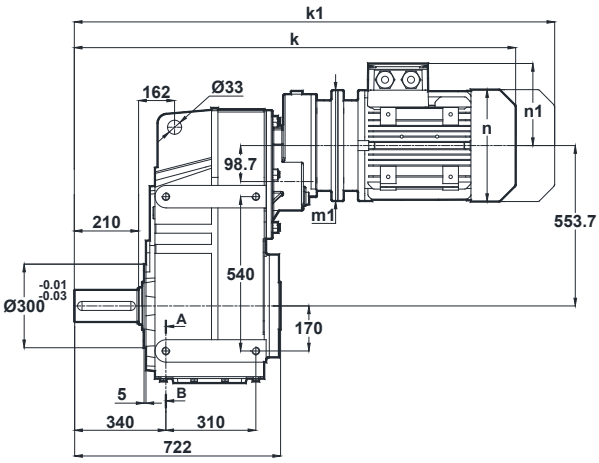
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	990	1011	1110	1110
k1	1109.5	1115.5	1240	1240
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	-	-

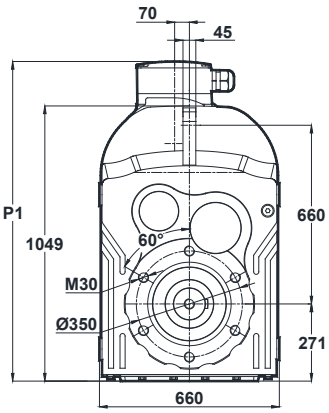
Terminal Box Positions

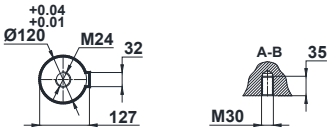


100-112-132
Type

DV974.01

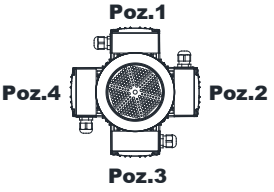






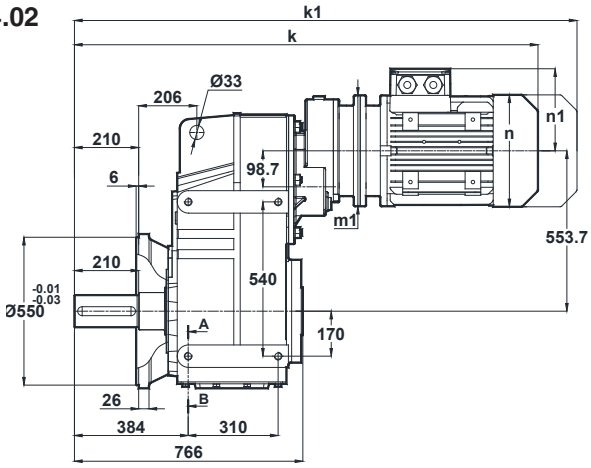
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	1212	1233	1332	1332
k1	1331.5	1337.5	1462	1462
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	-	-

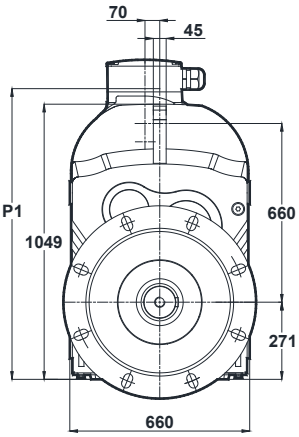
Terminal Box Positions

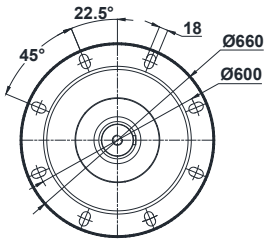


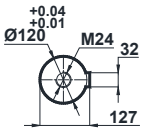
100-112-132
Type

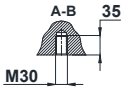
DV974.02





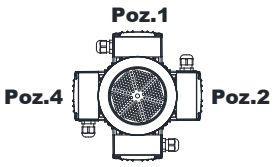






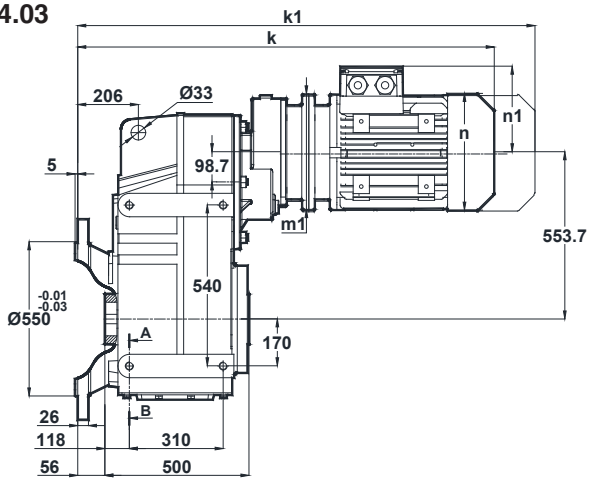
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	1256	1277	1376	1376
k1	1375.5	1381.5	1506	1506
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	-	-

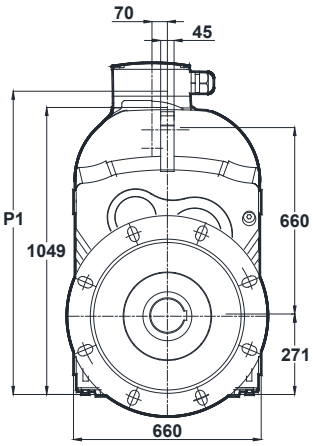
Terminal Box Positions

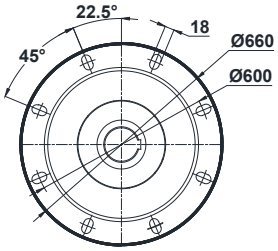


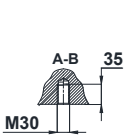
100-112-132
Type

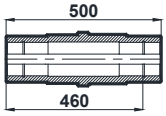
DV974.03

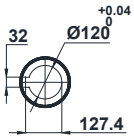






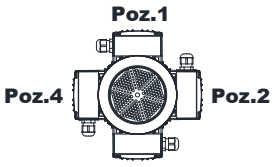






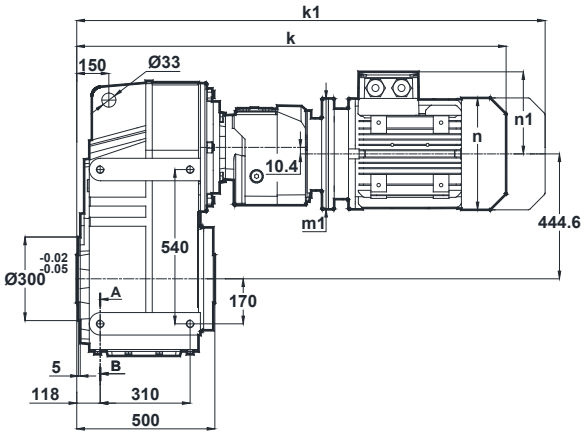
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14
k	1046	1067	1166	1166
k1	1165.5	1171.5	1296	1296
n / n1	193 / 147	215 / 158	257 / 179	257 / 179
m1 (B5)	250	250	300	300
m1 (B14)	-	-	200	200
p1	-	-	-	-

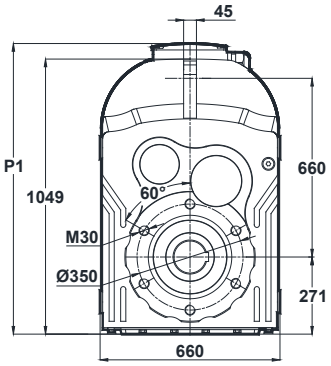
Terminal Box Positions

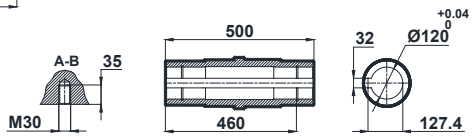


100-112-132
Type

DV975.00
DV976.00

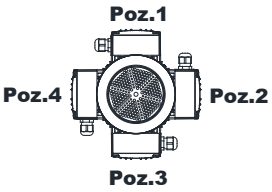






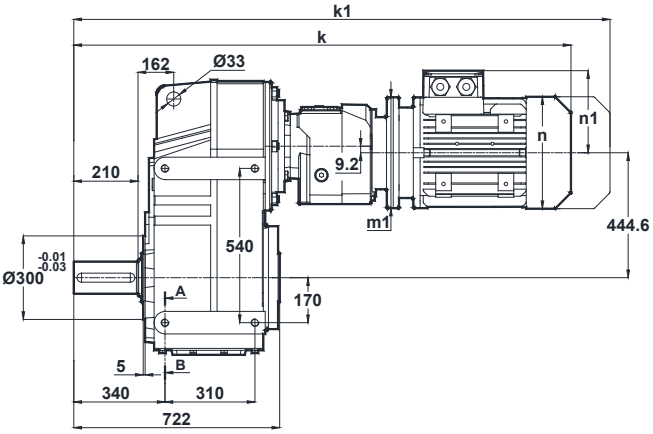
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1050	1091	1091	1145
k1	1143	1195.5	1195.5	1264.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	-	-	-

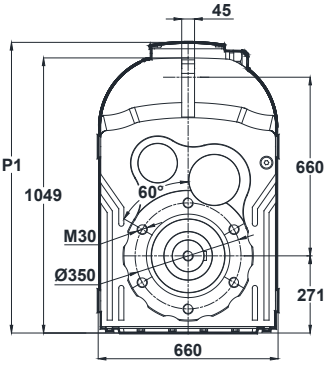
Terminal Box Positions

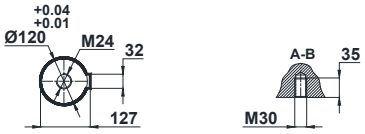


80-90-100
Type

DV975.01
DV976.01

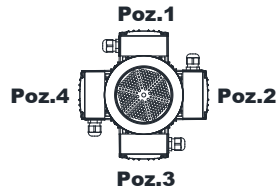






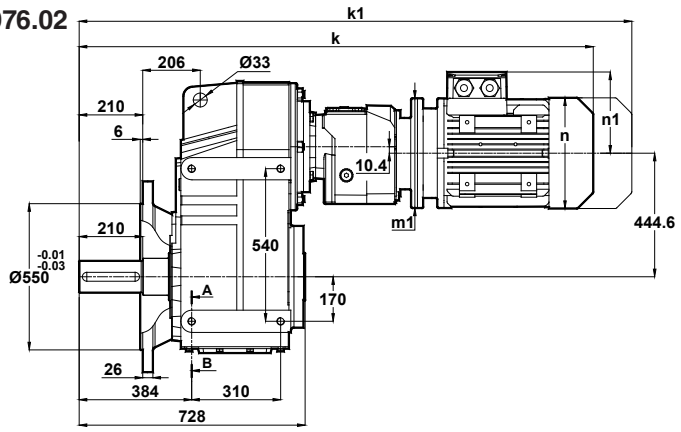
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1272	1313	1313	1367
k1	1365	1417.5	1417.5	1486.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	-	-	-

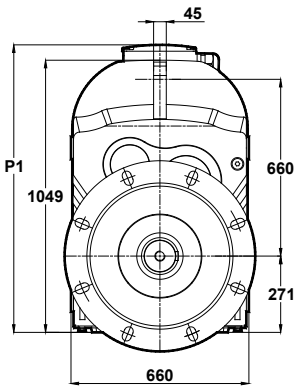
Terminal Box Positions

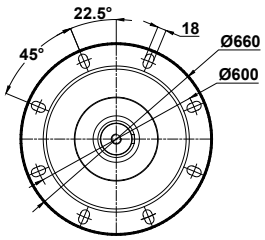


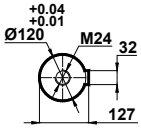
80-90-100
Type

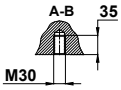
DV975.02
DV976.02





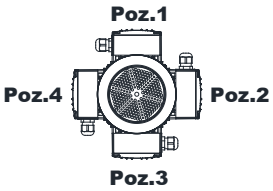






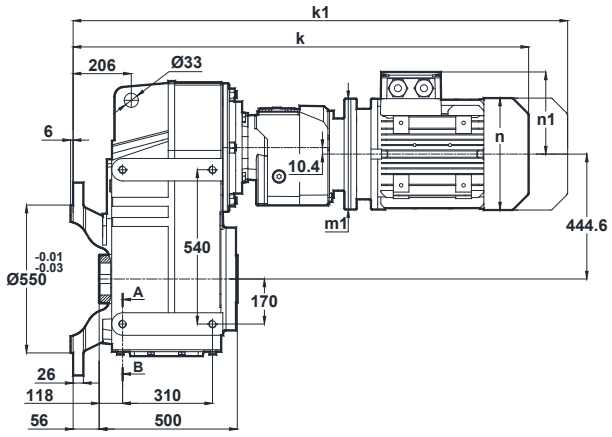
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1316	1357	1357	1411
k1	1409	1461.5	1461.5	1530.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	-	-	-

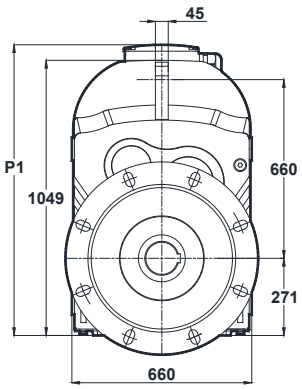
Terminal Box Positions

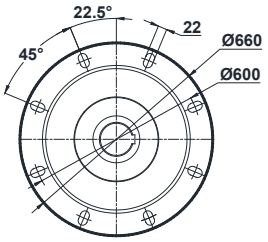


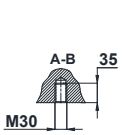
80-90-100
Type

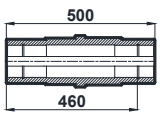
DV975.03
DV976.03

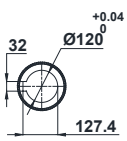






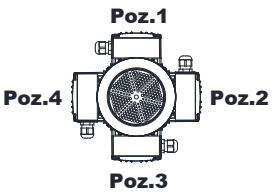






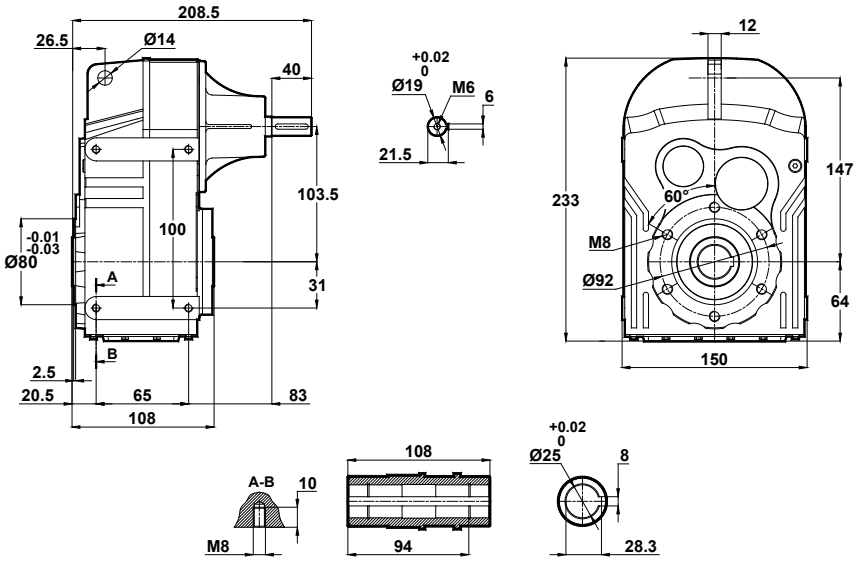
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1106	1147	1147	1201
k1	1199	1251.5	1251.5	1320.5
n / n1	155 / 121	176 / 132	176 / 132	193 / 147
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160
p1	-	-	-	-

Terminal Box Positions

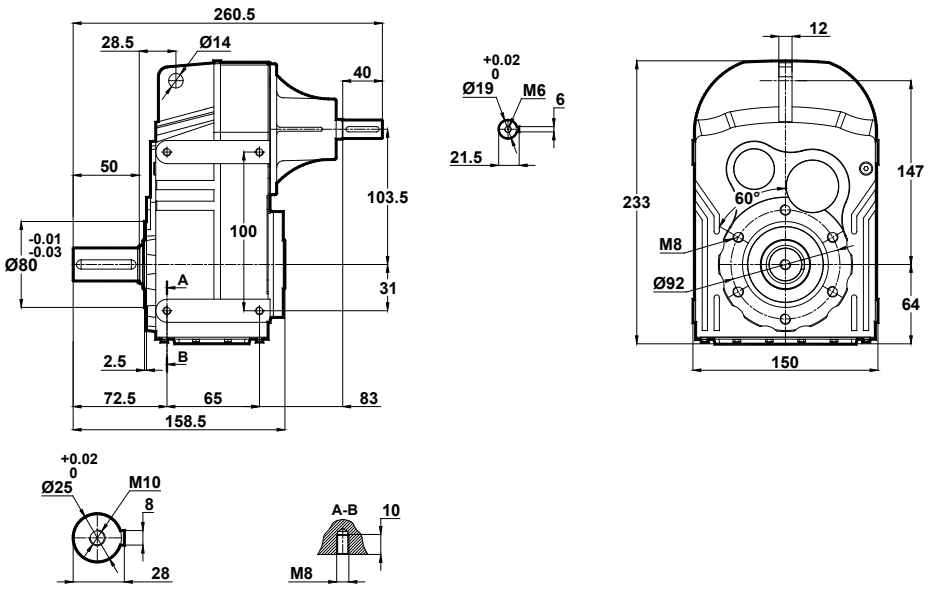


80-90-100
Type

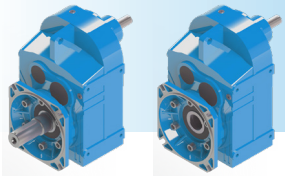
DT072.00
DT073.00



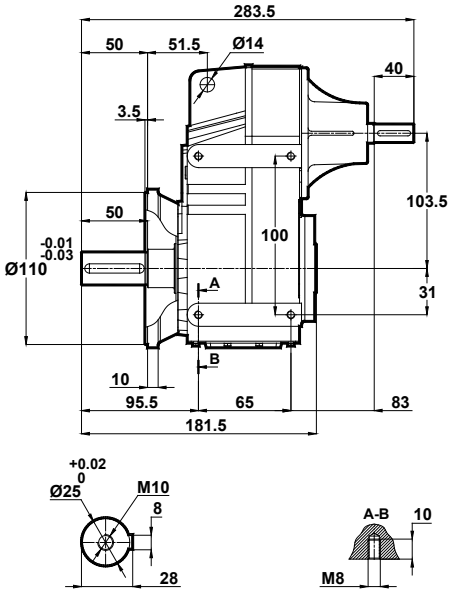
DT072.01
DT073.01



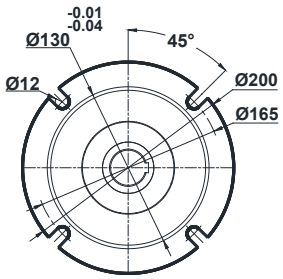
Tapped center hole according to DIN 332, sheet 2



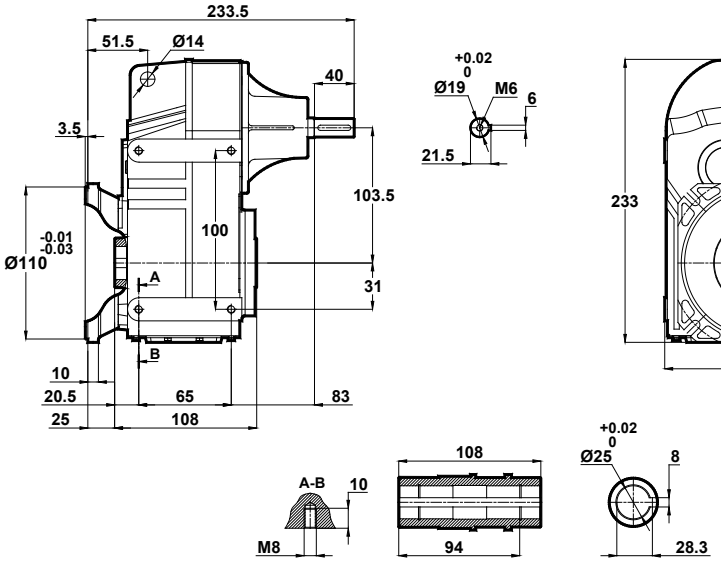
DT072.02
DT073.02



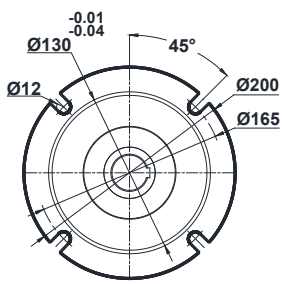
Optional Flange Dimensions



DT072.03
DT073.03

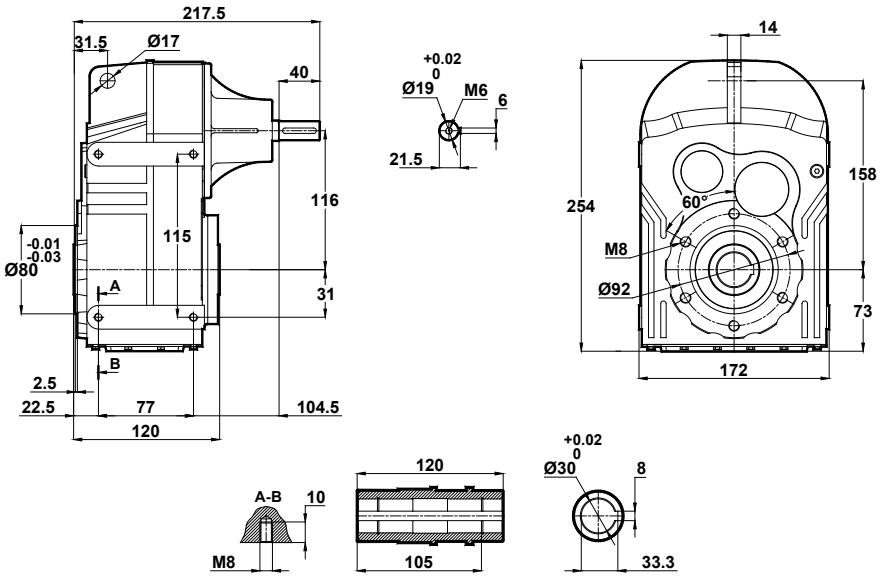


Optional Flange Dimensions

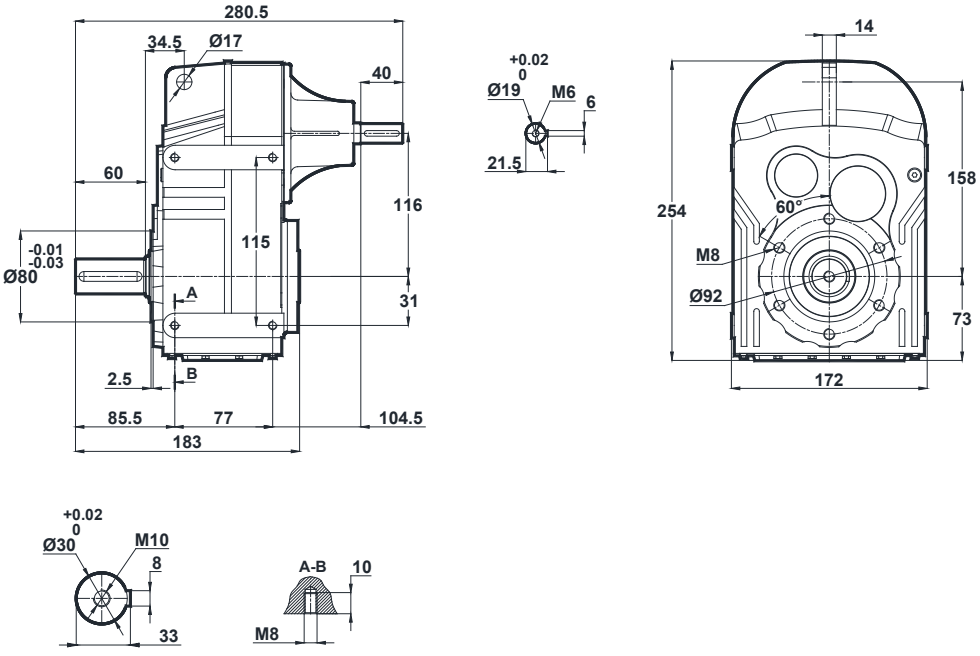


Tapped center hole according to DIN 332, sheet 2

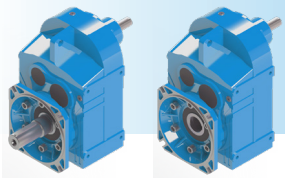
DT172.00
DT173.00



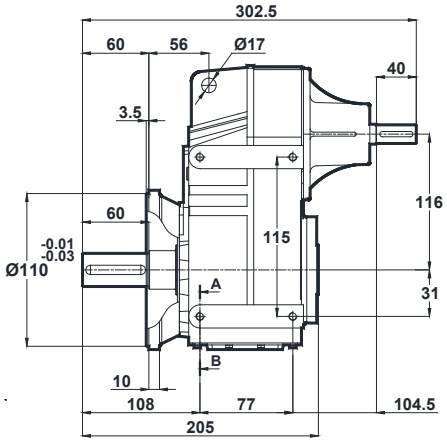
DT172.01
DT173.01

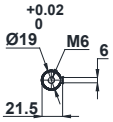


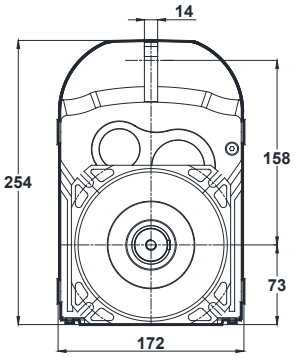
Tapped center hole according to DIN 332, sheet 2

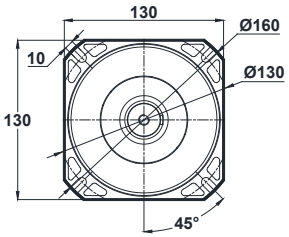


DT172.02
DT173.02

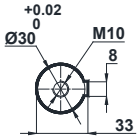


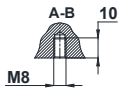


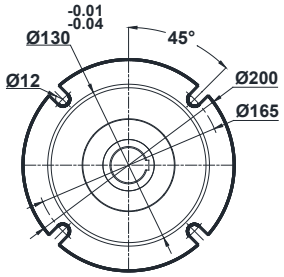




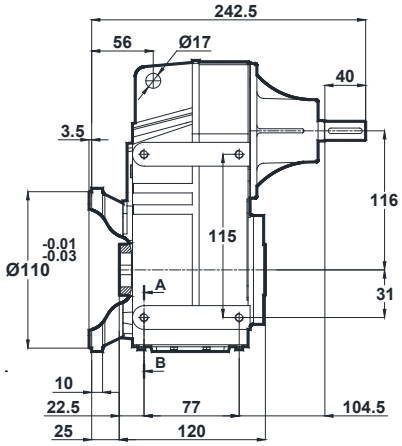
Optional Flange Dimensions

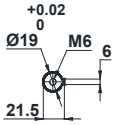


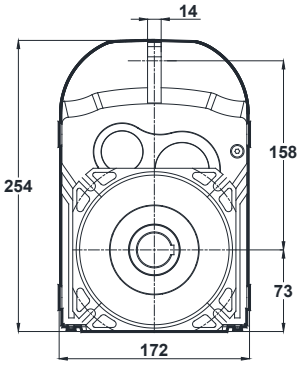


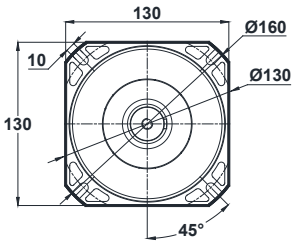


DT172.03
DT173.03

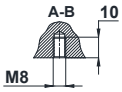


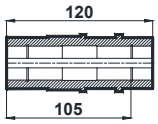


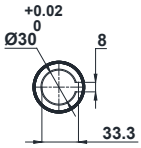


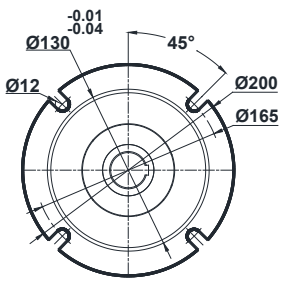


Optional Flange Dimensions



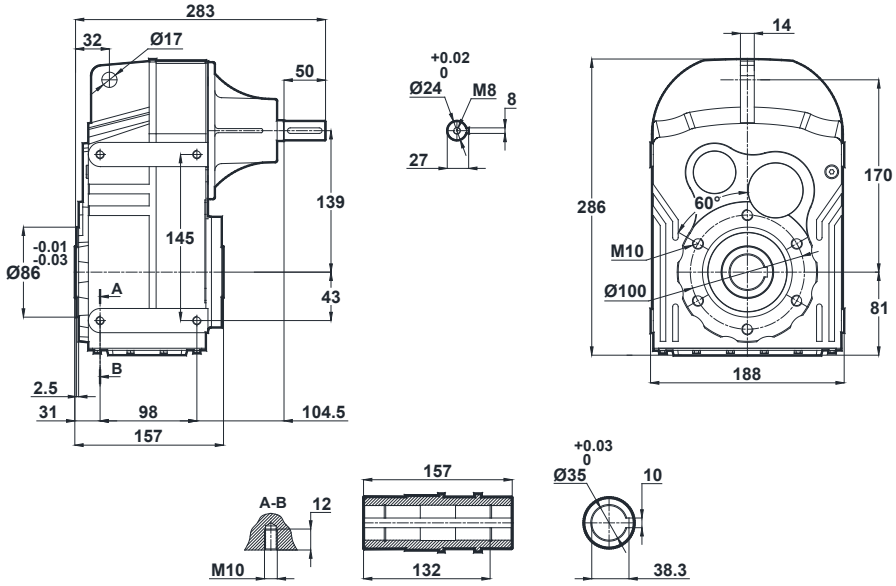




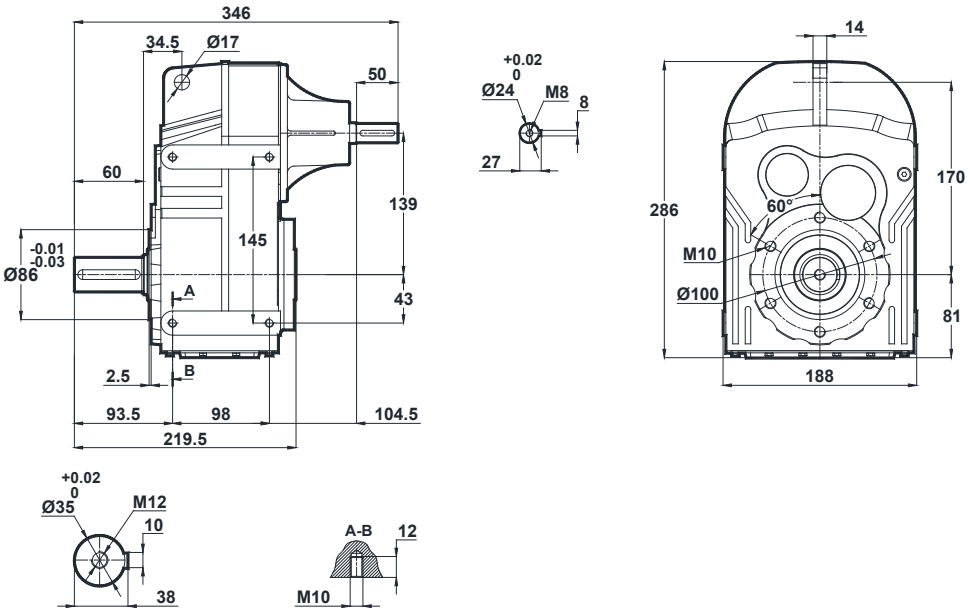


Tapped center hole according to DIN 332, sheet 2

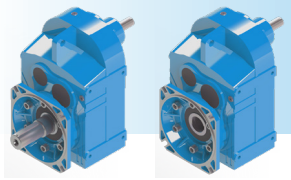
DT272.00
DT273.00



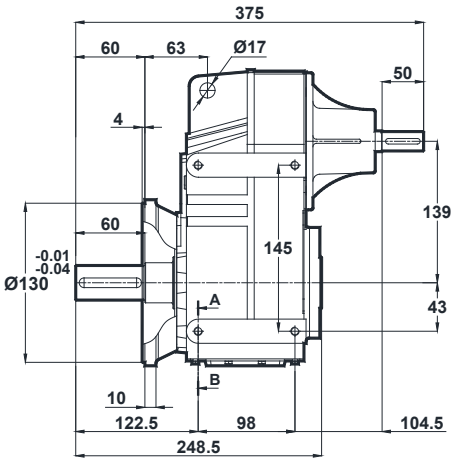
DT272.01
DT273.01

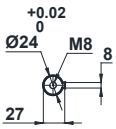


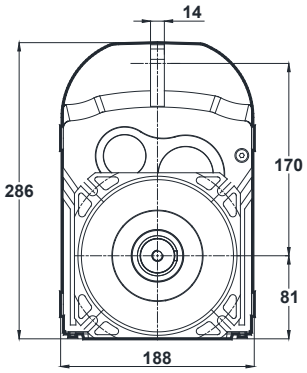
Tapped center hole according to DIN 332, sheet 2

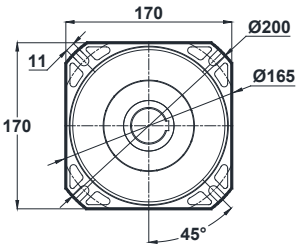


DT272.02
DT273.02

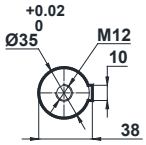


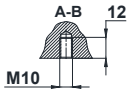


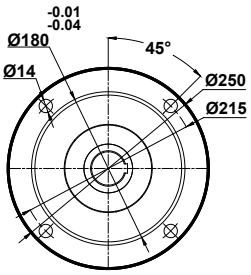




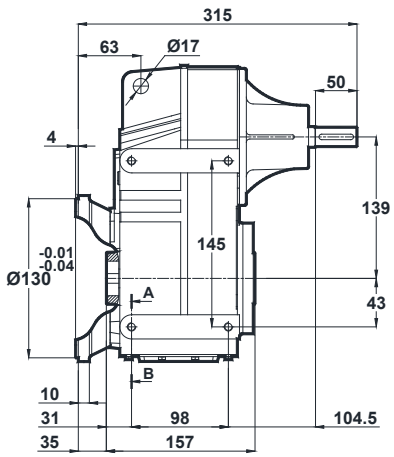
Optional Flange Dimensions

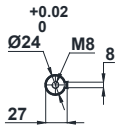


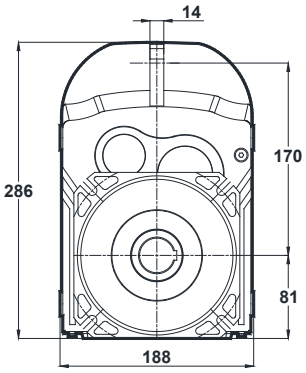


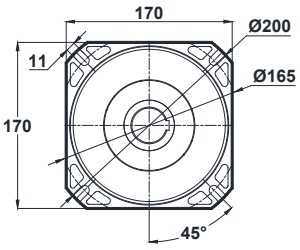


DT272.03
DT273.03

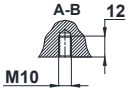


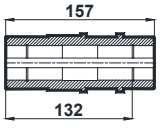


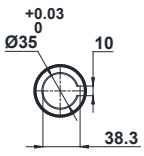


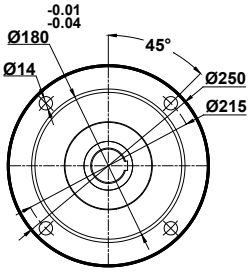


Optional Flange Dimensions



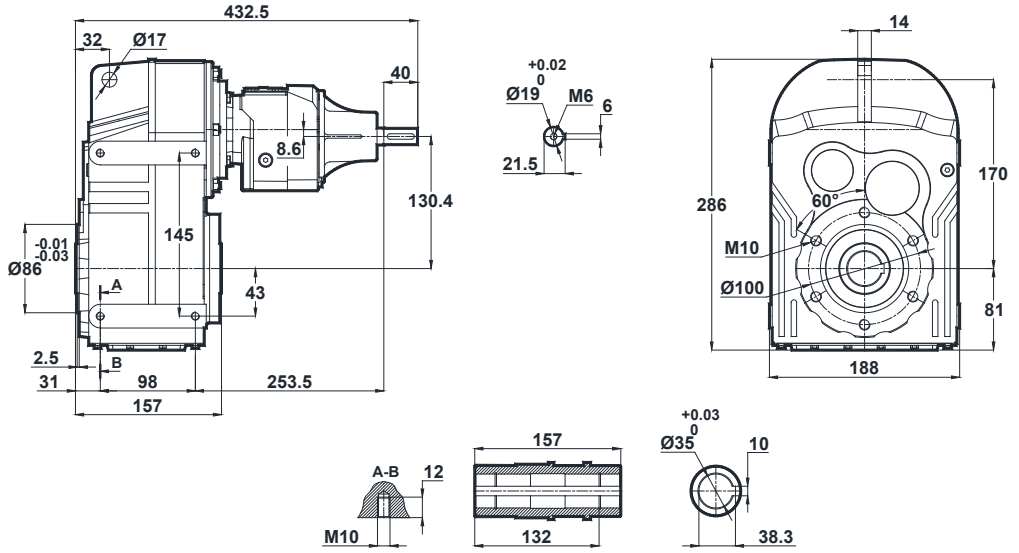




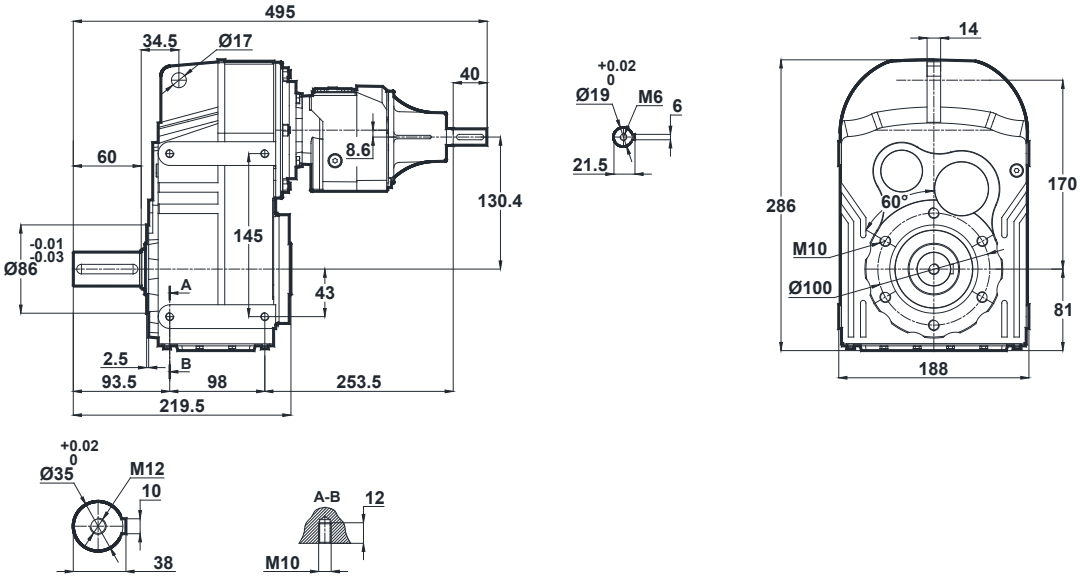


Tapped center hole according to DIN 332, sheet 2

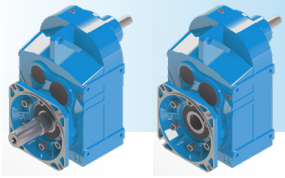
DT275.00
DT276.00



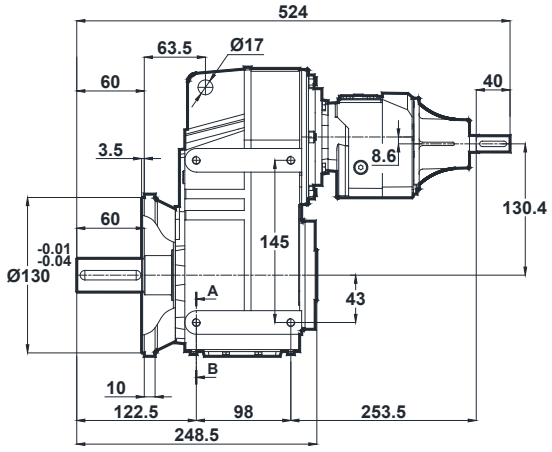
DT275.01
DT276.01

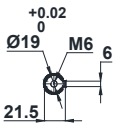


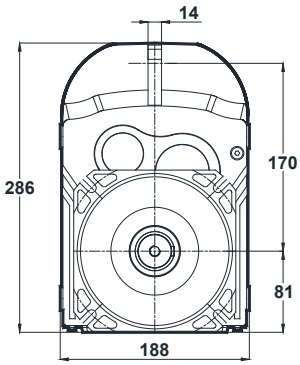
Tapped center hole according to DIN 332, sheet 2

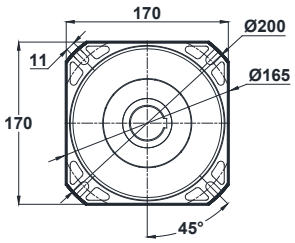


DT275.02
DT276.02

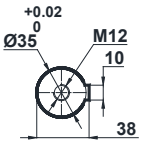


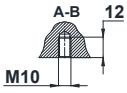


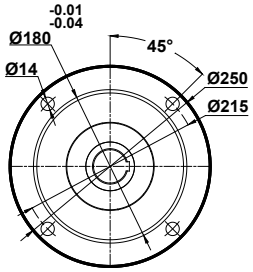




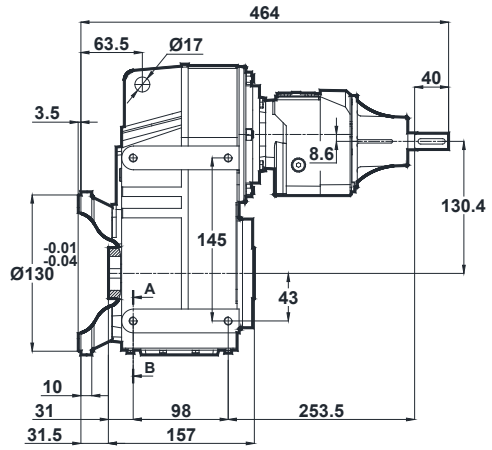
Optional Flange Dimensions

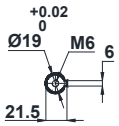


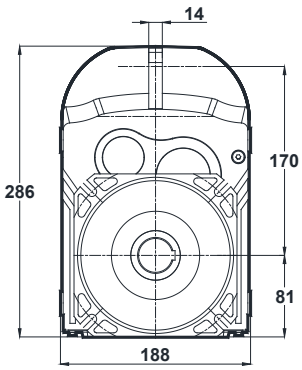


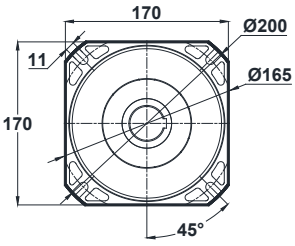


DT275.03
DT276.03

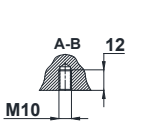


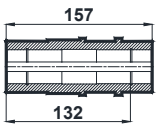


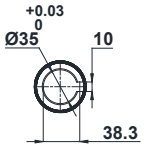


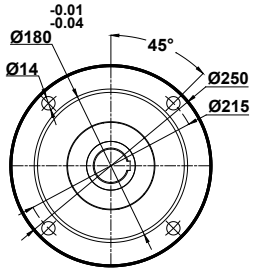


Optional Flange Dimensions



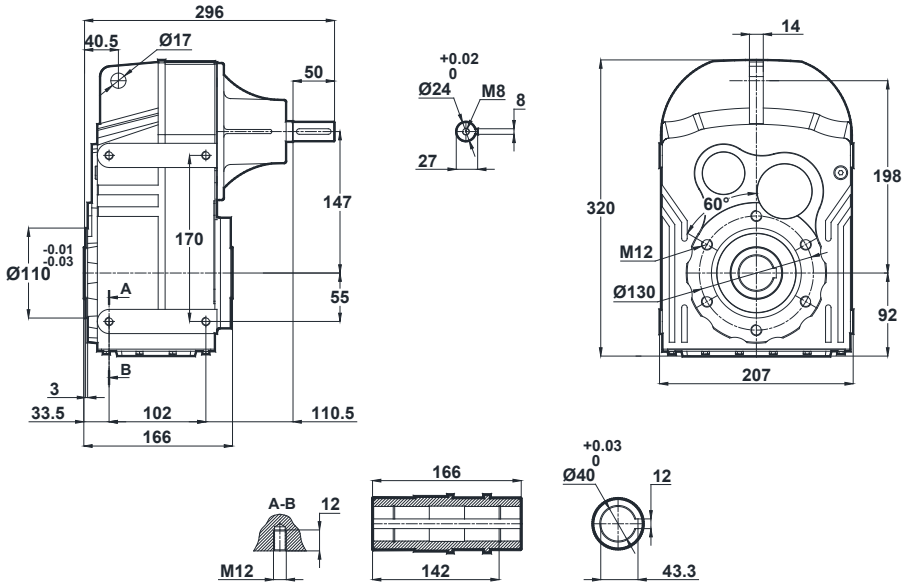




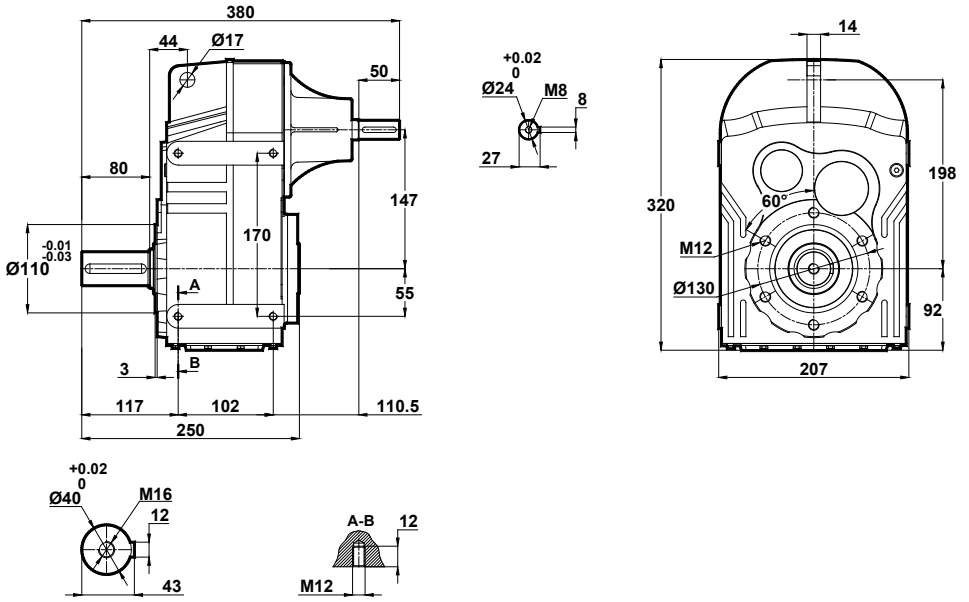


Tapped center hole according to DIN 332, sheet 2

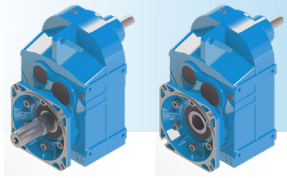
DT282.00
DT283.00



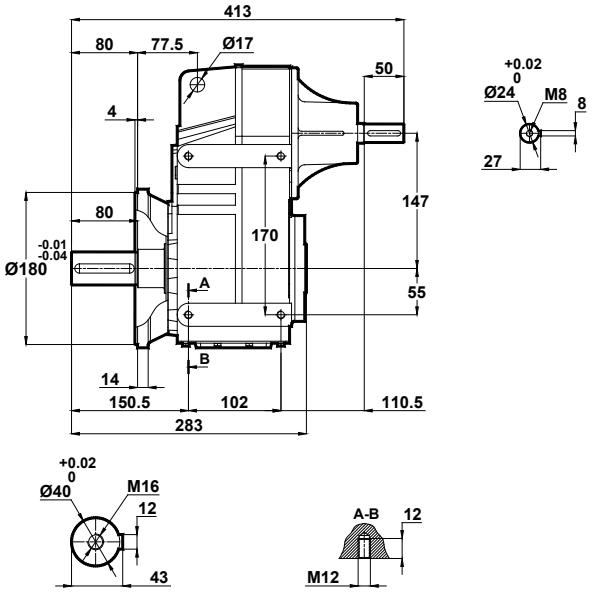
DT282.01
DT283.01



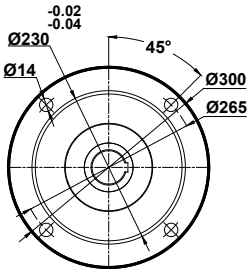
Tapped center hole according to DIN 332, sheet 2



DT282.02
DT283.02

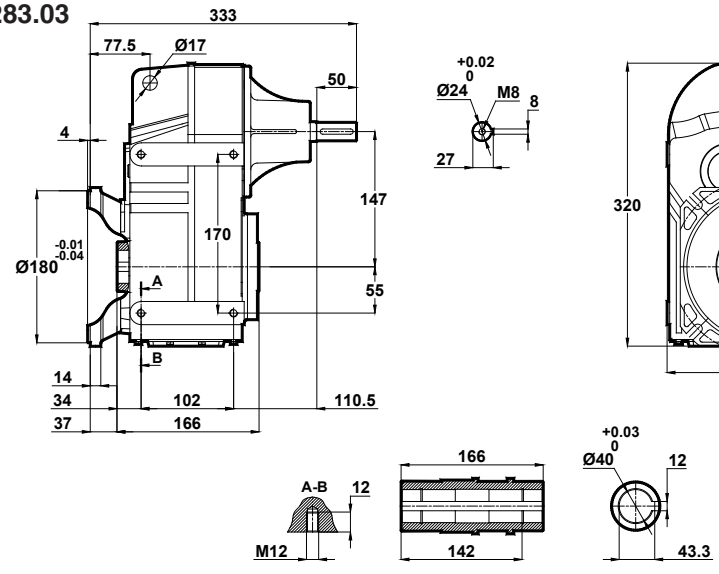


Optional Flange Dimensions

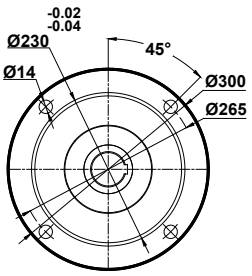


Please see on page 318 for other optional flange dimensions

DT282.03
DT283.03



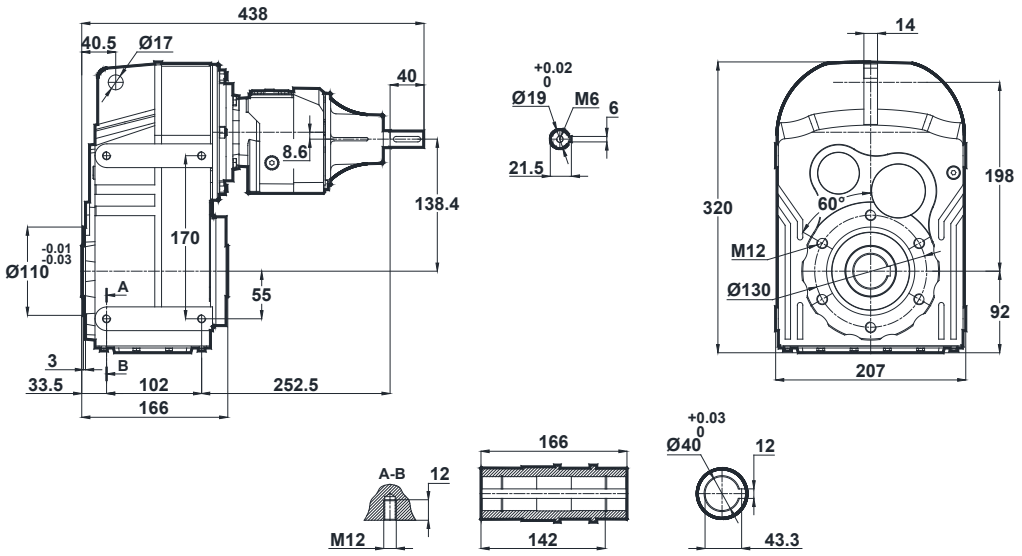
Optional Flange Dimensions



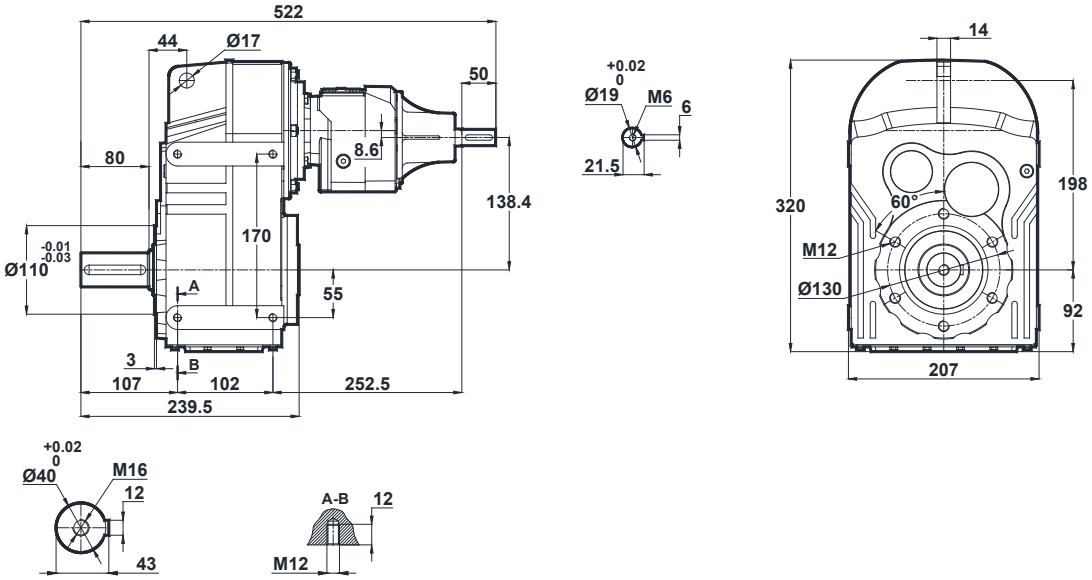
Tapped center hole according to DIN 332, sheet 2

Please see on page 318 for other optional flange dimensions

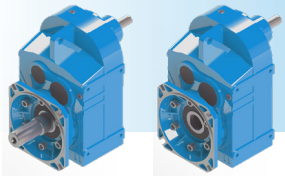
DT285.00
DT286.00



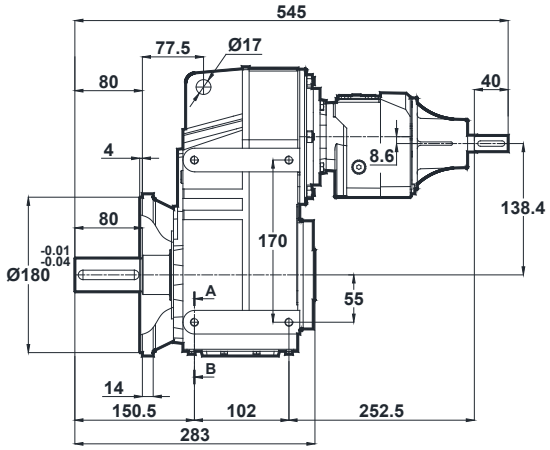
DT285.01
DT286.01

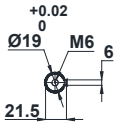


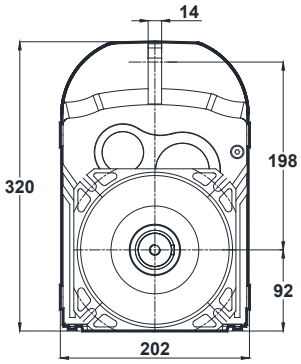
Tapped center hole according to DIN 332, sheet 2

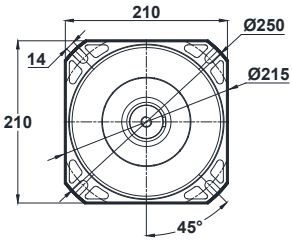


DT285.02
DT286.02

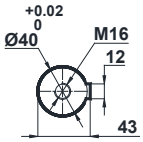


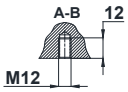


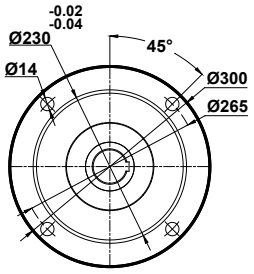




Optional Flange Dimensions

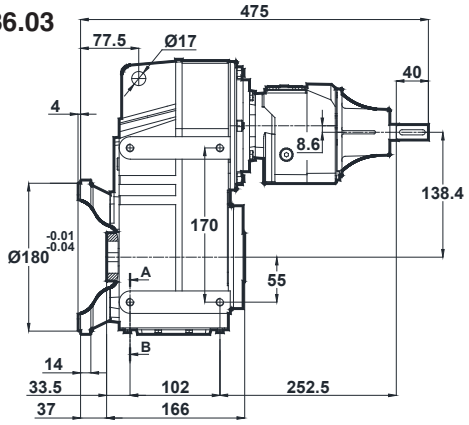


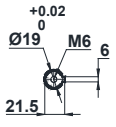


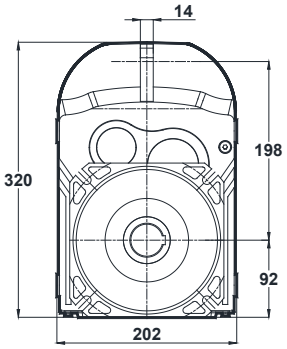


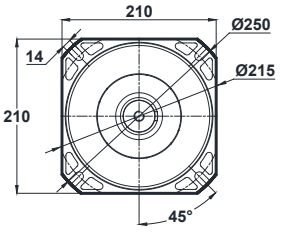
Please see on page 318 for other optional flange dimensions

DT285.03
DT286.03

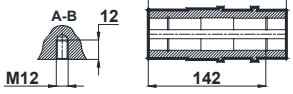


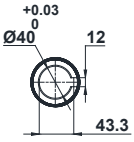


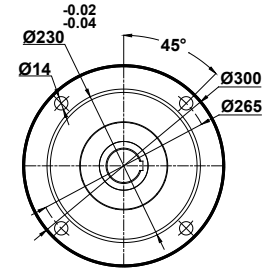




Optional Flange Dimensions



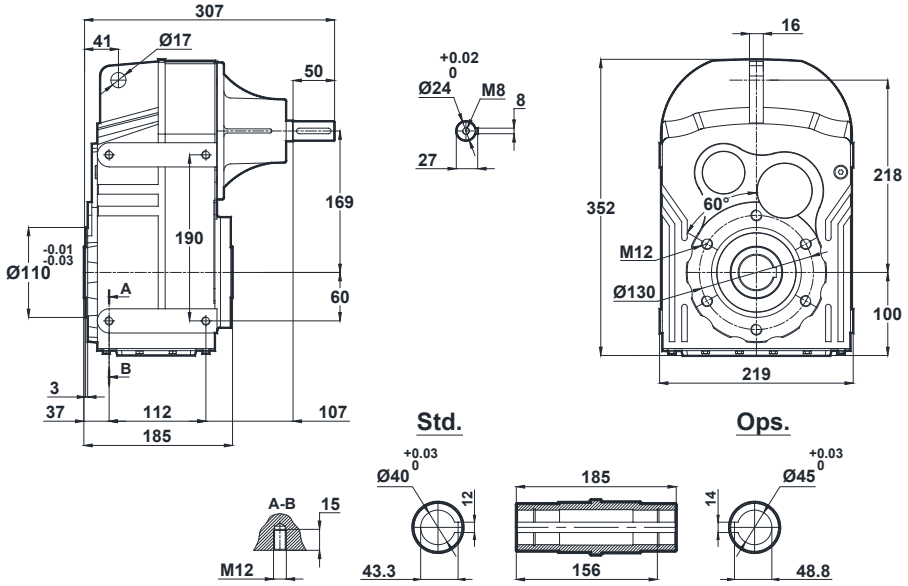




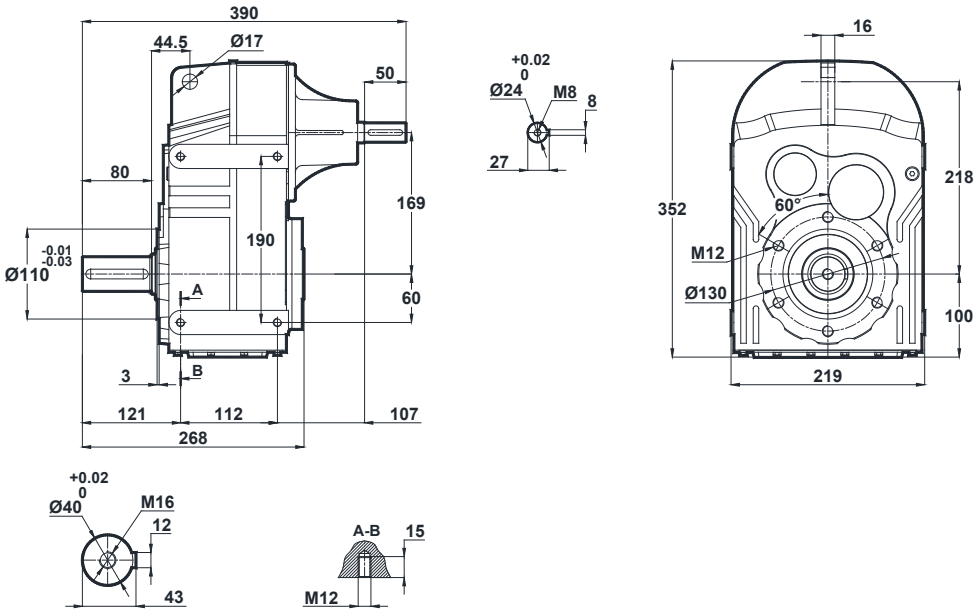
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

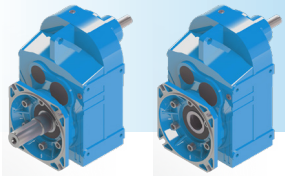
DT372.00
DT373.00



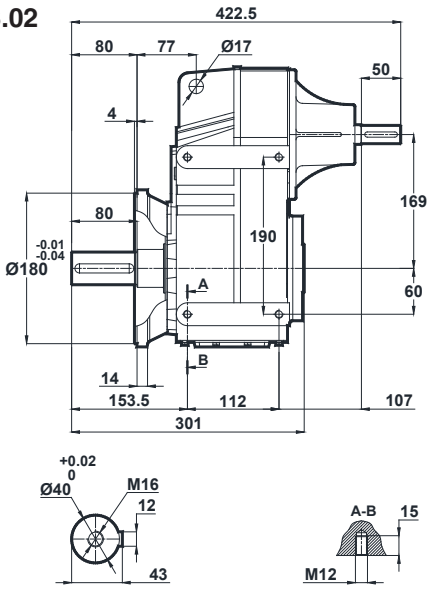
DT372.01
DT373.01

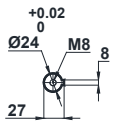


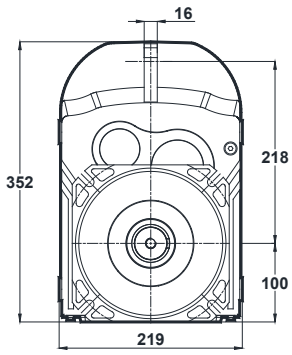
Tapped center hole according to DIN 332, sheet 2

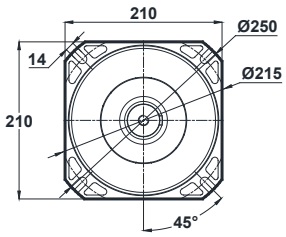


DT372.02
DT373.02

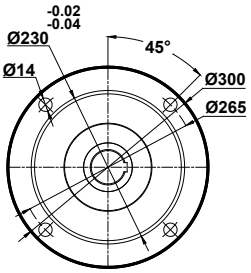






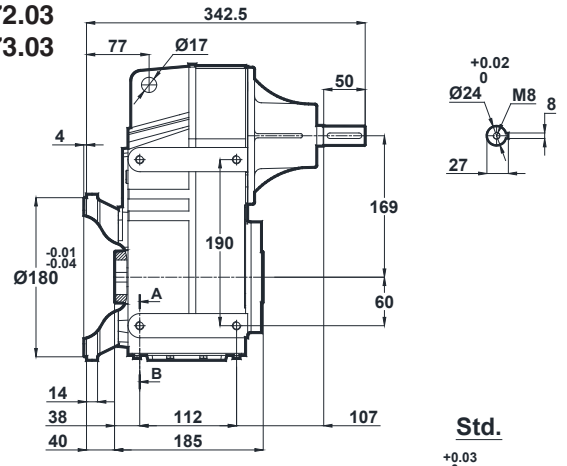


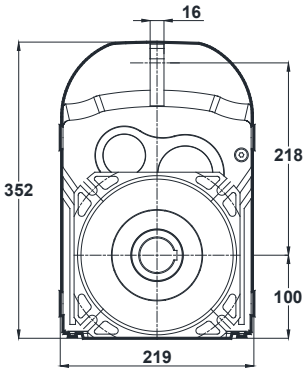
Optional Flange Dimensions

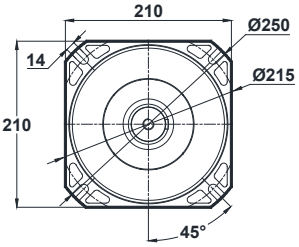


Please see on page 318 for other optional flange dimensions

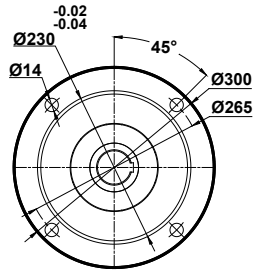
DT372.03
DT373.03







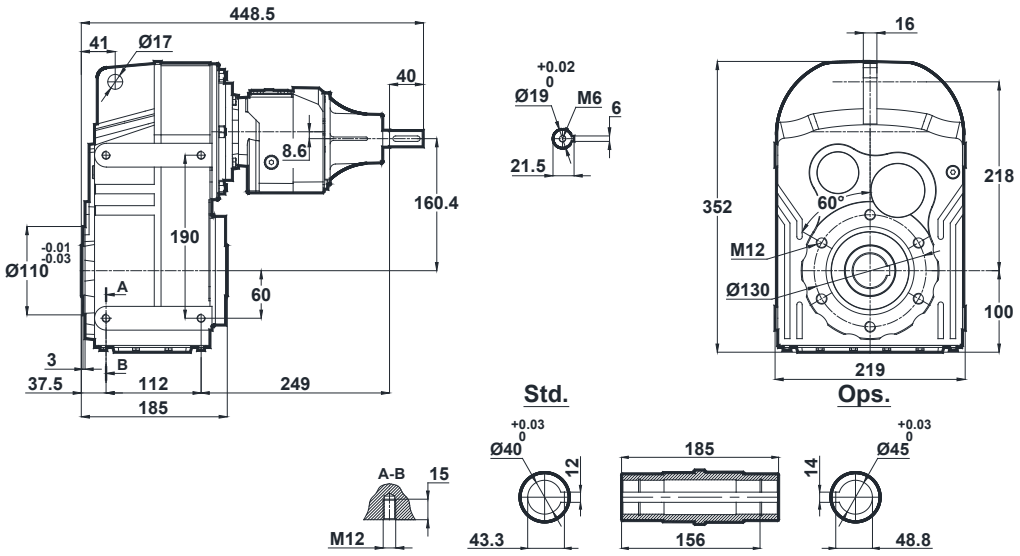
Optional Flange Dimensions



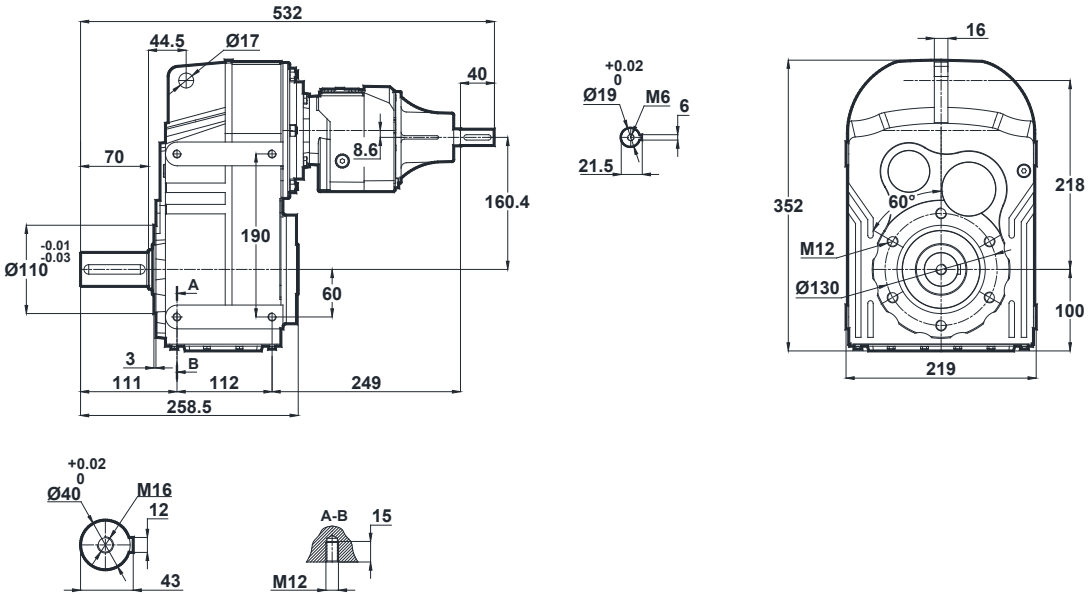
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

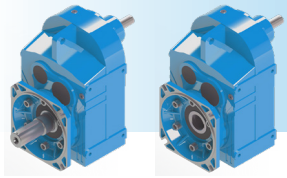
DT375.00
DT376.00



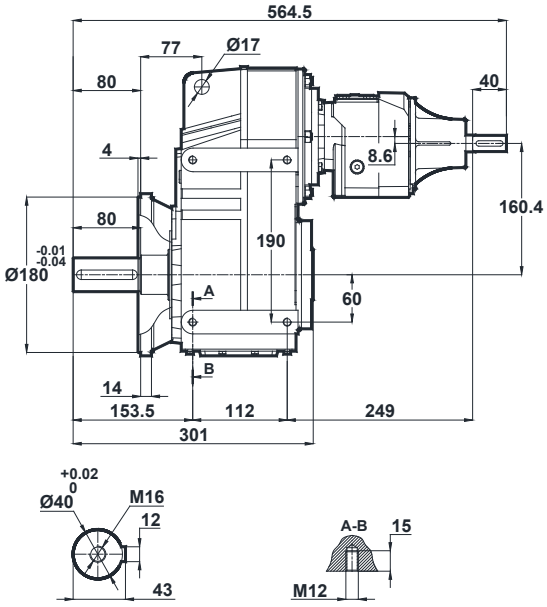
DT375.01
DT376.01

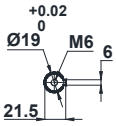


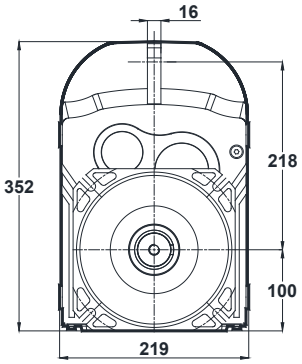
Tapped center hole according to DIN 332, sheet 2

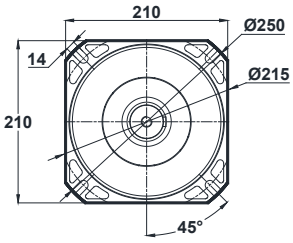


DT375.02
DT376.02

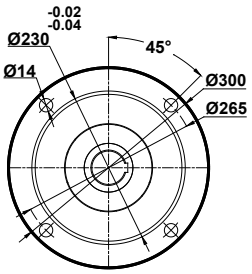






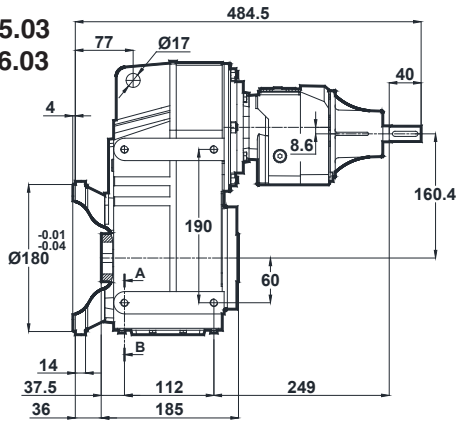


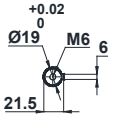
Optional Flange Dimensions

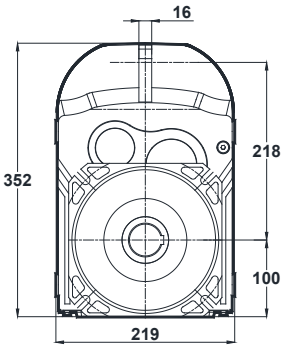


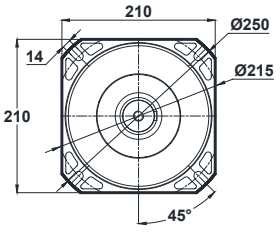
Please see on page 318 for other optional flange dimensions

DT375.03
DT376.03





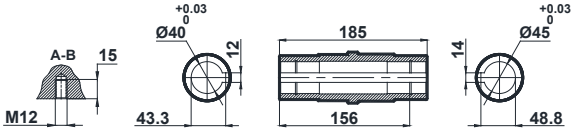


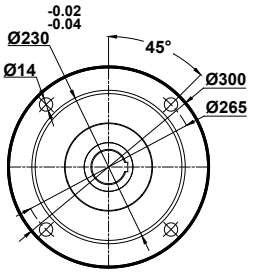


Optional Flange Dimensions

Std.

Ops.

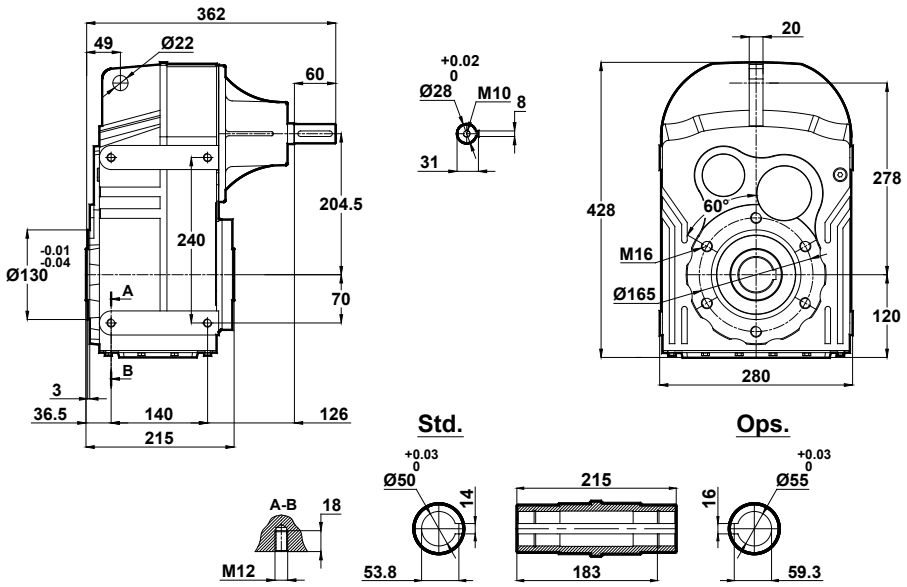




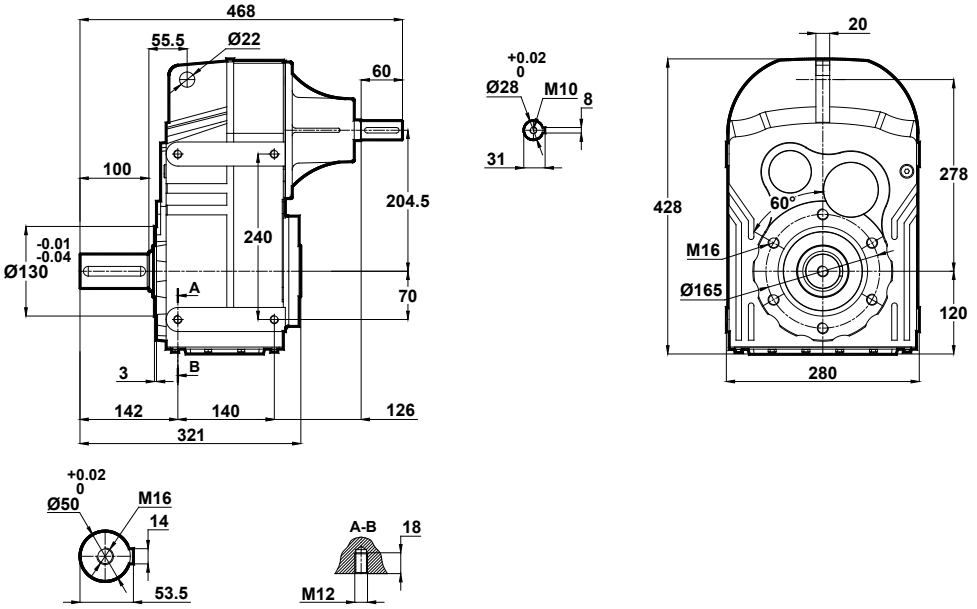
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

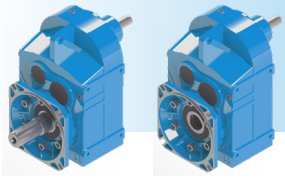
DT472.00
DT473.00



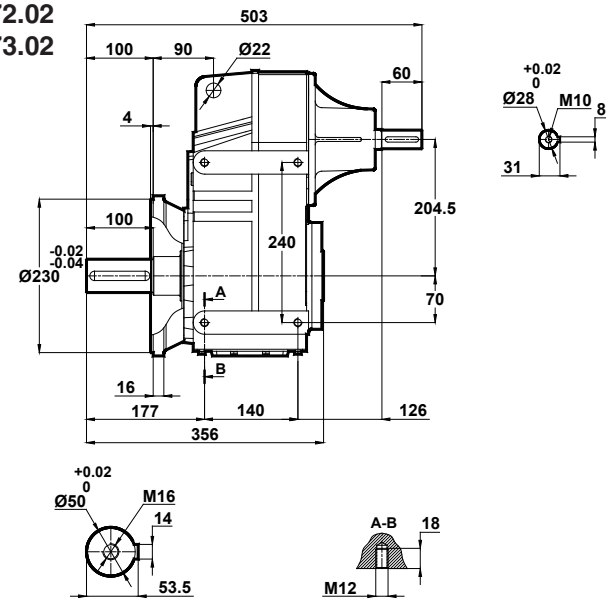
DT472.01
DT473.01



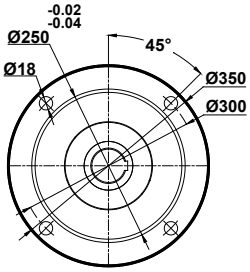
Tapped center hole according to DIN 332, sheet 2



DT472.02
DT473.02

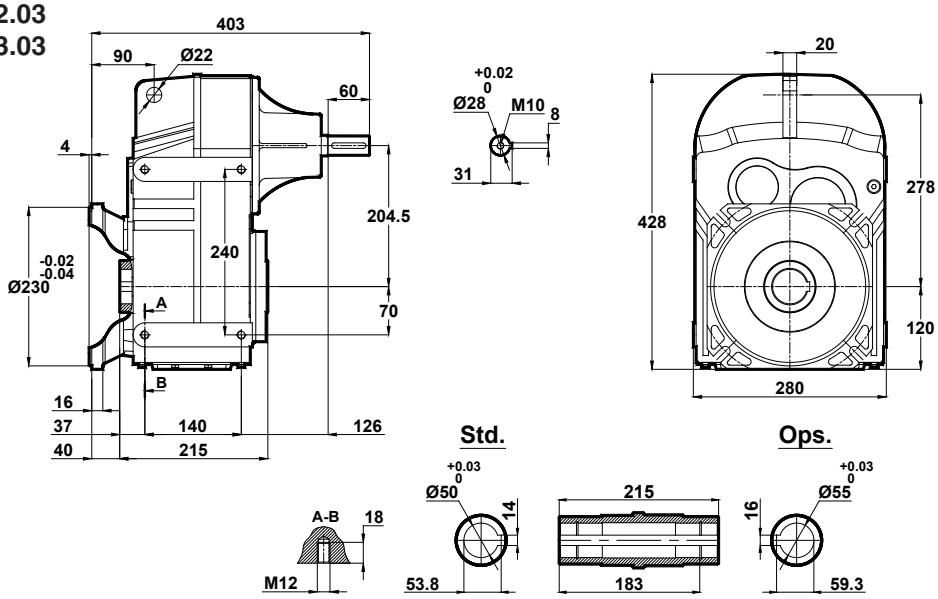


Optional Flange Dimensions

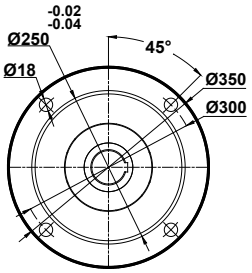


Please see on page 318 for other optional flange dimensions

DT472.03
DT473.03



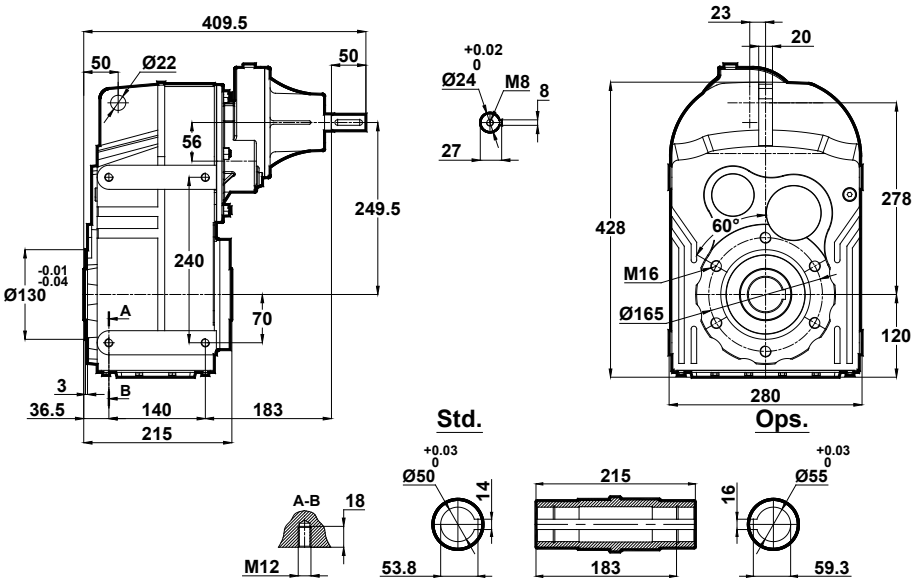
Optional Flange Dimensions



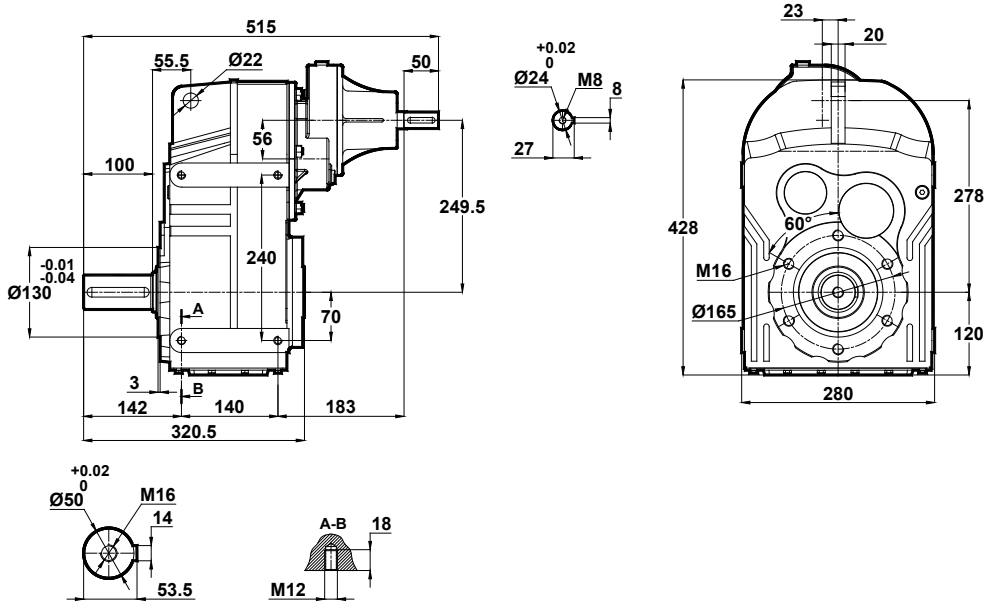
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

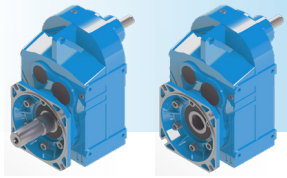
DT474.00



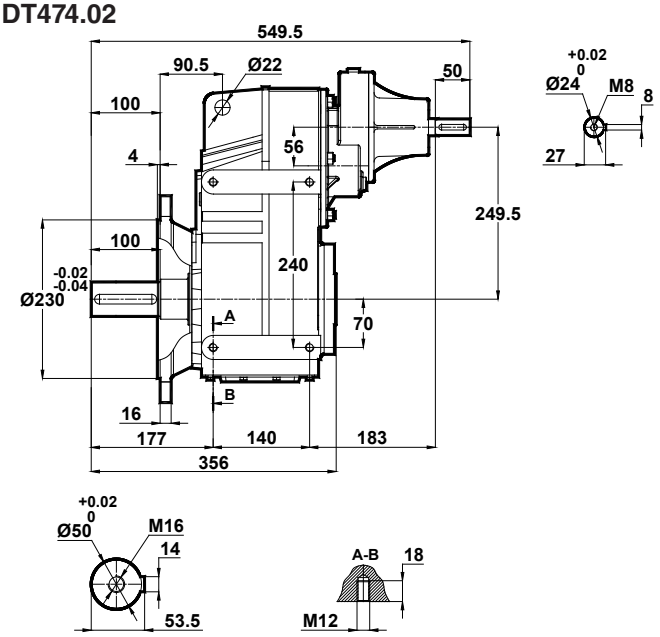
DT474.01

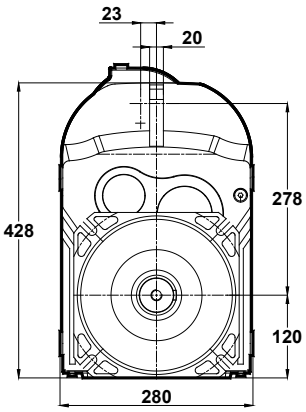


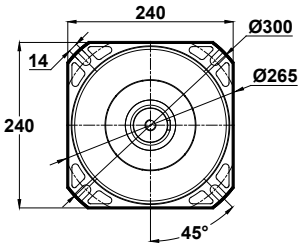
Tapped center hole according to DIN 332, sheet 2



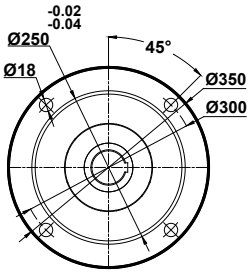
DT474.02





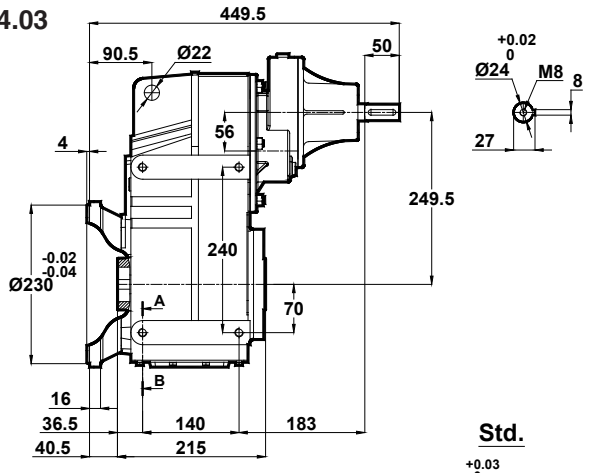


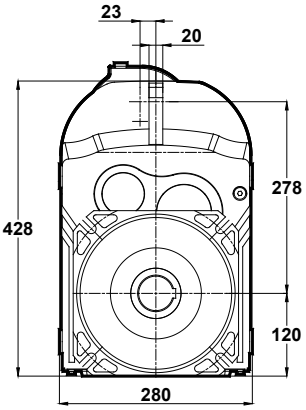
Optional Flange Dimensions

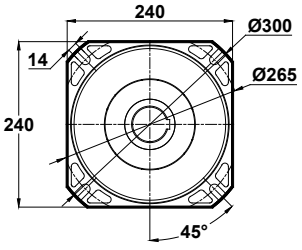


Please see on page 318 for other optional flange dimensions

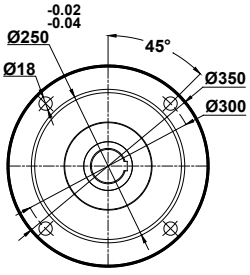
DT474.03



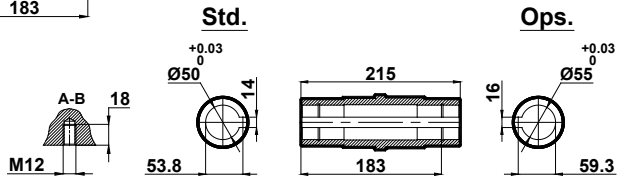




Optional Flange Dimensions

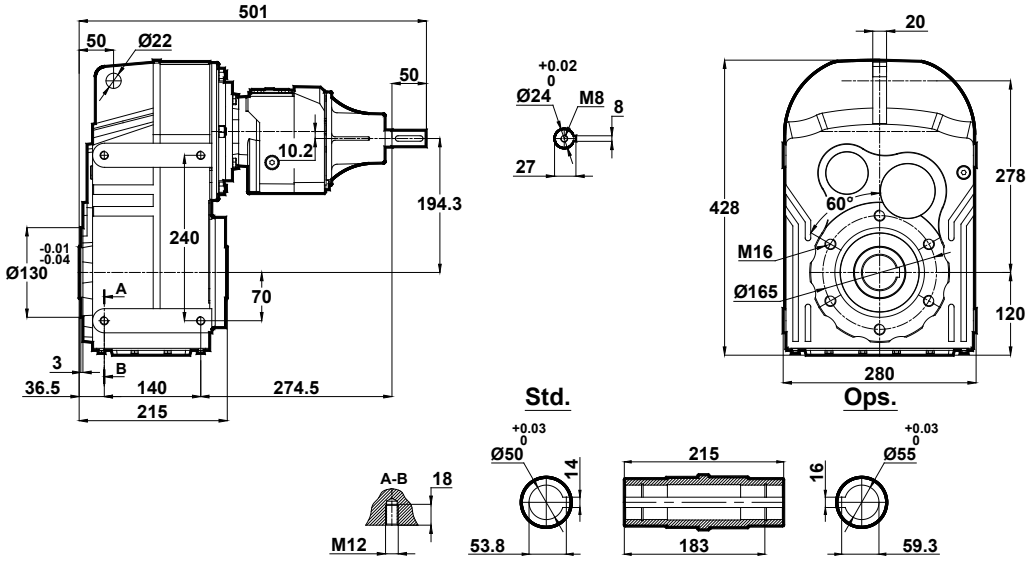


Please see on page 318 for other optional flange dimensions

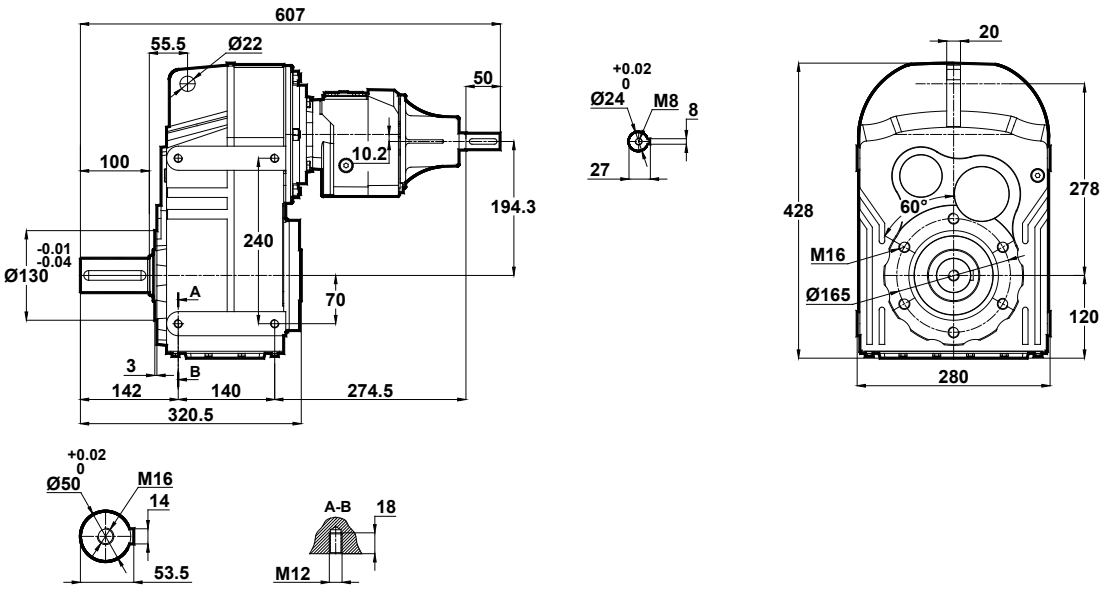


Tapped center hole according to DIN 332, sheet 2

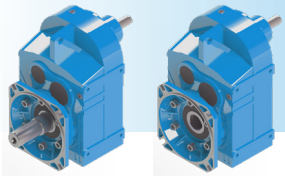
DT475.00
DT476.00



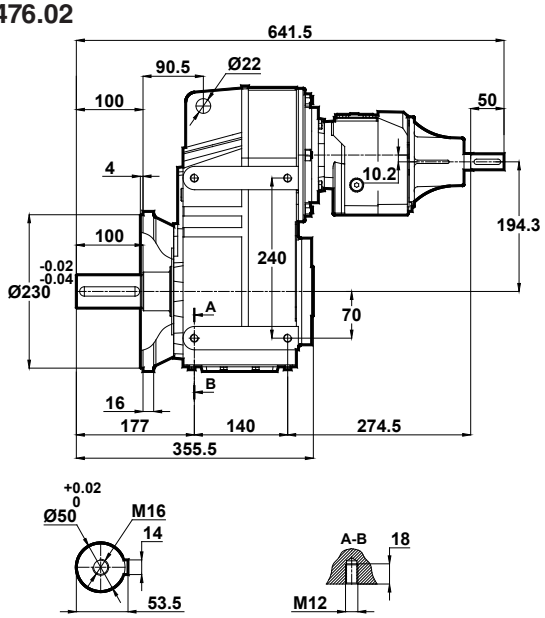
DT475.01
DT476.01

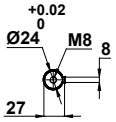


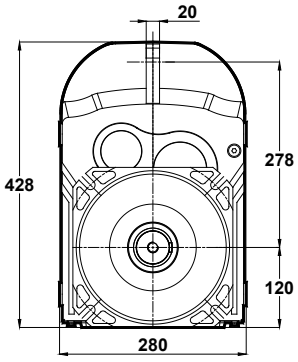
Tapped center hole according to DIN 332, sheet 2

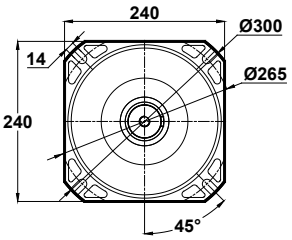


DT475.02
DT476.02

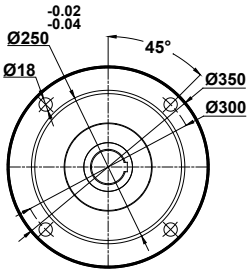






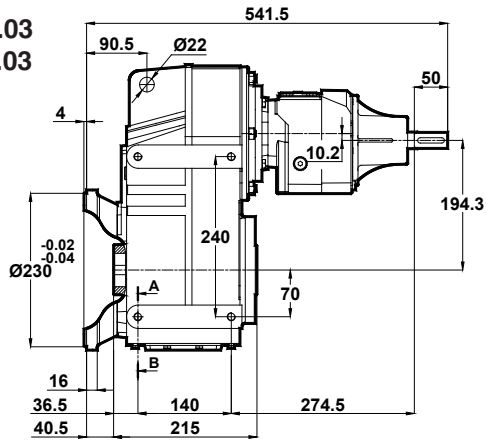


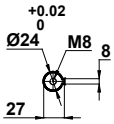
Optional Flange Dimensions

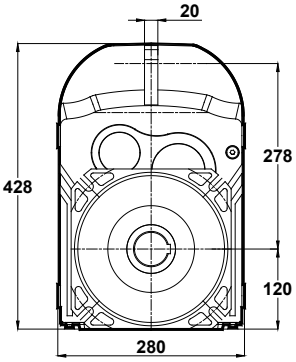


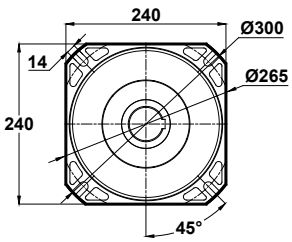
Please see on page 318 for other optional flange dimensions

DT475.03
DT476.03



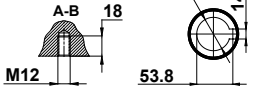


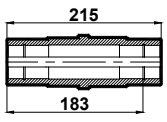




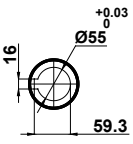
Optional Flange Dimensions

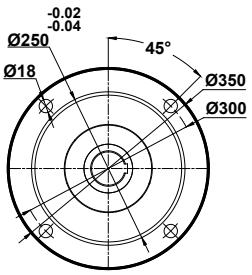
Std.





Ops.

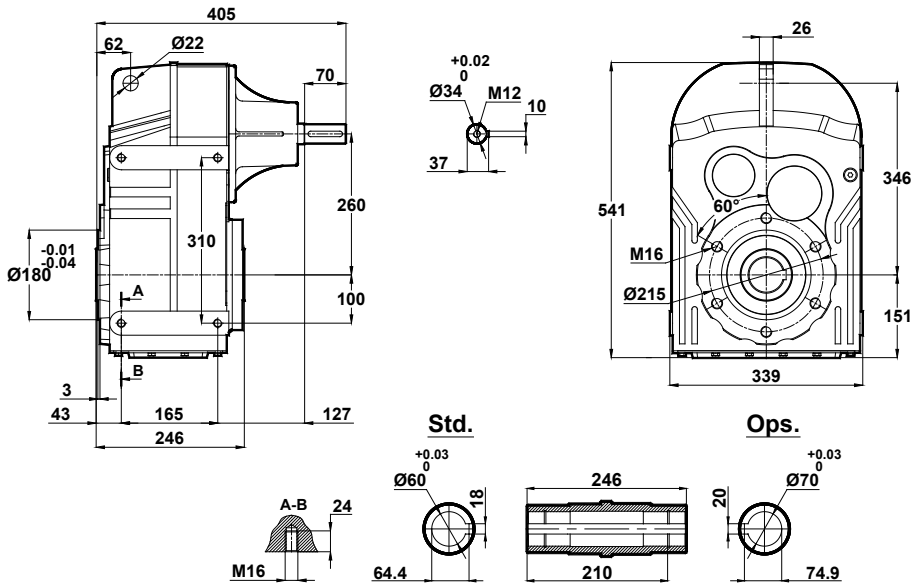




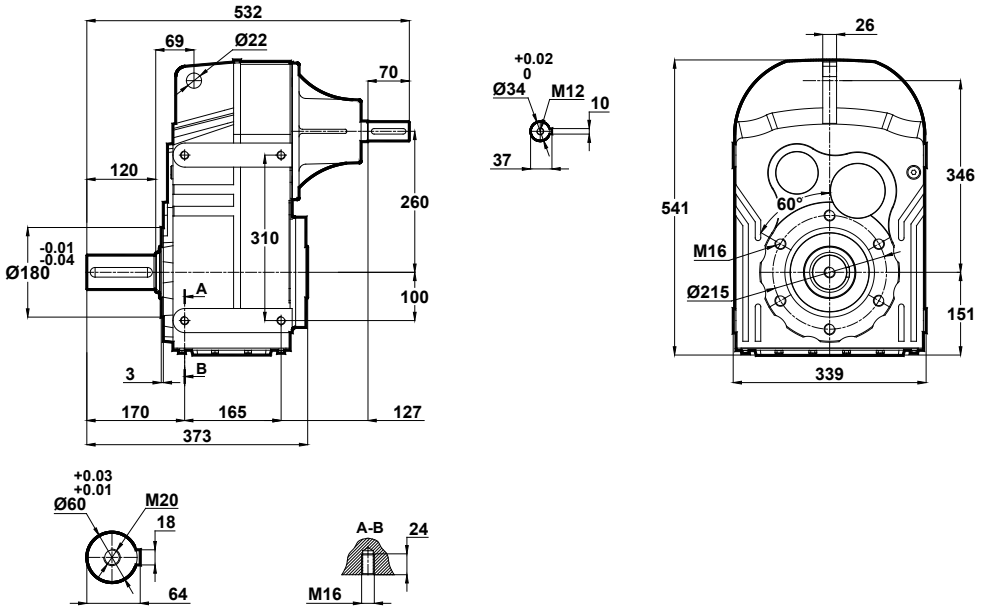
Tapped center hole according to DIN 332, sheet 2

Please see on page 318 for other optional flange dimensions

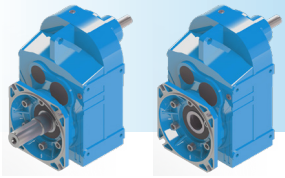
DT572.00
DT573.00



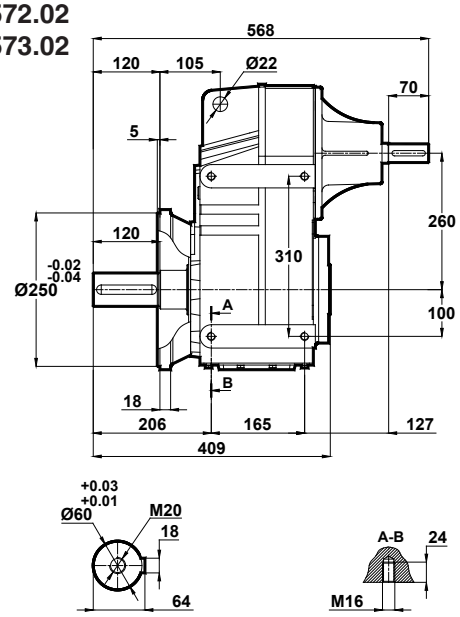
DT572.01
DT573.01



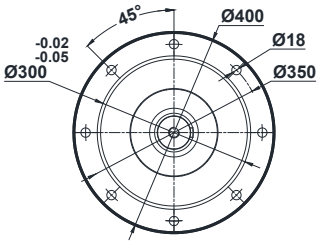
Tapped center hole according to DIN 332, sheet 2



DT572.02
DT573.02

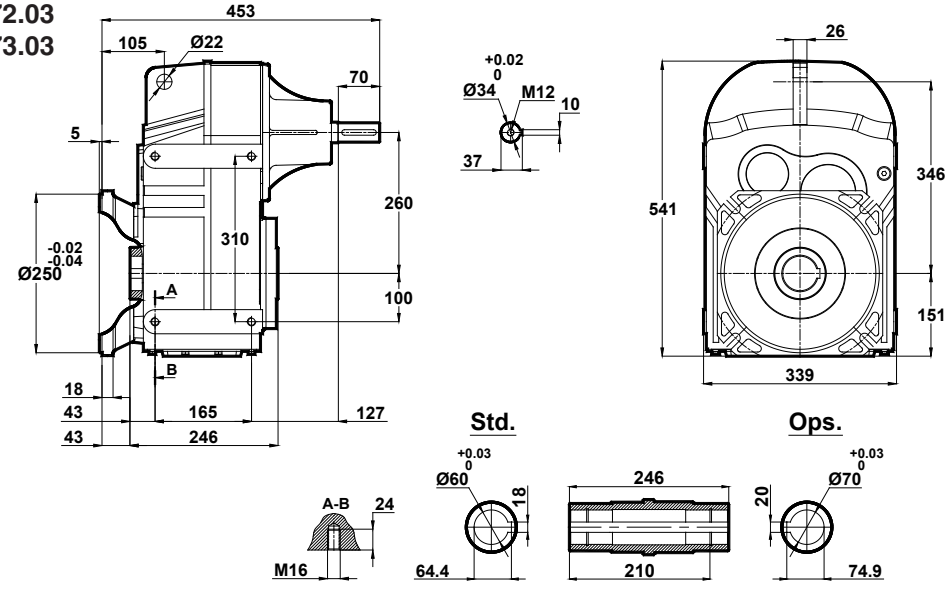


Optional Flange Dimensions

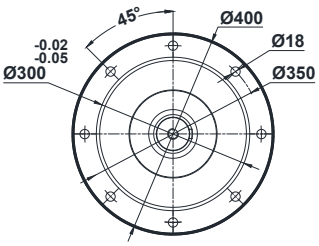


Please see on page 318 for other optional flange dimensions

DT572.03
DT573.03



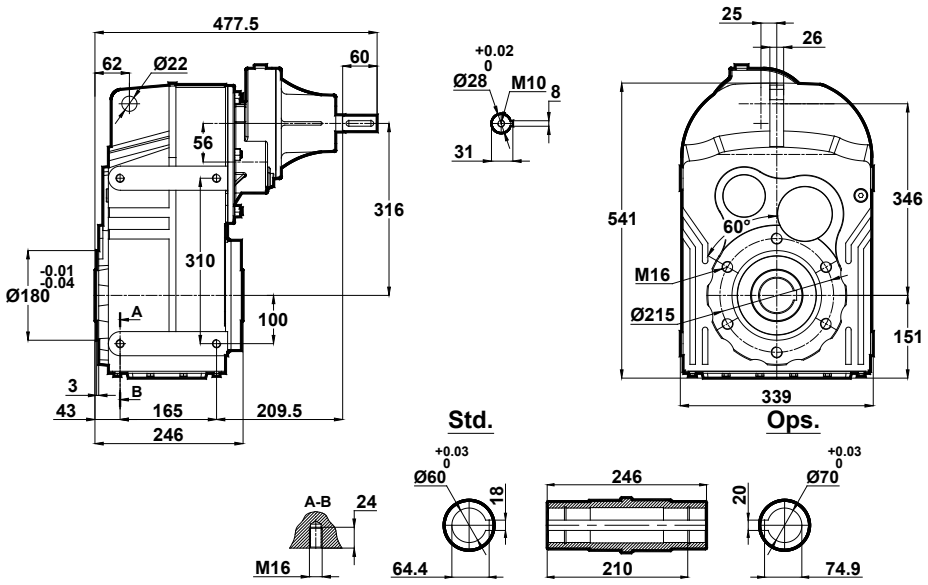
Optional Flange Dimensions



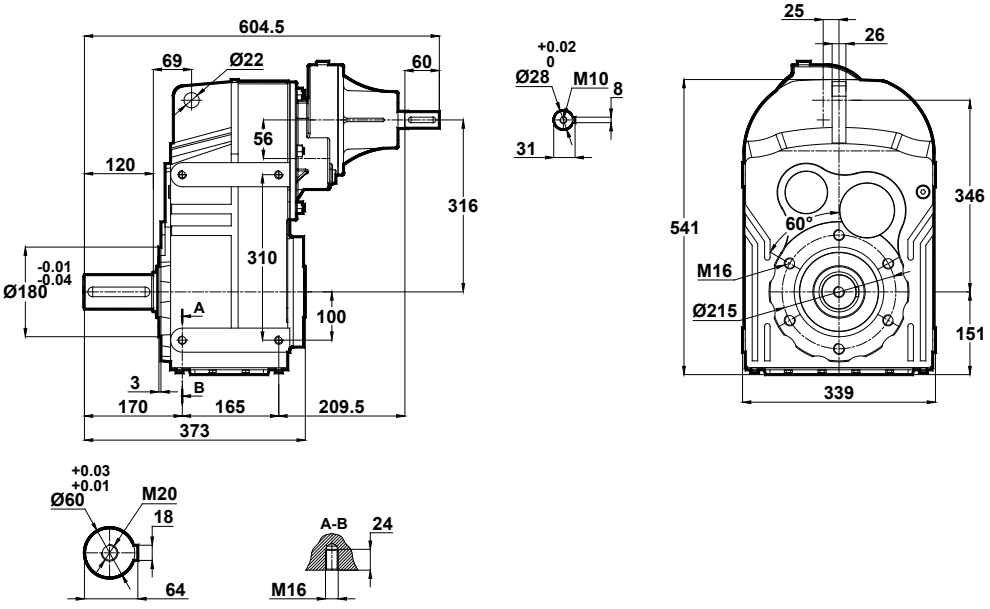
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

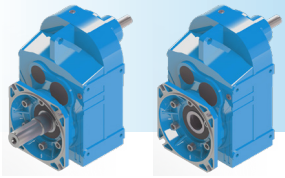
DT574.00



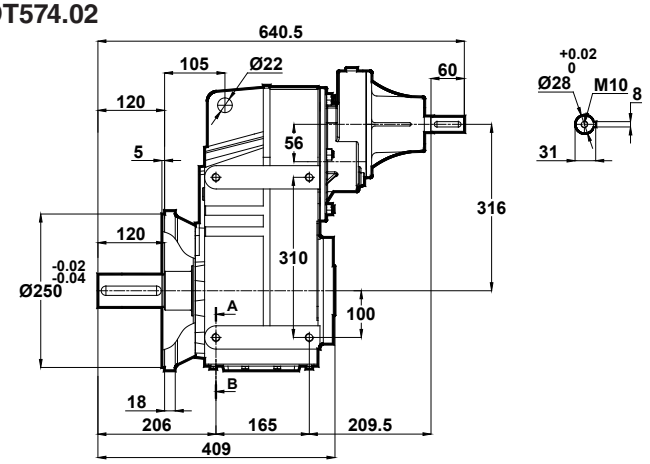
DT574.01

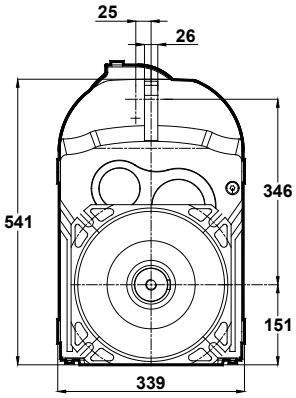


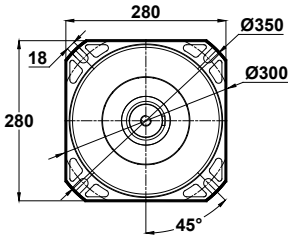
Tapped center hole according to DIN 332, sheet 2



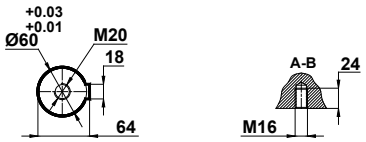
DT574.02

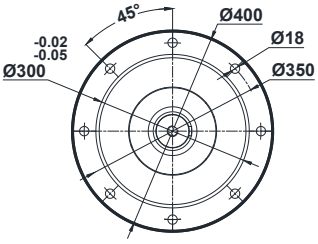






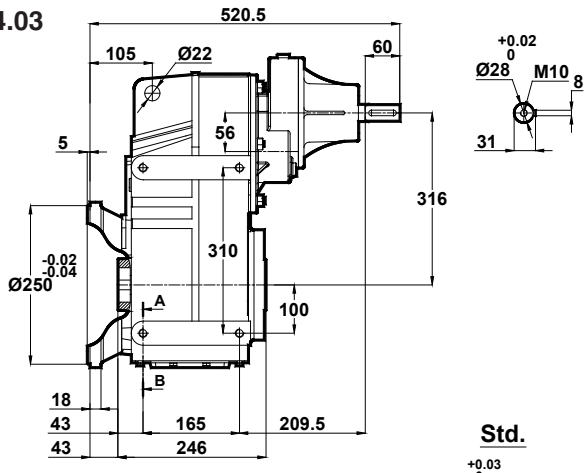
Optional Flange Dimensions

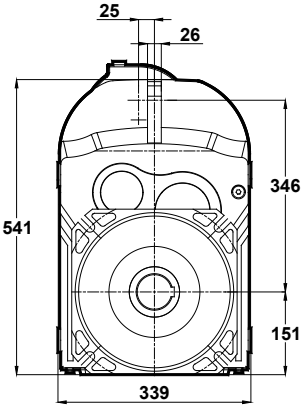


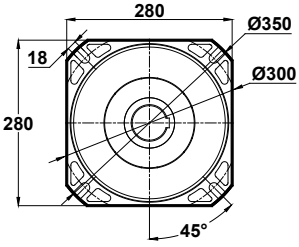


Please see on page 318 for other optional flange dimensions

DT574.03

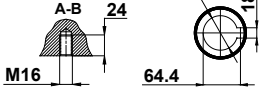


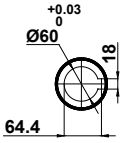




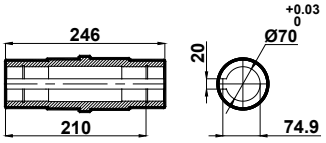
Optional Flange Dimensions

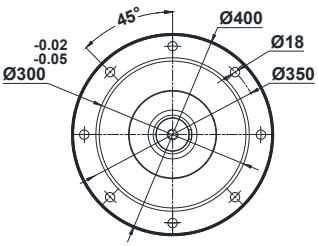
Std.





Ops.

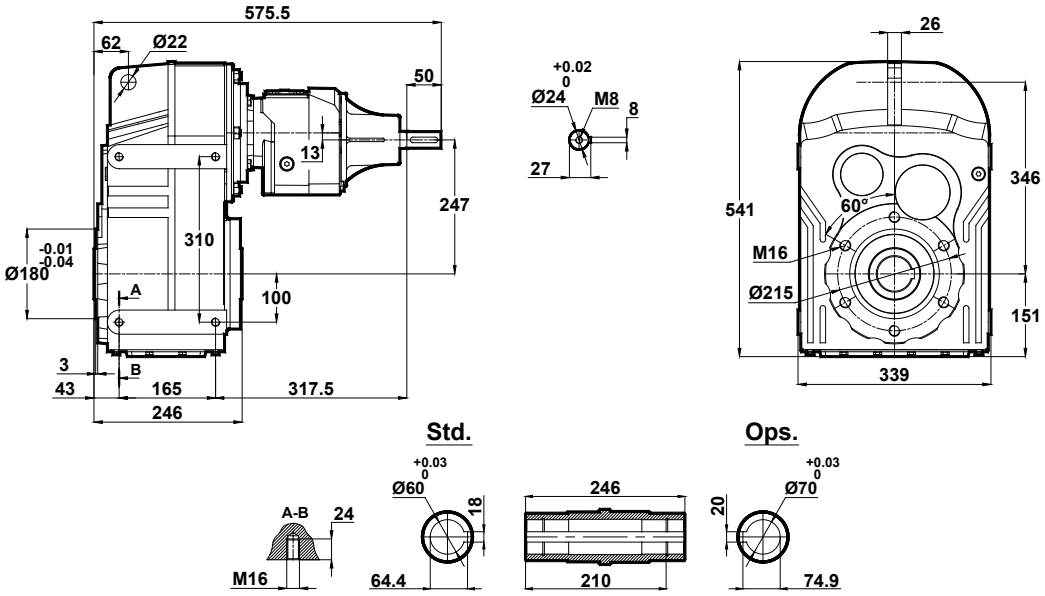




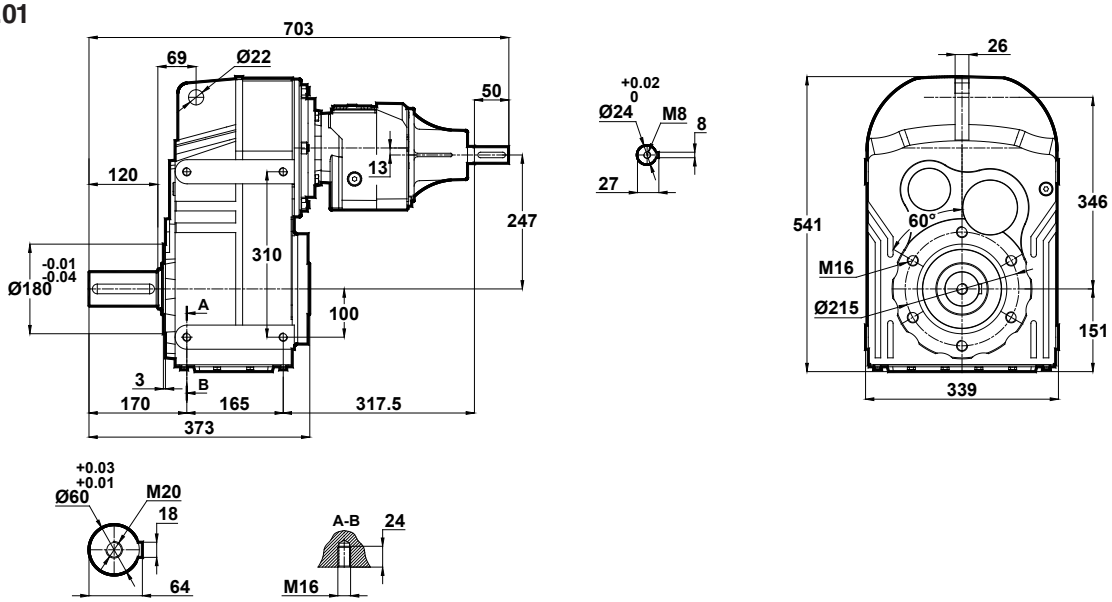
Tapped center hole according to DIN 332, sheet 2

Please see on page 318 for other optional flange dimensions

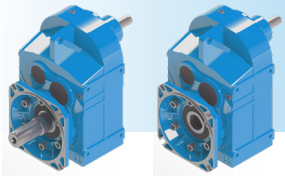
DT575.00
DT576.00



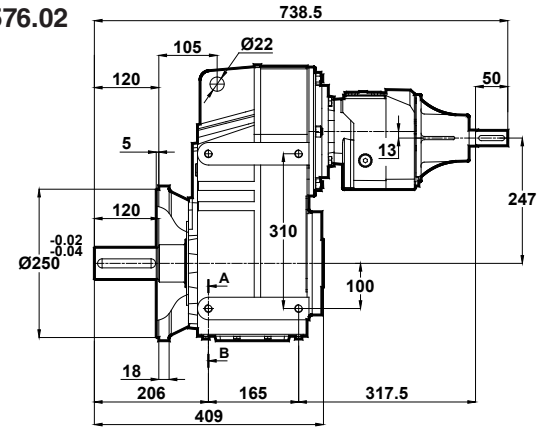
DT575.01
DT576.01

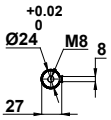


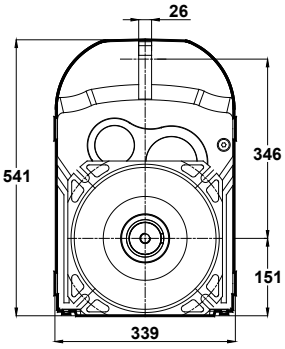
Tapped center hole according to DIN 332, sheet 2

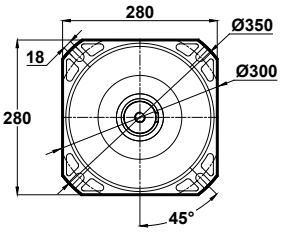


DT575.02
DT576.02

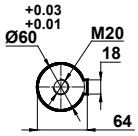


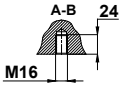


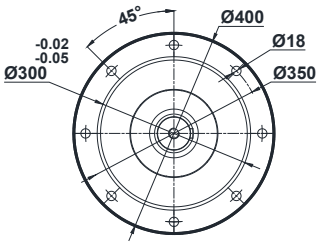




Optional Flange Dimensions

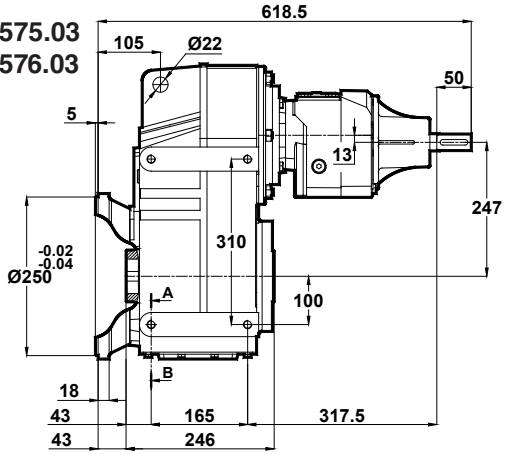


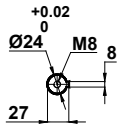


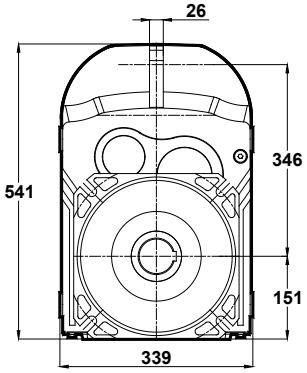


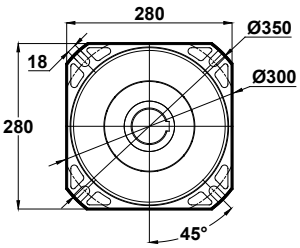
Please see on page 318 for other optional flange dimensions

DT575.03
DT576.03

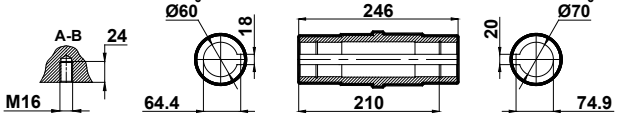




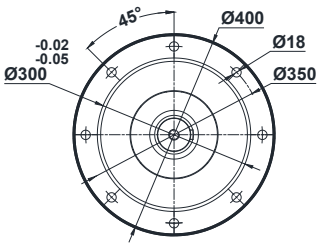




Std. **Ops.**



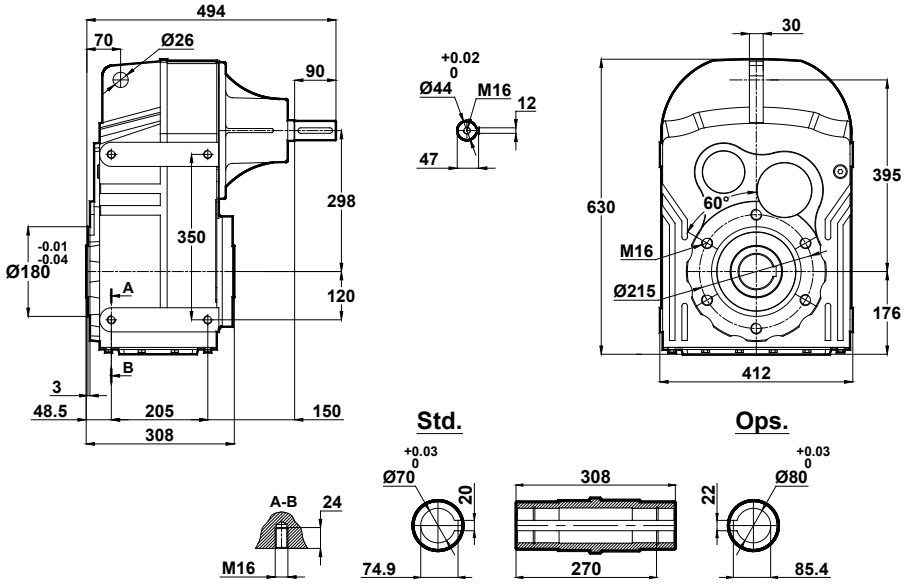
Optional Flange Dimensions



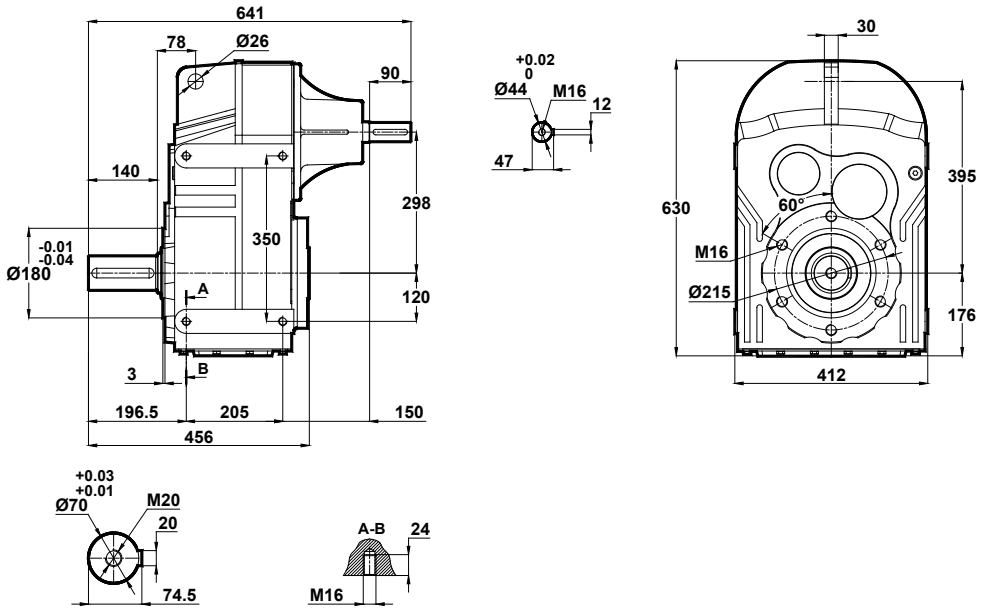
Tapped center hole according to DIN 332, sheet 2

Please see on page 318 for other optional flange dimensions

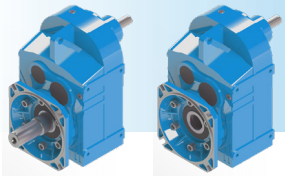
DT672.00
DT673.00



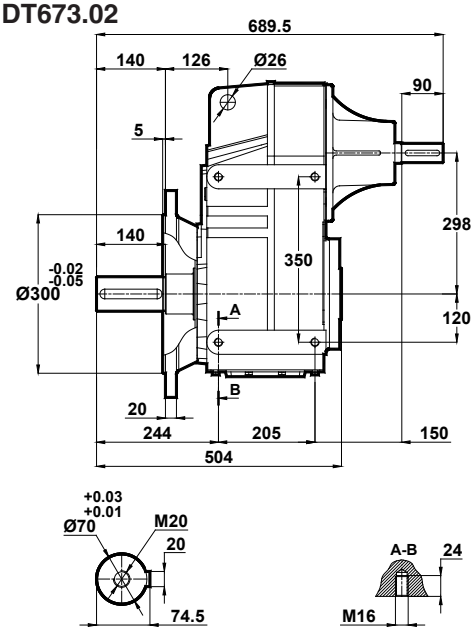
DT672.01
DT673.01

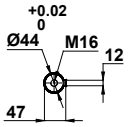


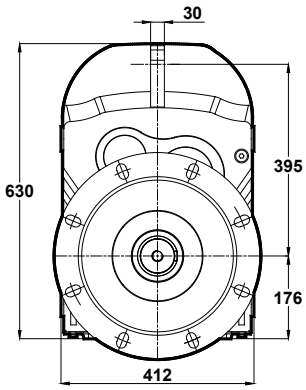
Tapped center hole according to DIN 332, sheet 2

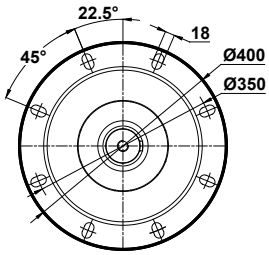


DT672.02
DT673.02

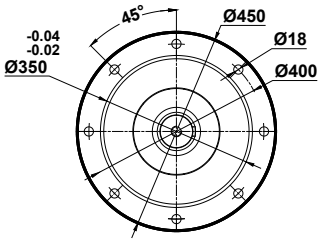






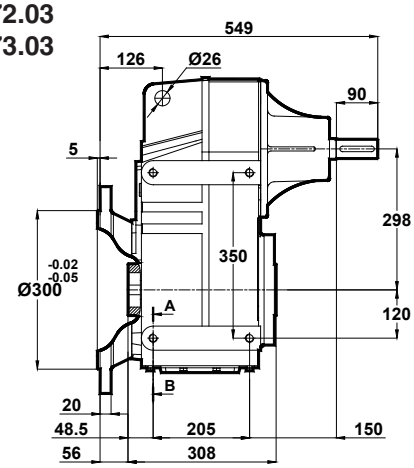


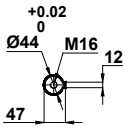
Optional Flange Dimensions

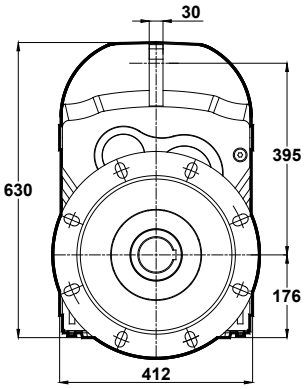


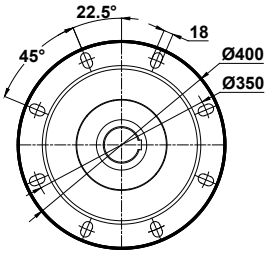
Please see on page 318 for other optional flange dimensions

DT672.03
DT673.03



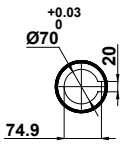


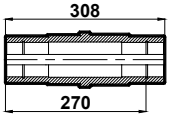




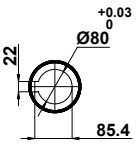
Optional Flange Dimensions

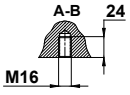
Std.

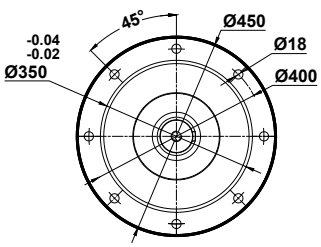




Ops.



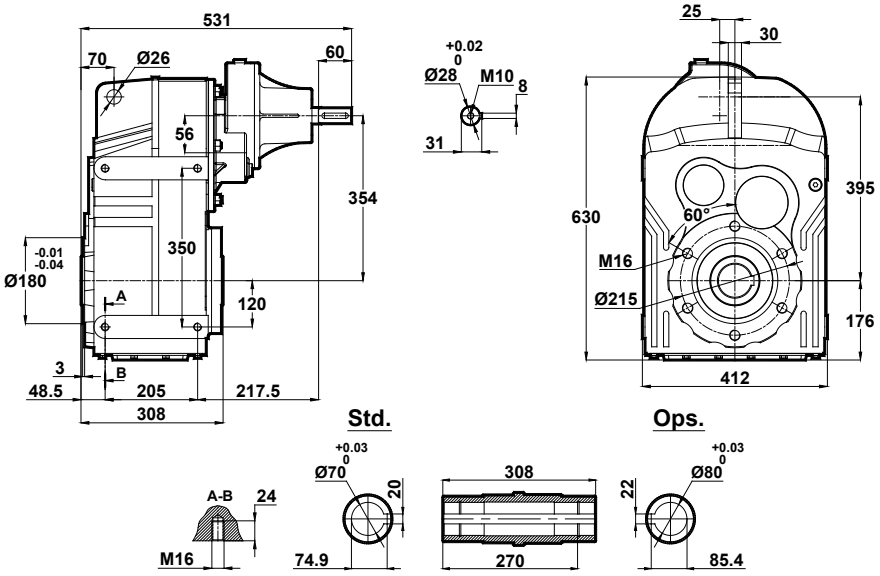




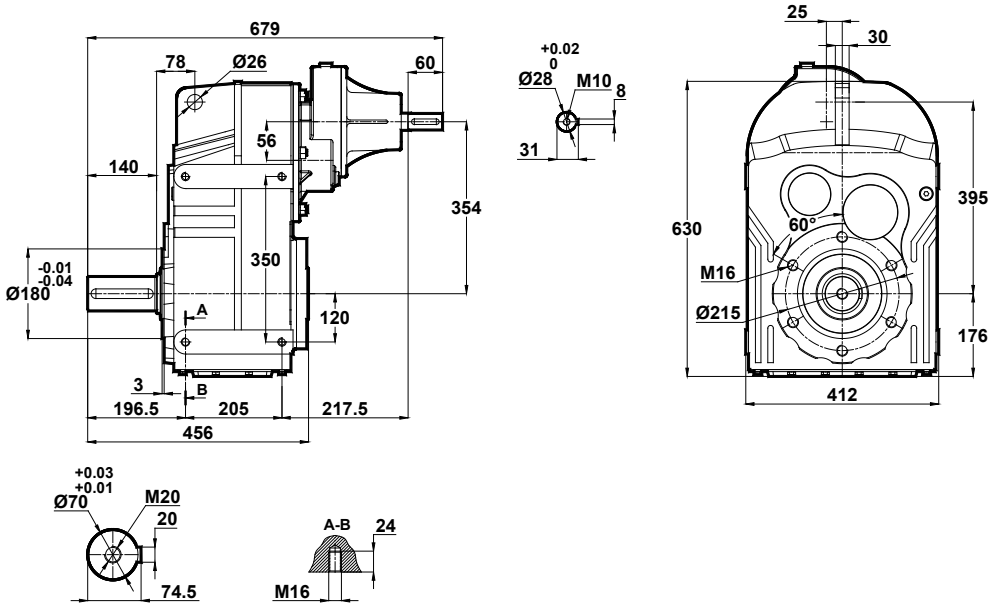
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

DT674.00

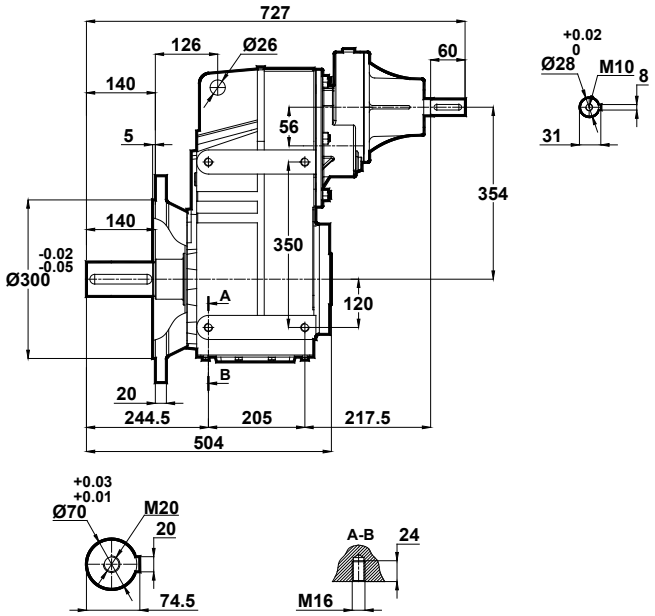


DT674.01

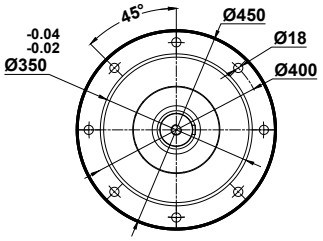


Tapped center hole according to DIN 332, sheet 2

DT674.02

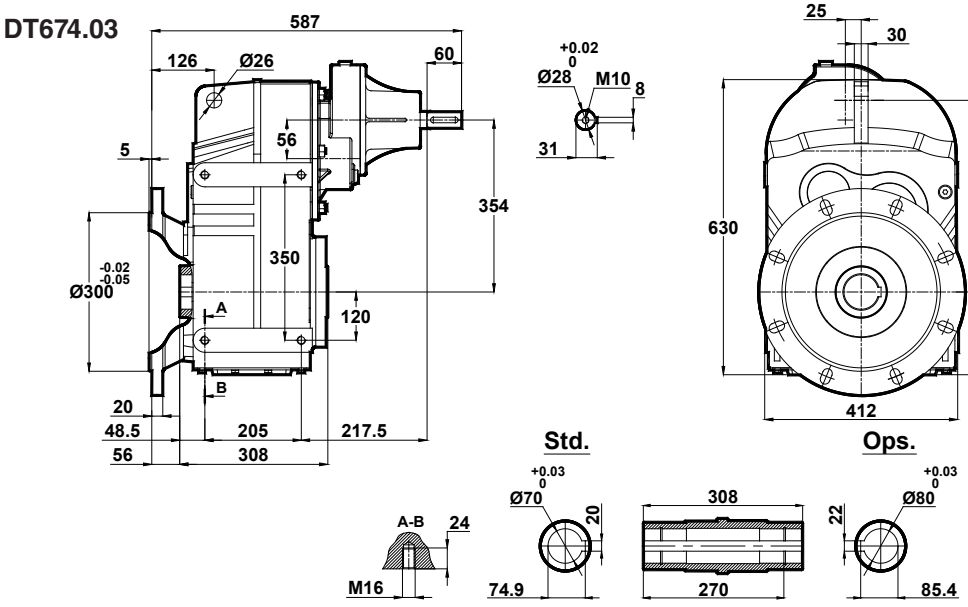


Optional Flange Dimensions

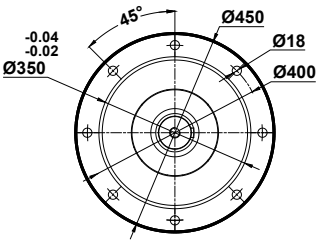


Please see on page 318 for other optional flange dimensions

DT674.03



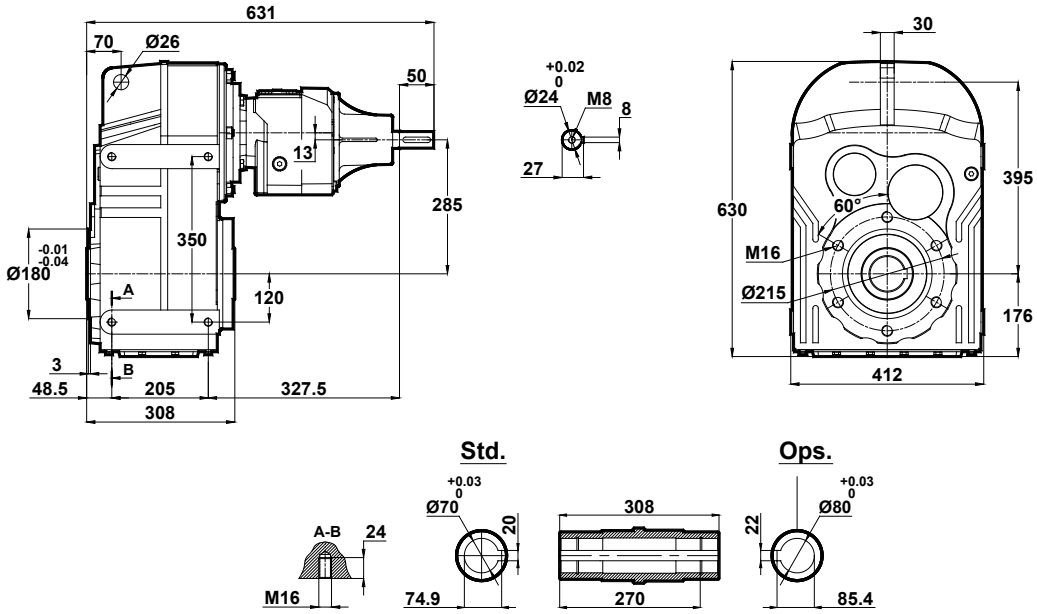
Optional Flange Dimensions



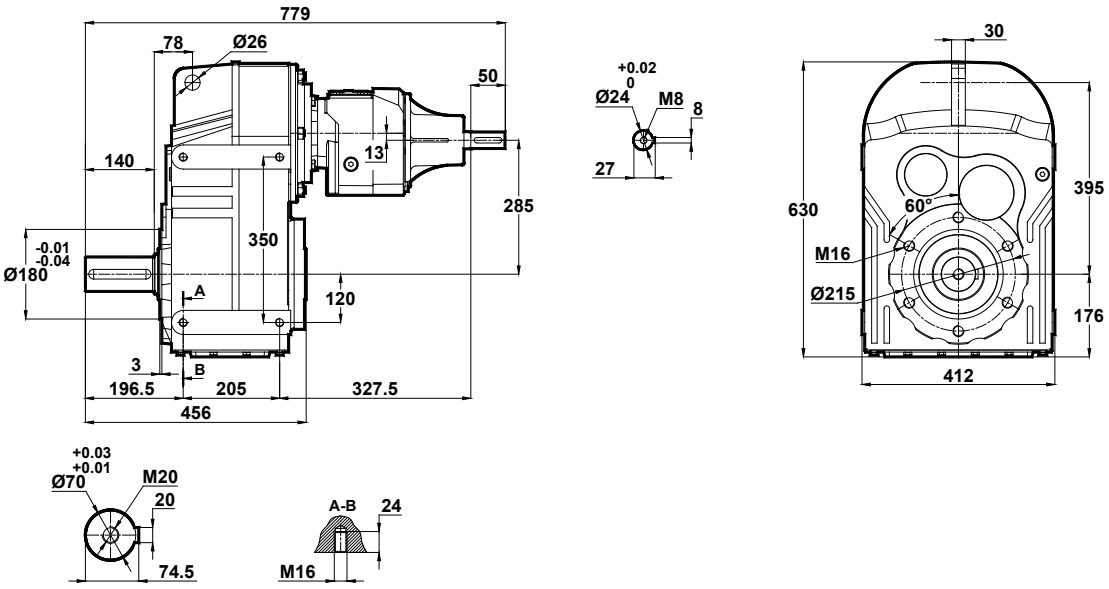
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

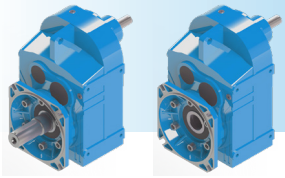
DT675.00
DT676.00



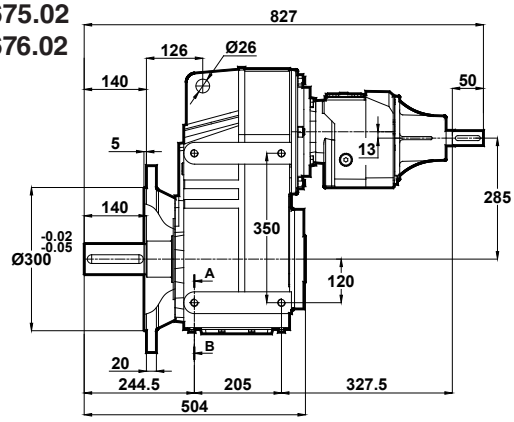
DT675.01
DT676.01

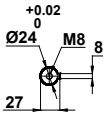


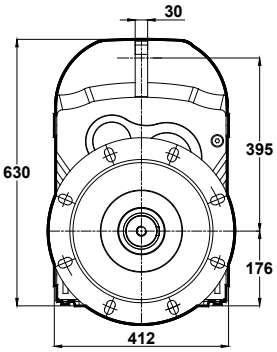
Tapped center hole according to DIN 332, sheet 2

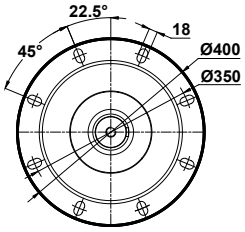


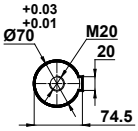
DT675.02
DT676.02

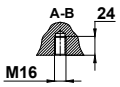




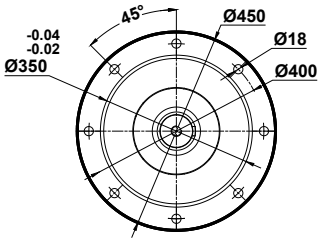






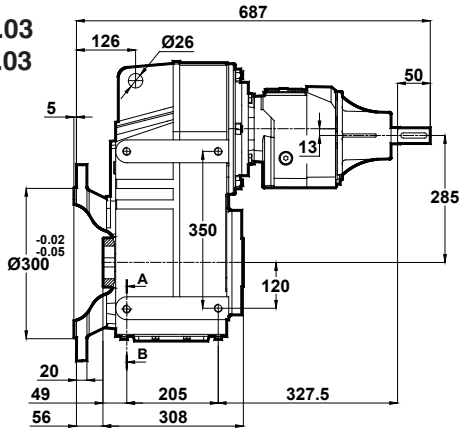


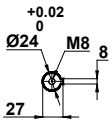
Optional Flange Dimensions

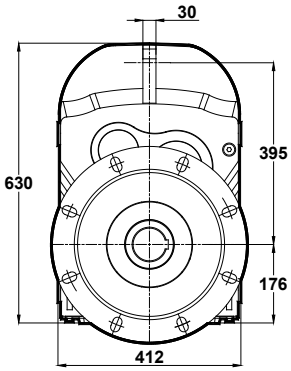


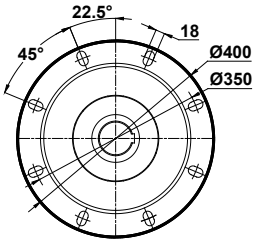
Please see on page 318 for other optional flange dimensions

DT675.03
DT676.03

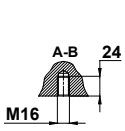


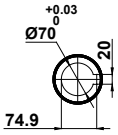


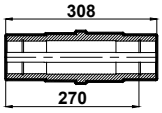




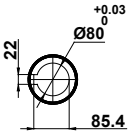
Std.



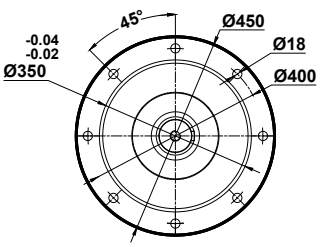




Ops.



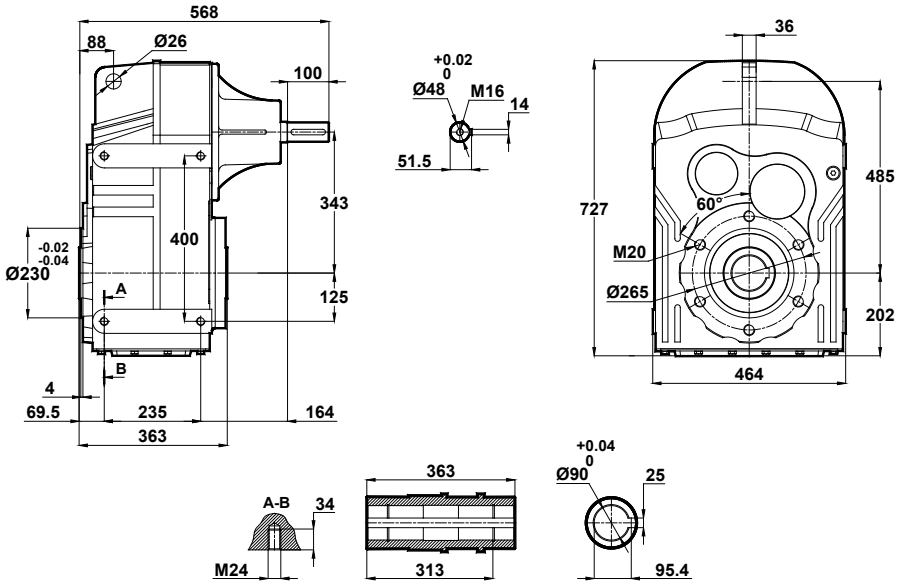
Optional Flange Dimensions



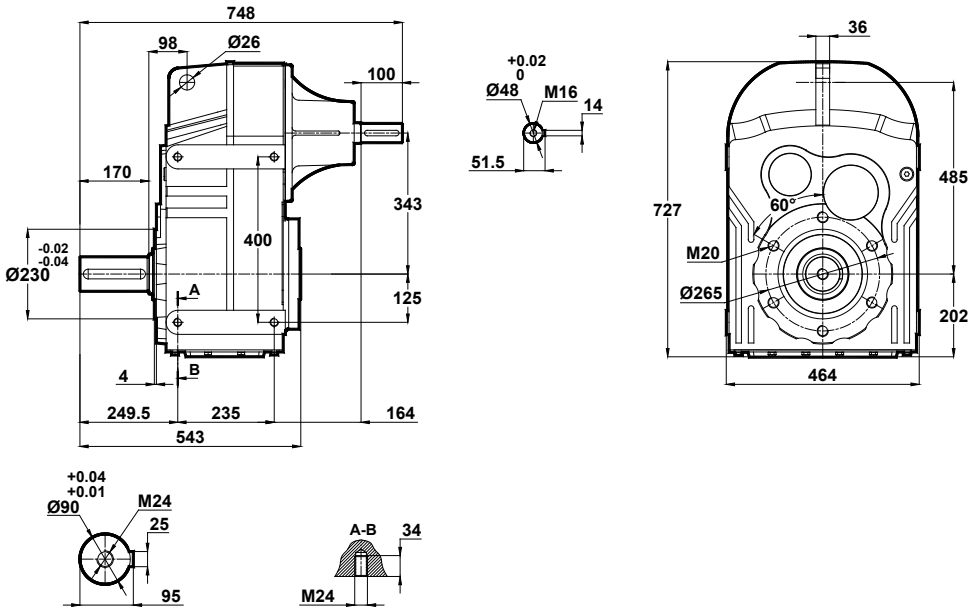
Please see on page 318 for other optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

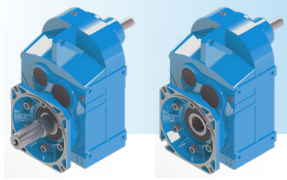
DT772.00
DT773.00



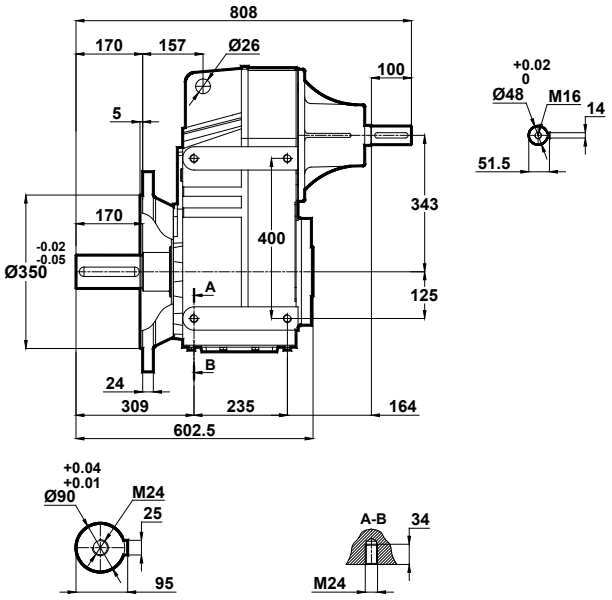
DT772.01
DT773.01



Tapped center hole according to DIN 332, sheet 2

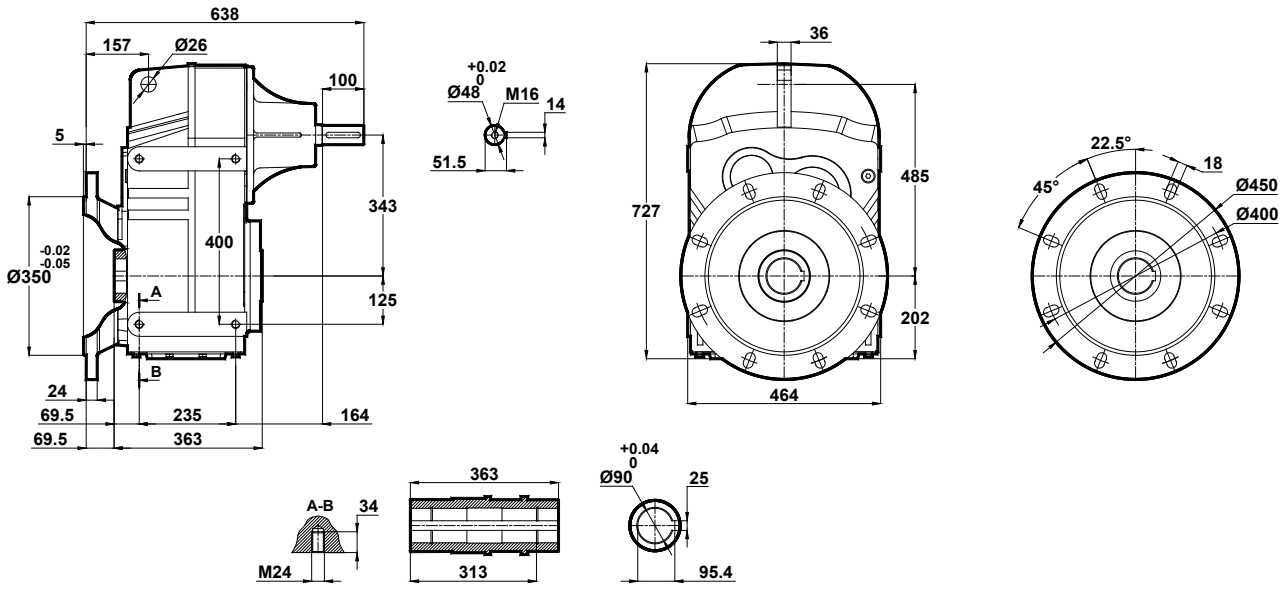


DT772.02
DT773.02



Please see on page 318 for optional flange dimensions

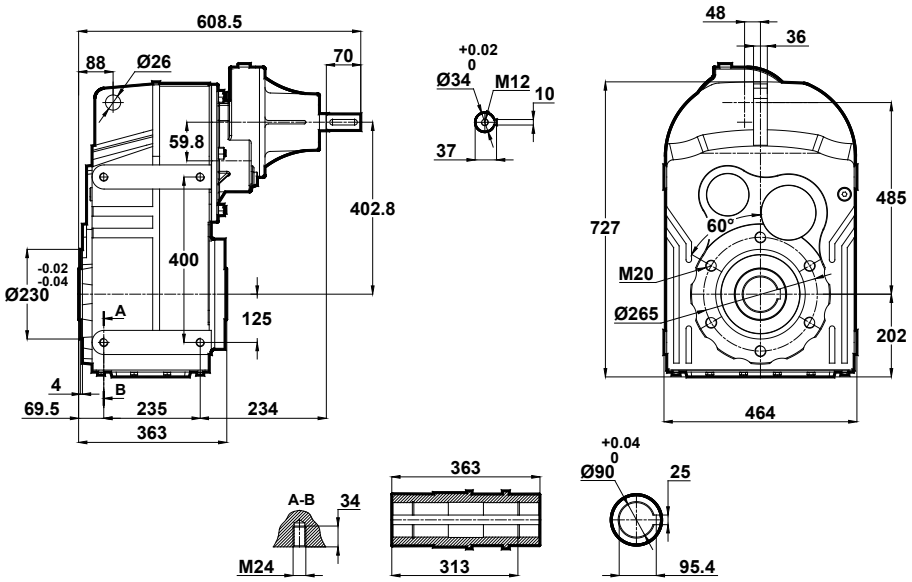
DT772.03
DT773.03



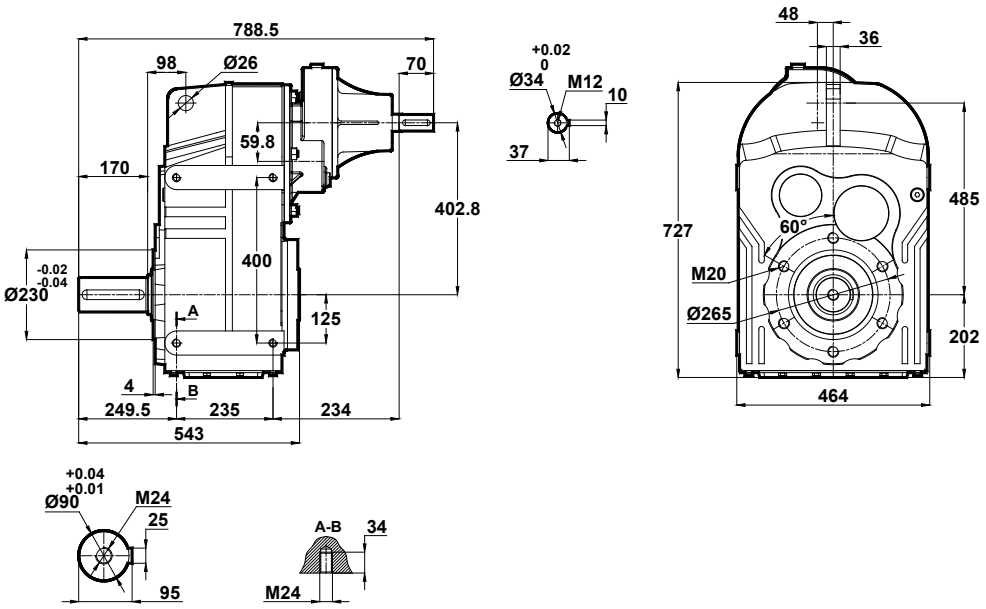
Please see on page 318 for optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

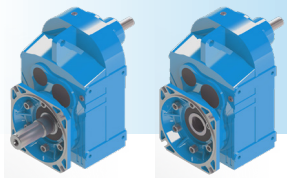
DT774.00



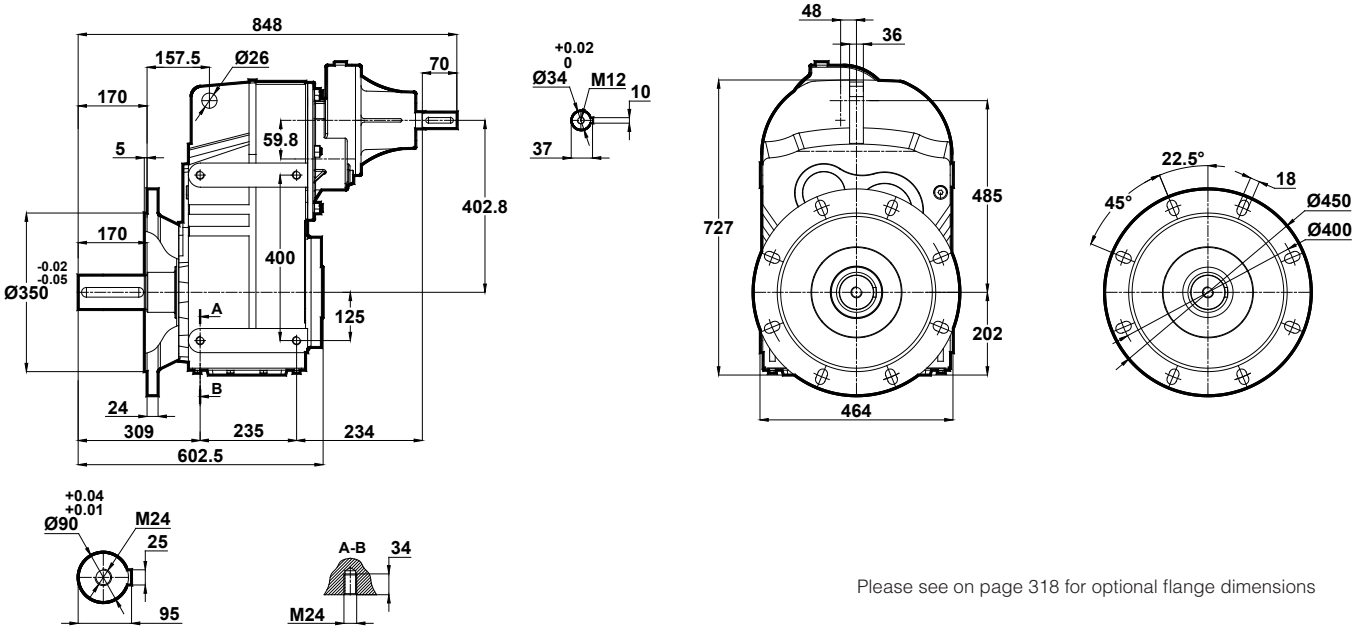
DT774.01



Tapped center hole according to DIN 332, sheet 2

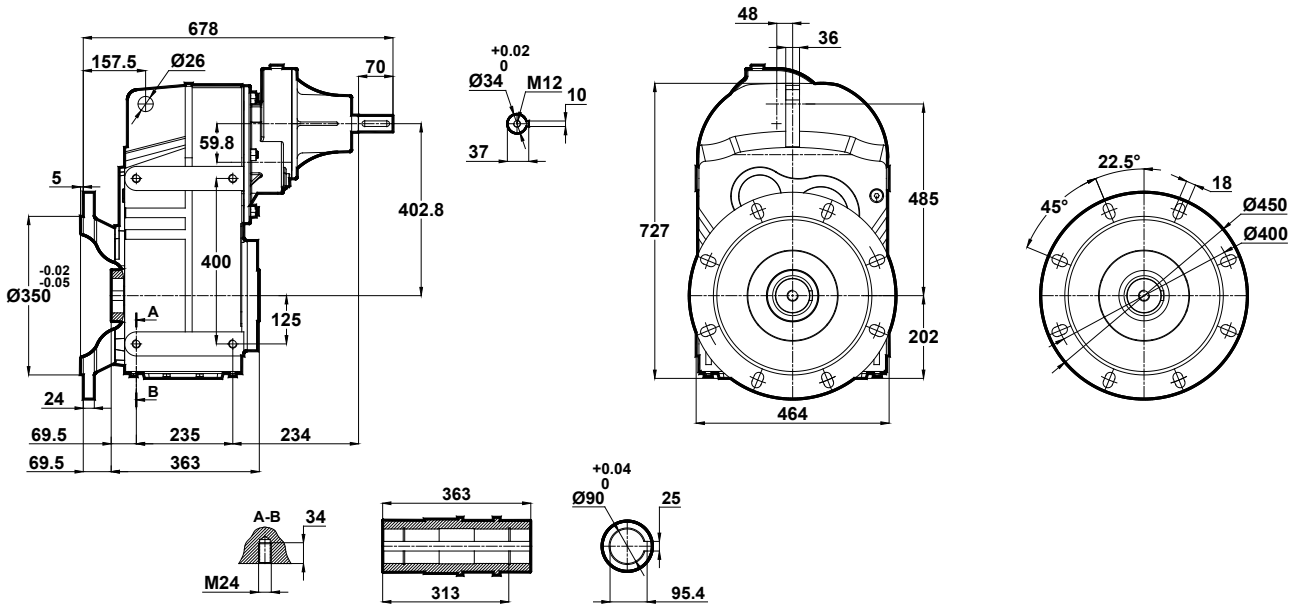


DT774.02



Please see on page 318 for optional flange dimensions

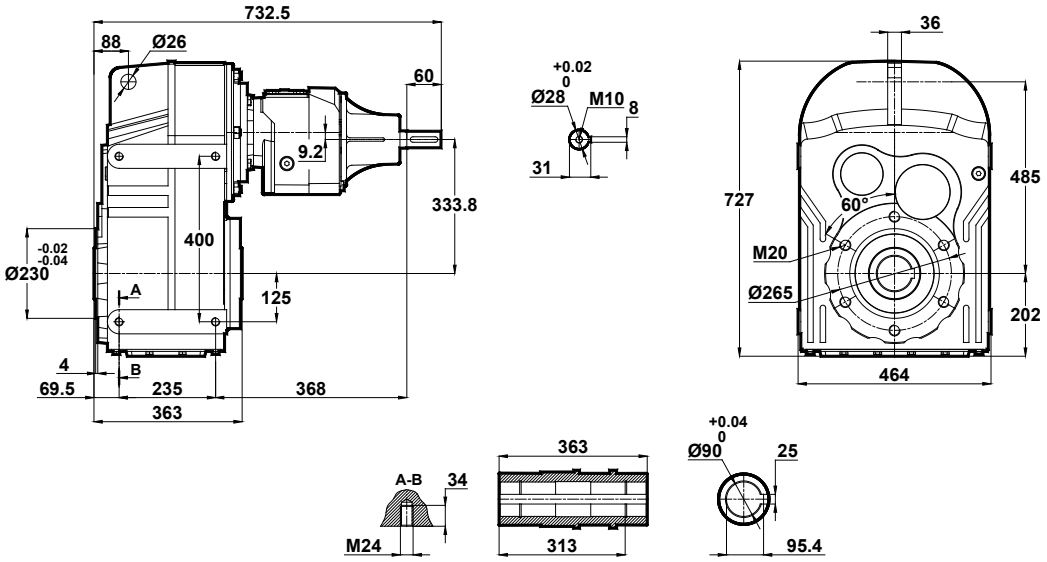
DT774.03



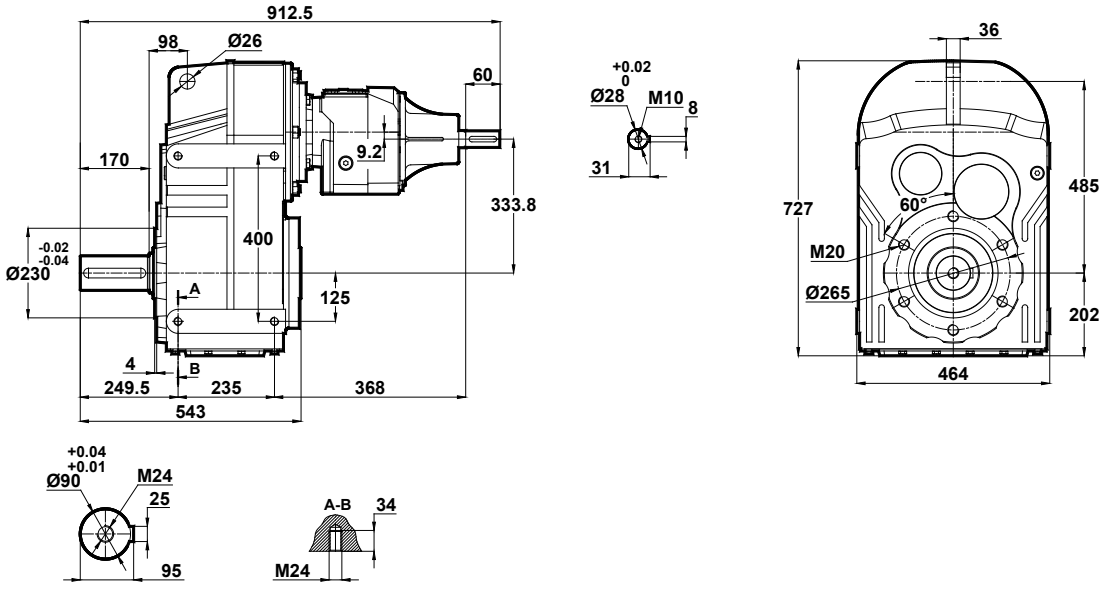
Please see on page 318 for optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

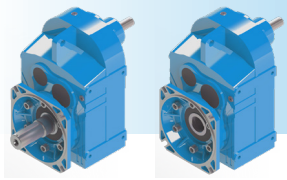
DT775.00
DT776.00



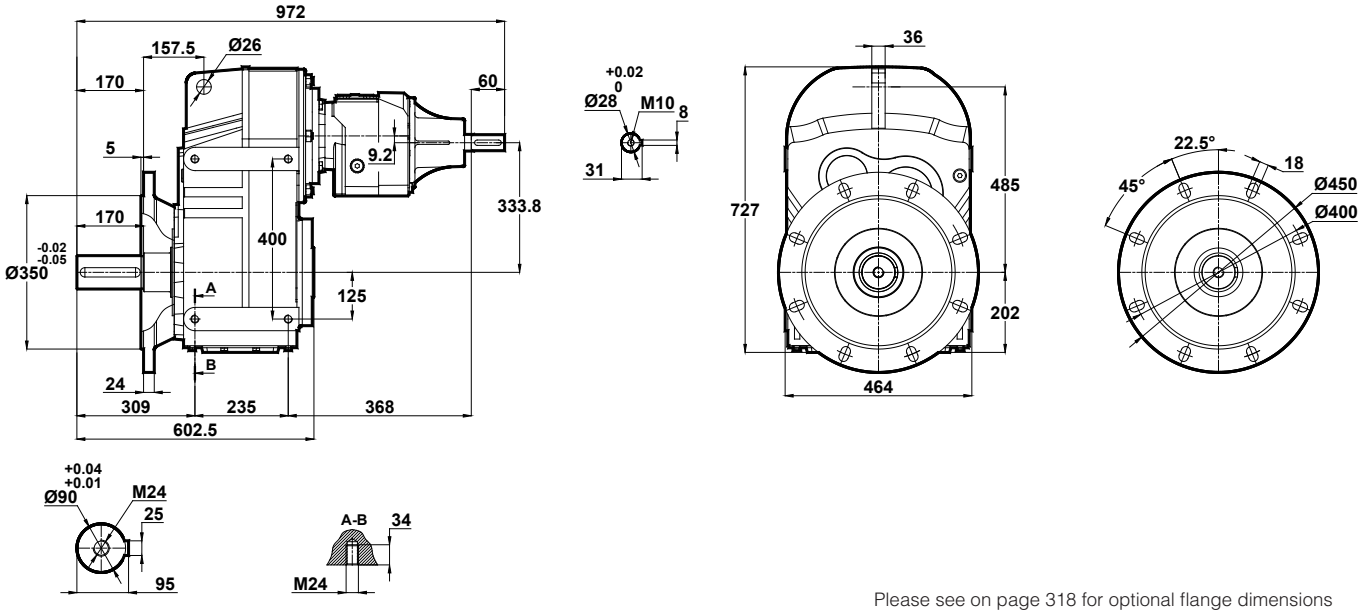
DT775.01
DT776.01



Tapped center hole according to DIN 332, sheet 2

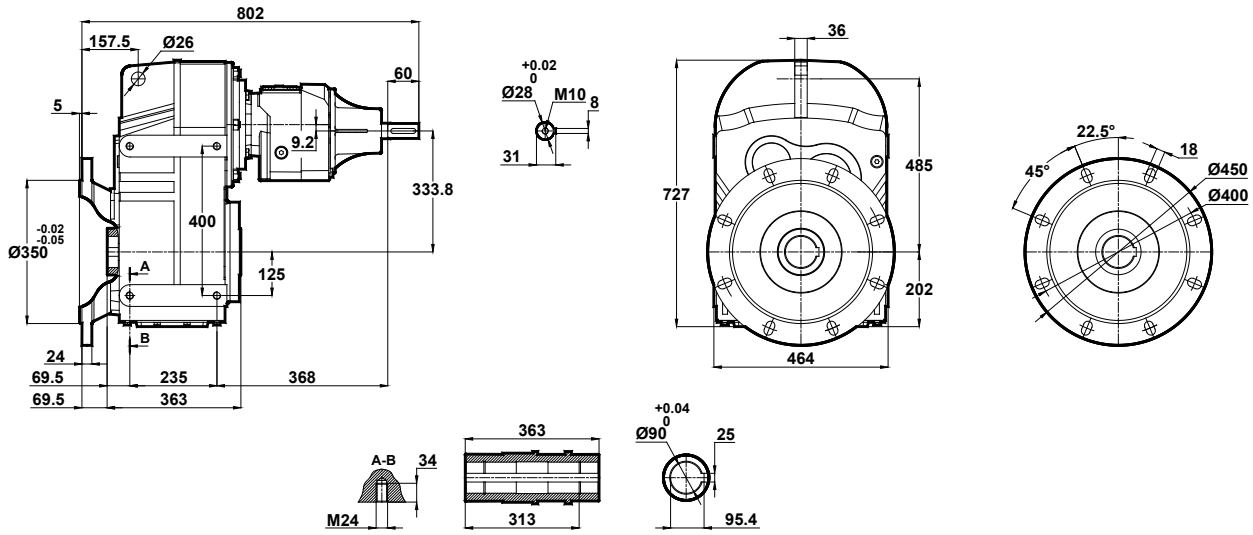


DT775.02
DT776.02



Please see on page 318 for optional flange dimensions

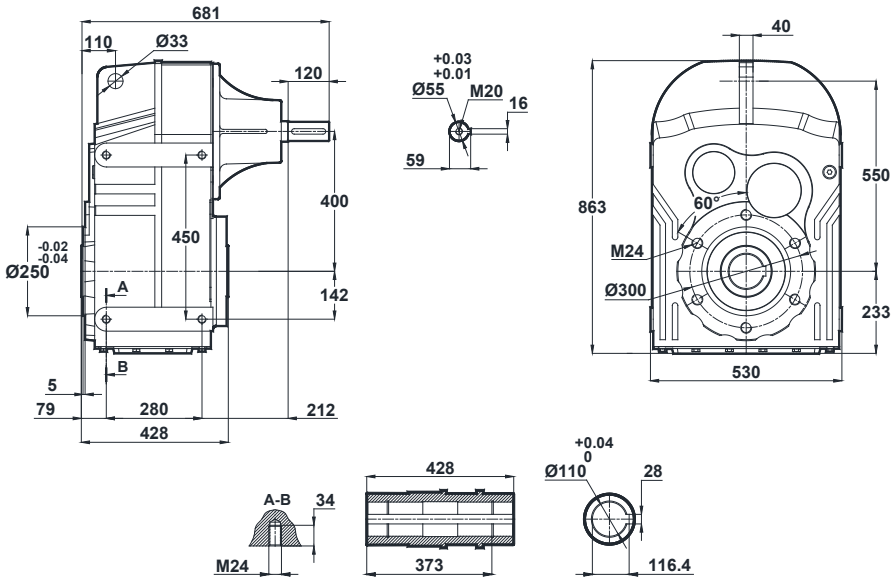
DT775.03
DT776.03



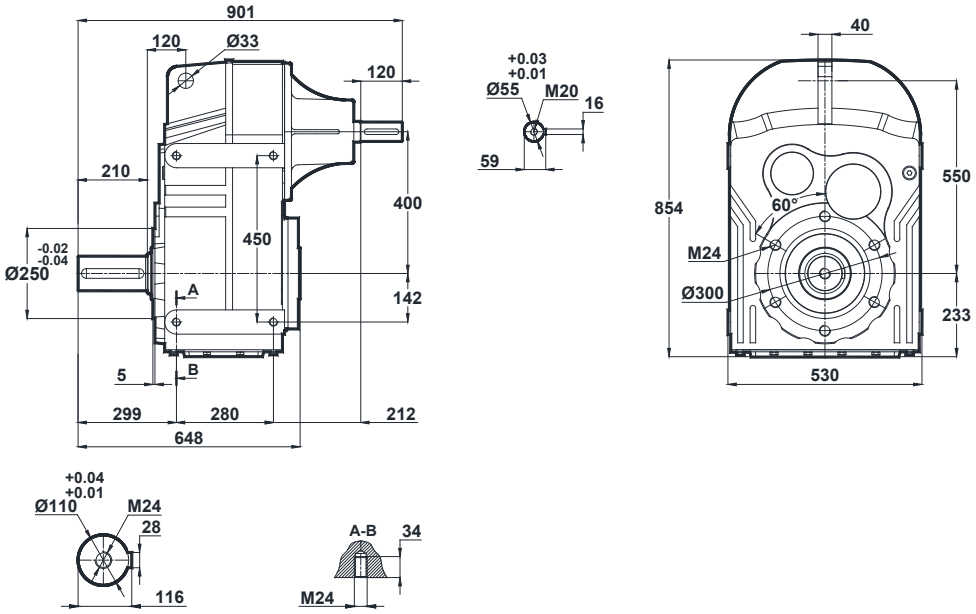
Please see on page 318 for optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

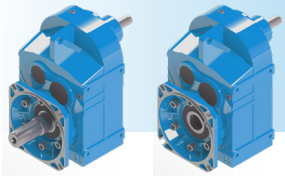
DT872.00
DT873.00



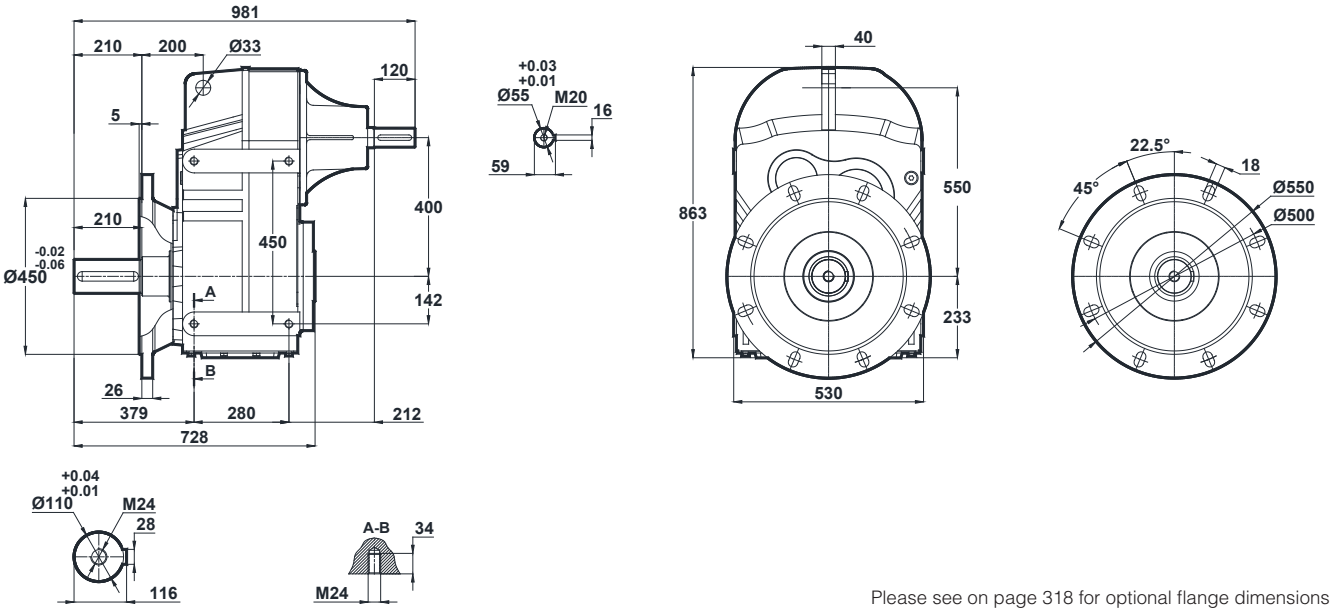
DT872.01
DT873.01



Tapped center hole according to DIN 332, sheet 2

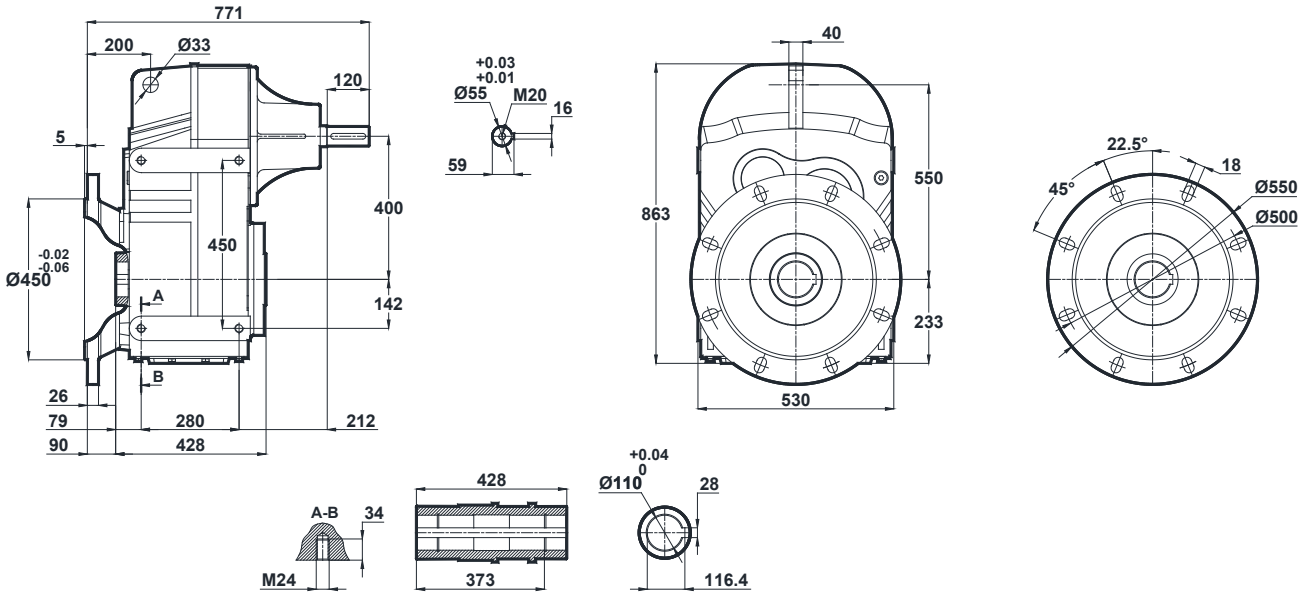


DT872.02
DT873.02



Please see on page 318 for optional flange dimensions

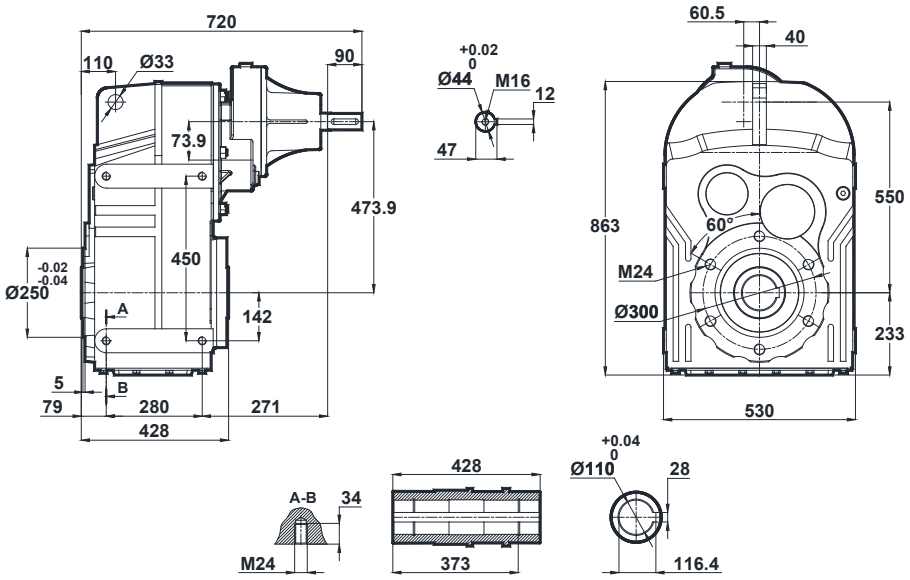
DT872.03
DT873.03



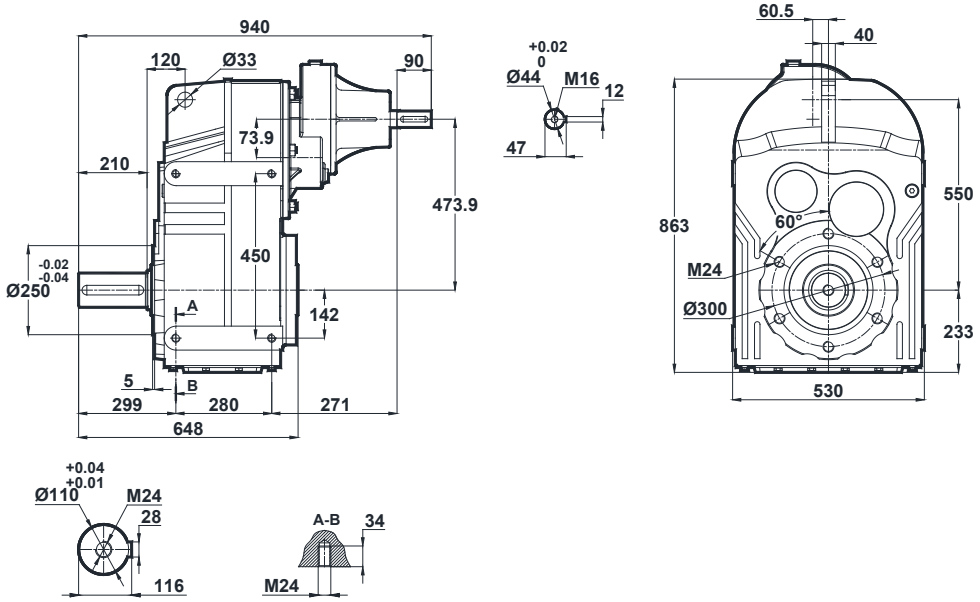
Please see on page 318 for optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

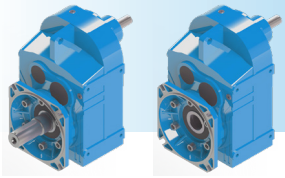
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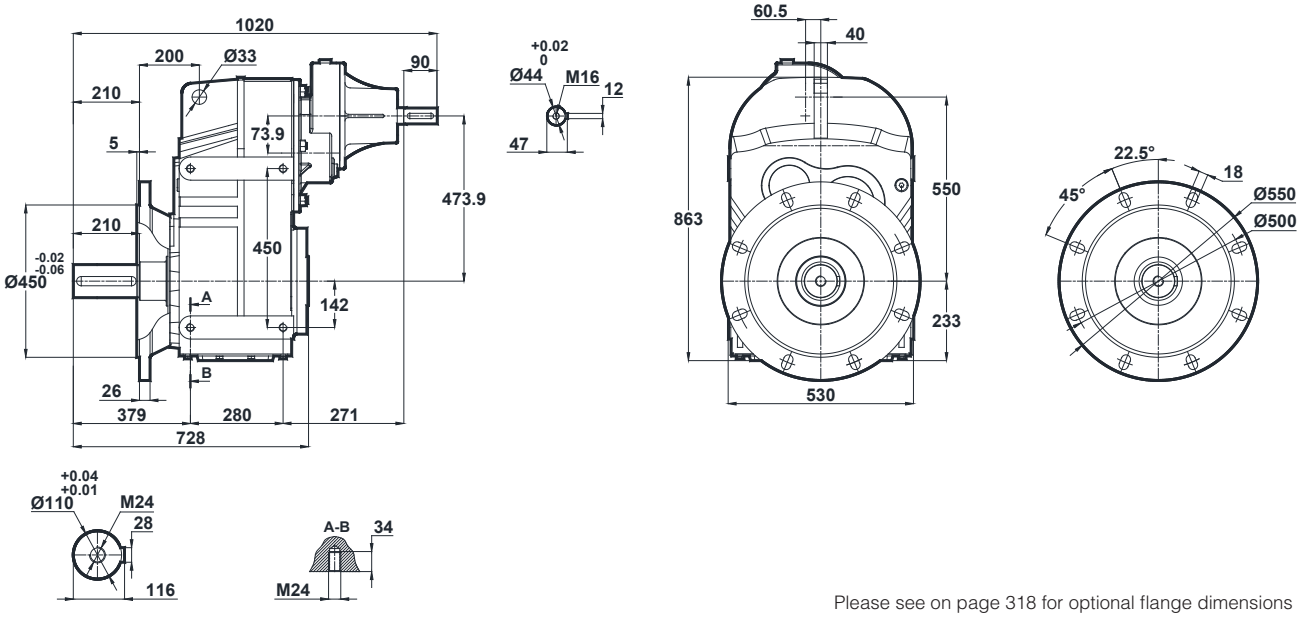
DT874.01



Tapped center hole according to DIN 332, sheet 2

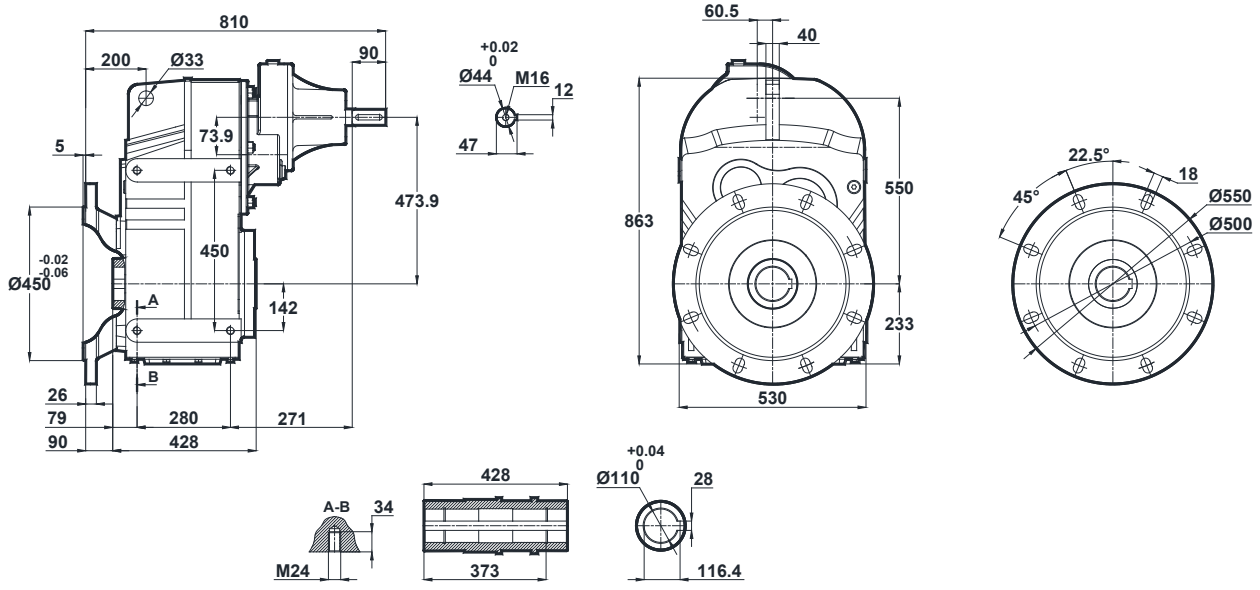


DT874.02



Please see on page 318 for optional flange dimensions

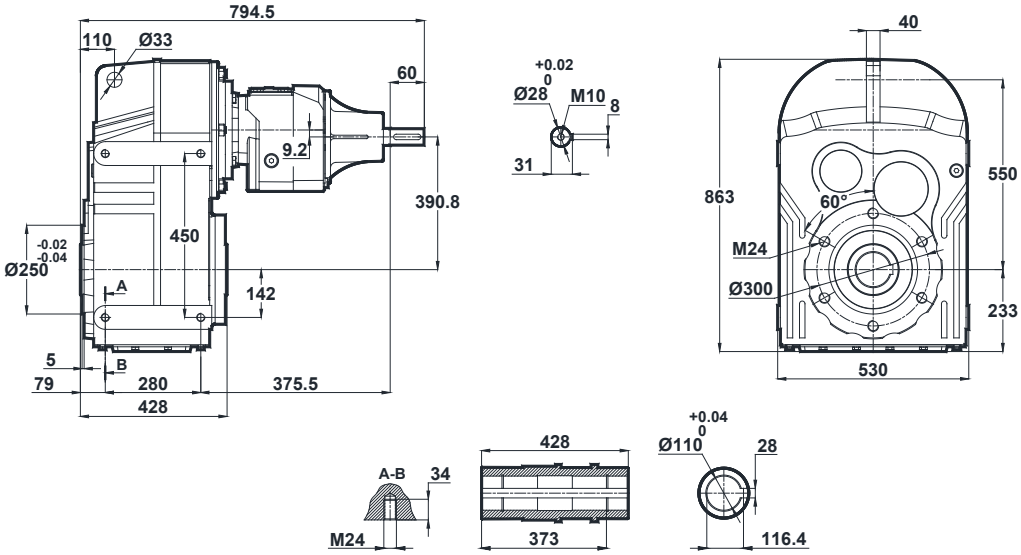
DT874.03



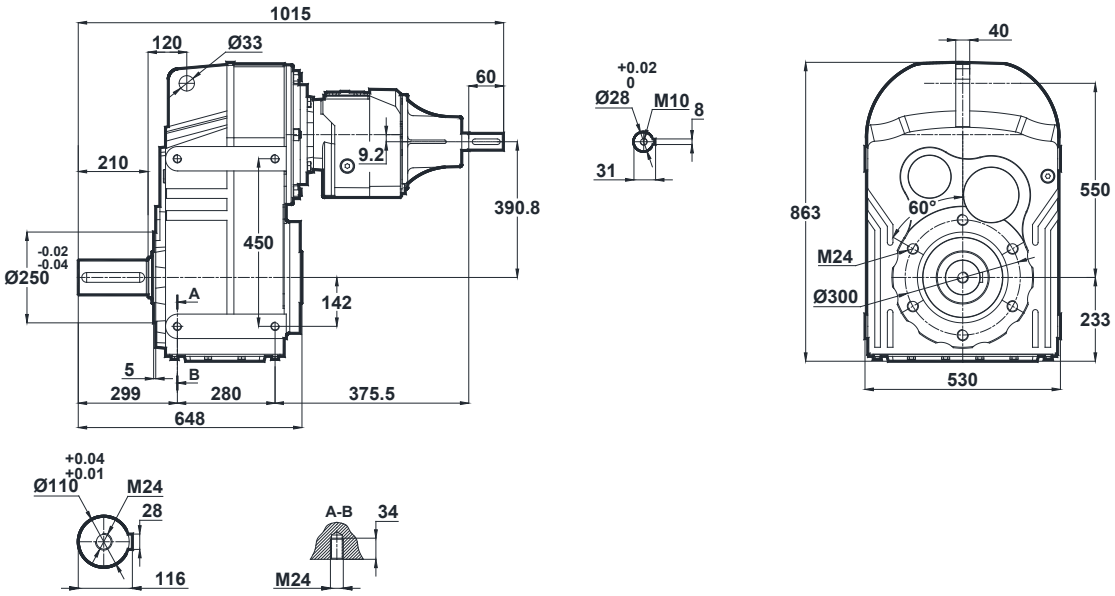
Please see on page 318 for optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

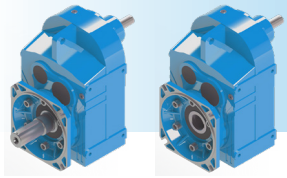
DT875.00
DT876.00



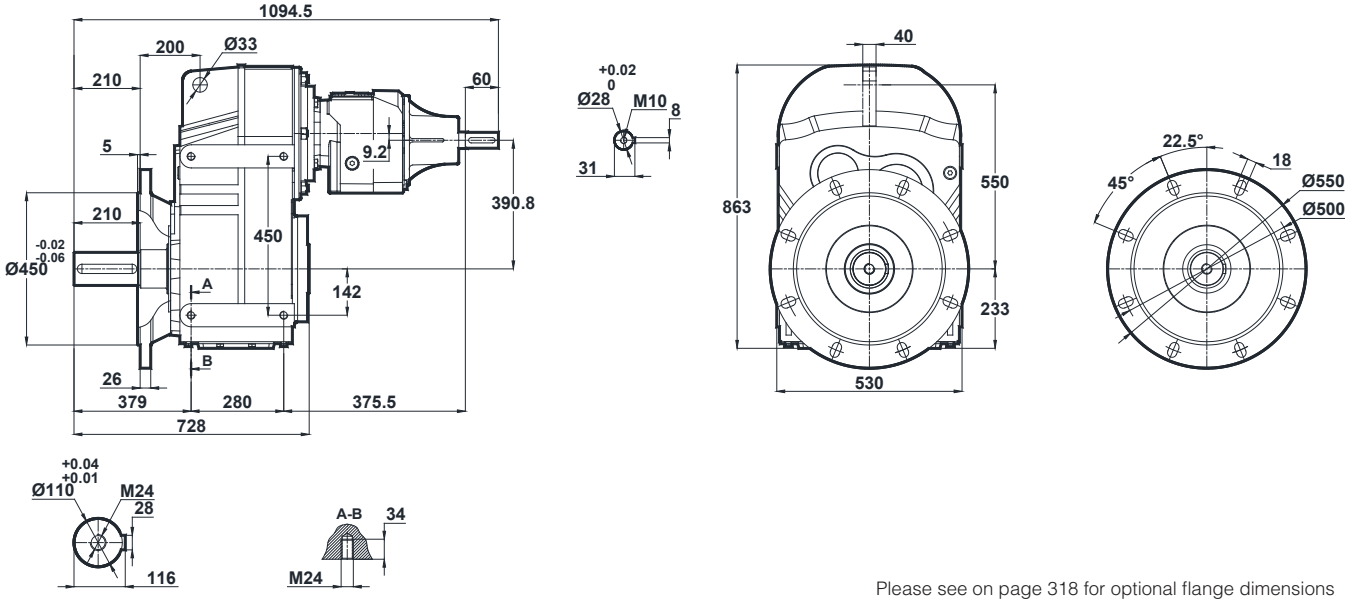
DT875.01
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Tapped center hole according to DIN 332, sheet 2

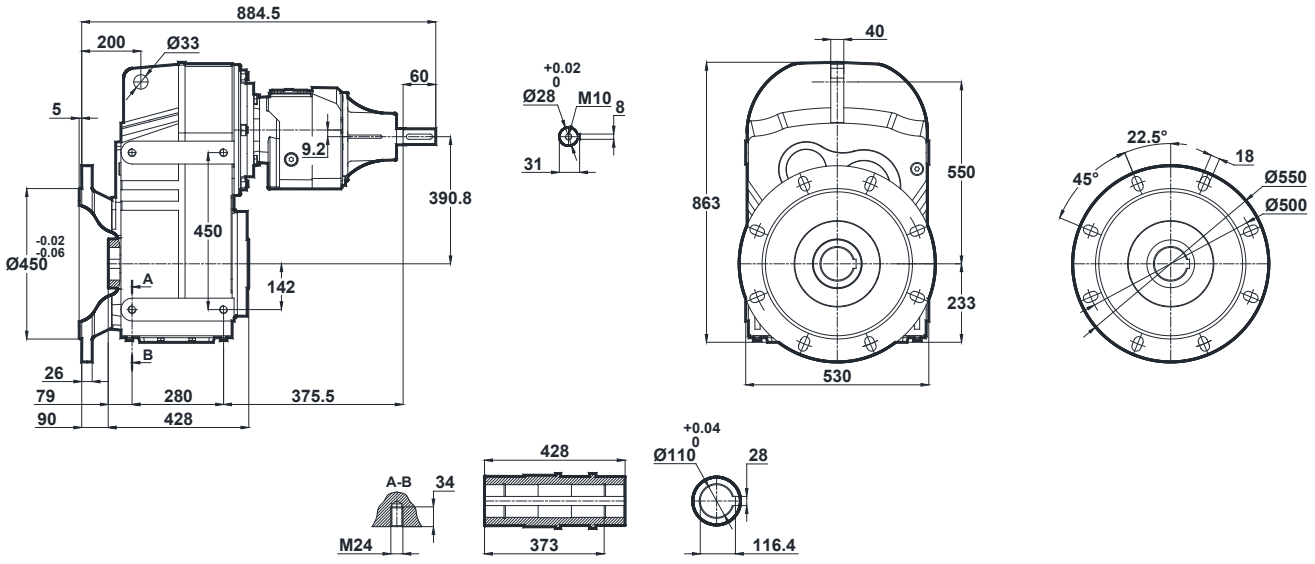


DT875.02
DT876.02



Please see on page 318 for optional flange dimensions

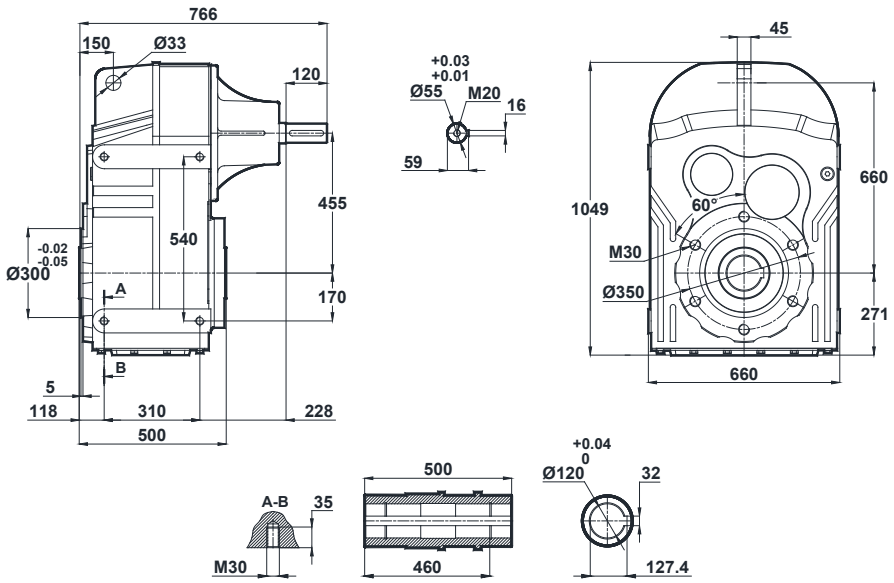
DT875.03
DT876.03



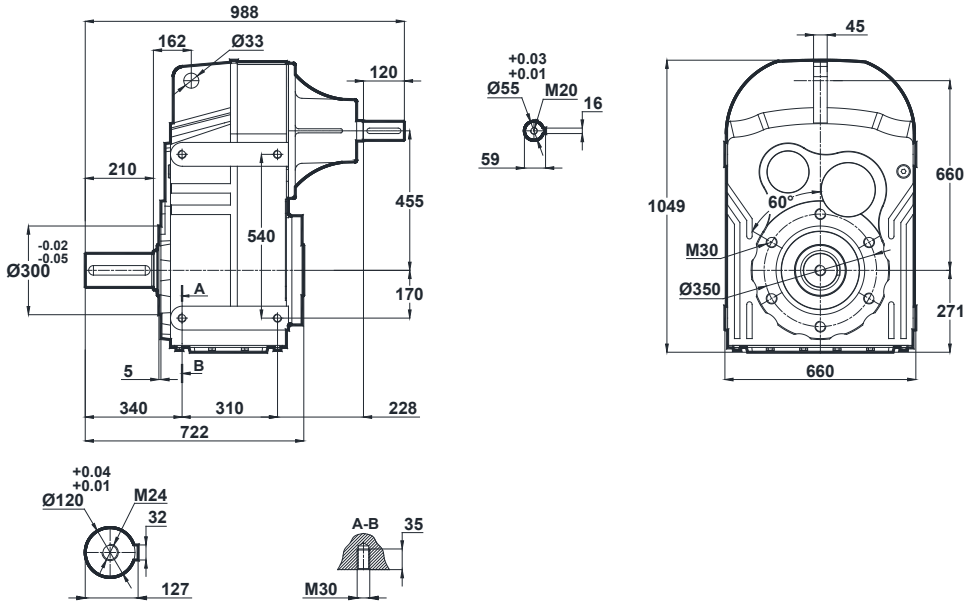
Please see on page 318 for optional flange dimensions

Tapped center hole according to DIN 332, sheet 2

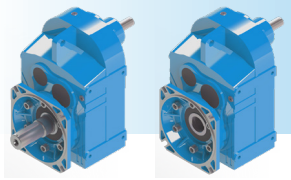
DT972.00
DT973.00



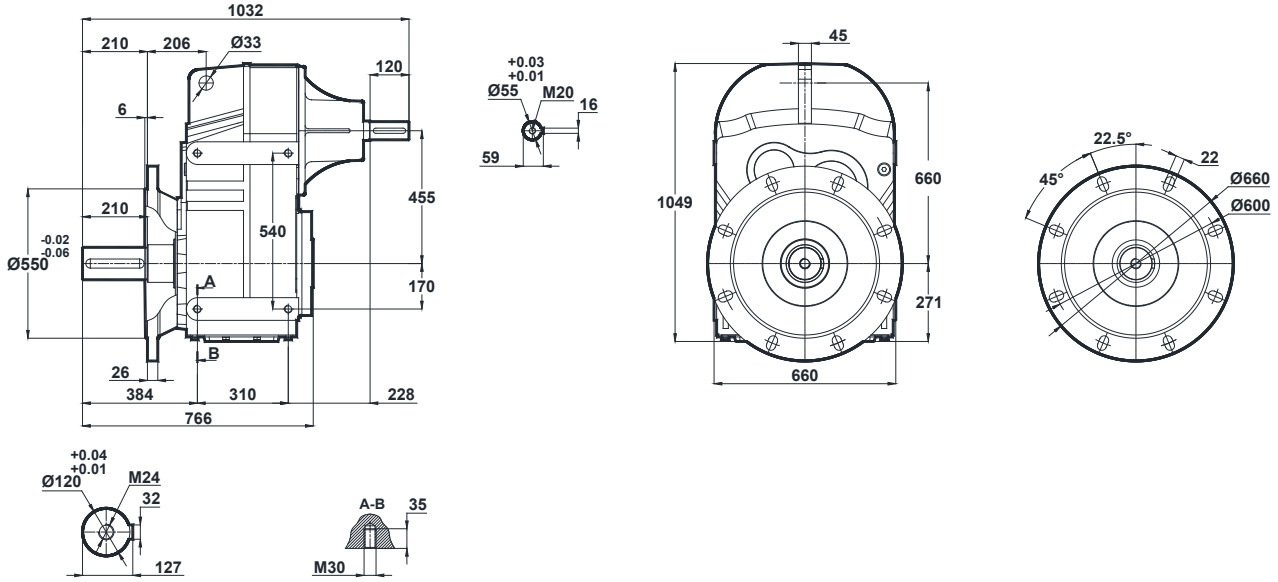
DT972.01
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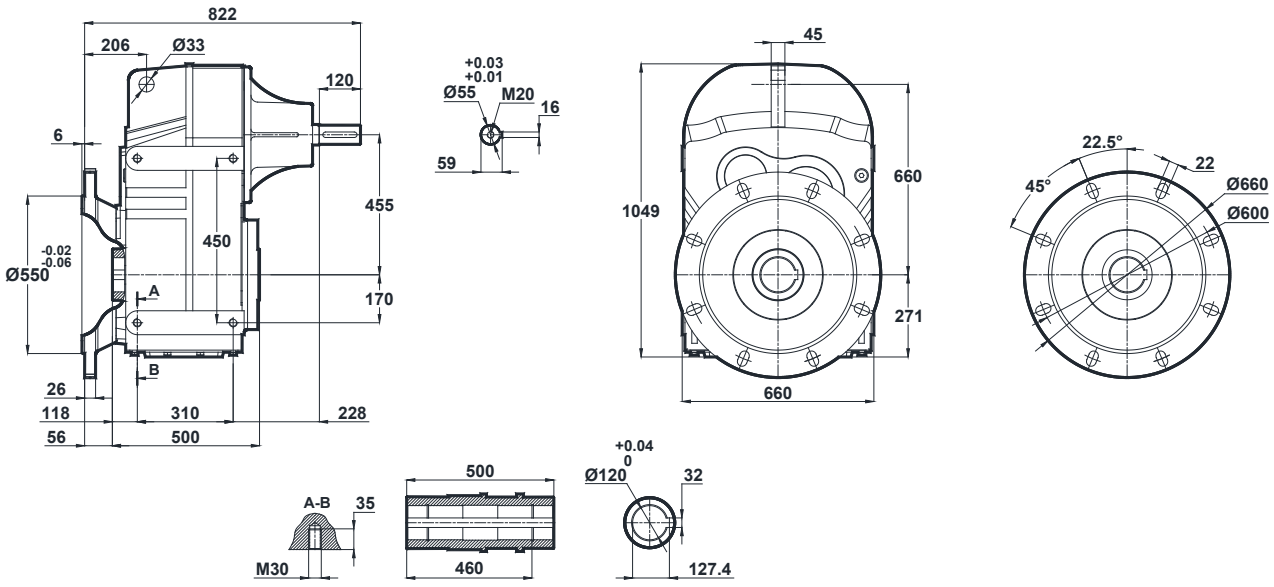
Tapped center hole according to DIN 332, sheet 2



DT972.02
DT973.02

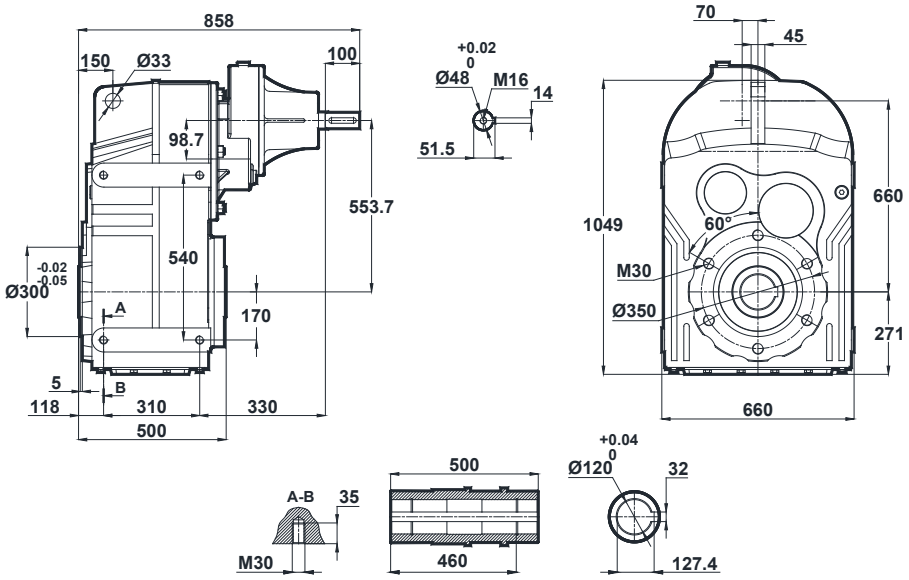


DT972.03
DT973.03

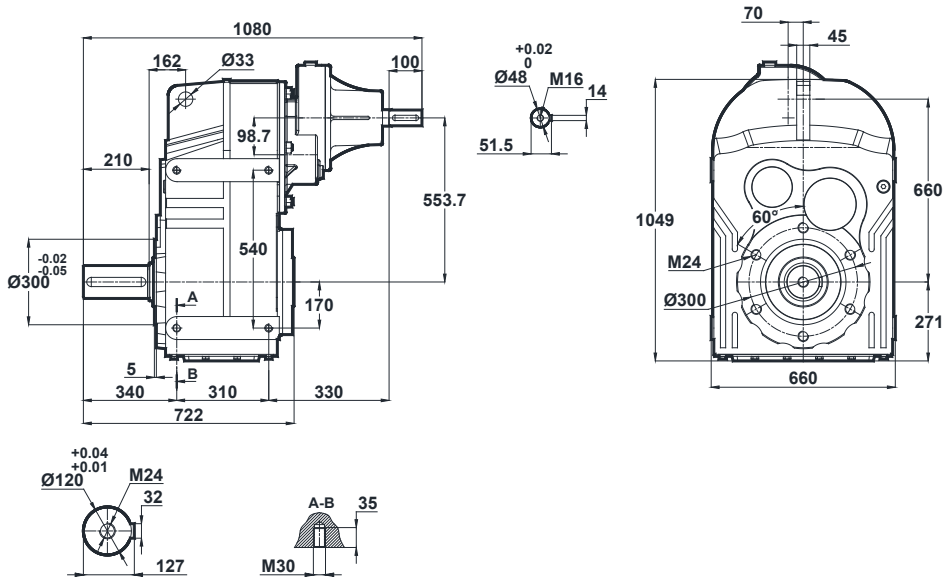


Tapped center hole according to DIN 332, sheet 2

DT974.00

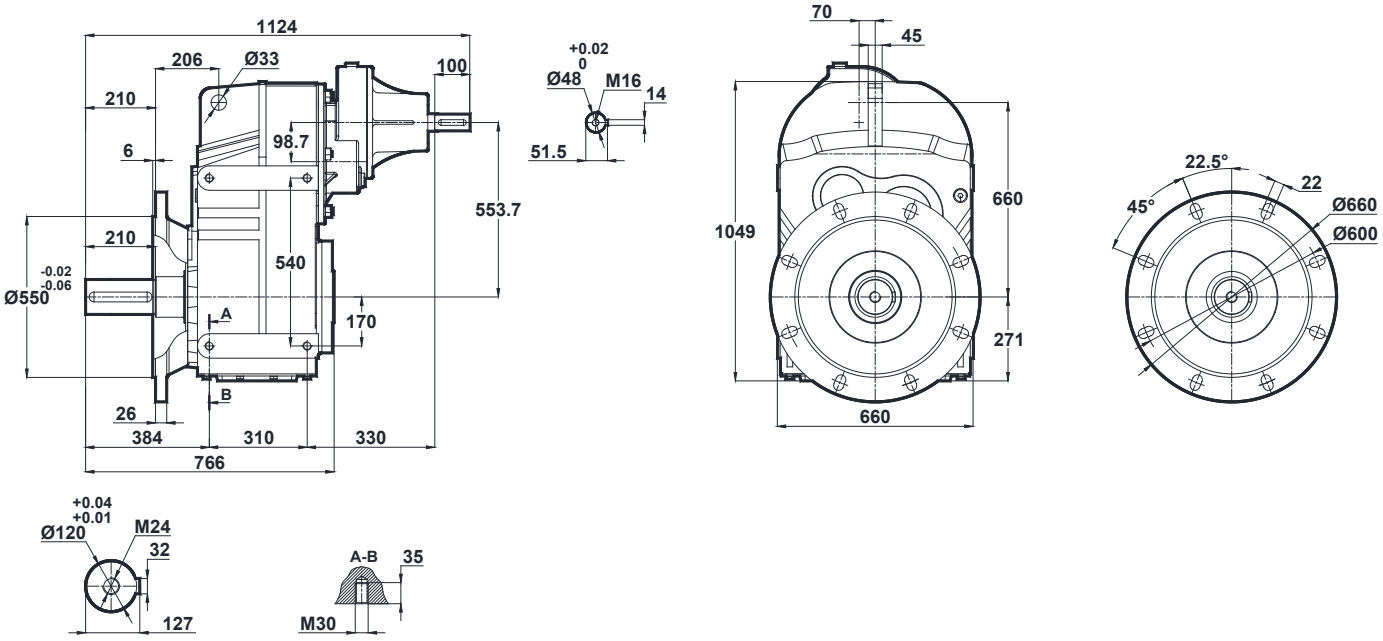


DT974.01

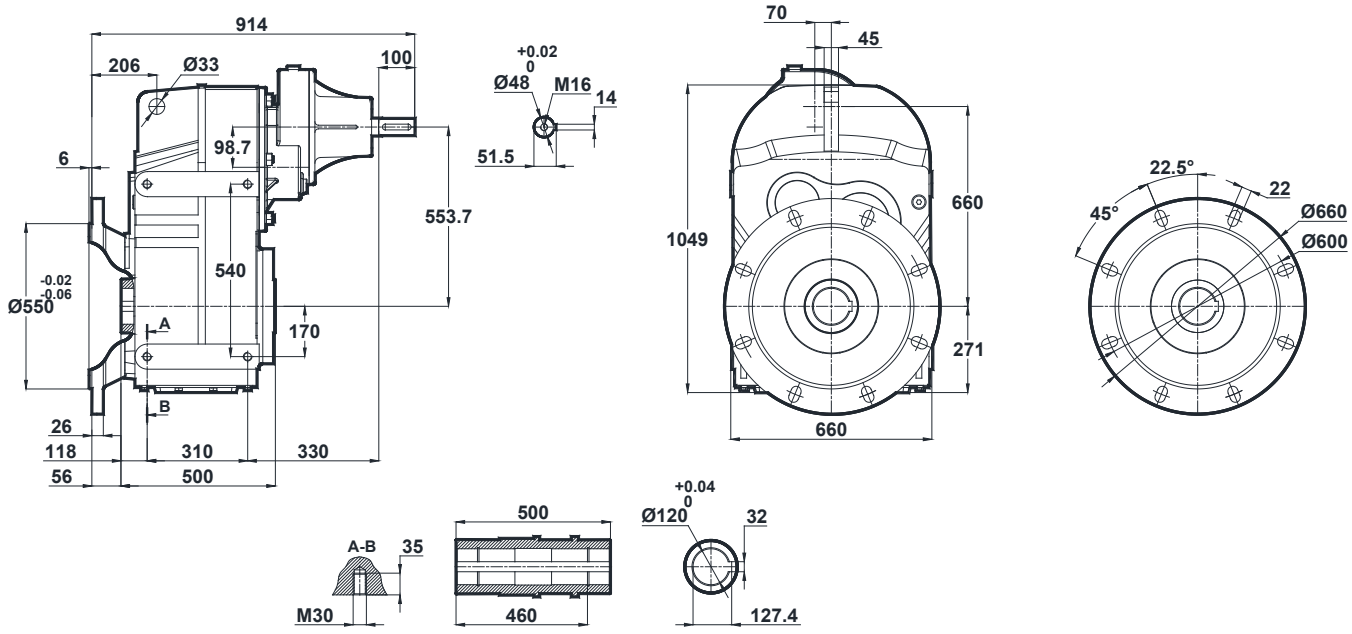


Tapped center hole according to DIN 332, sheet 2

DT974.02

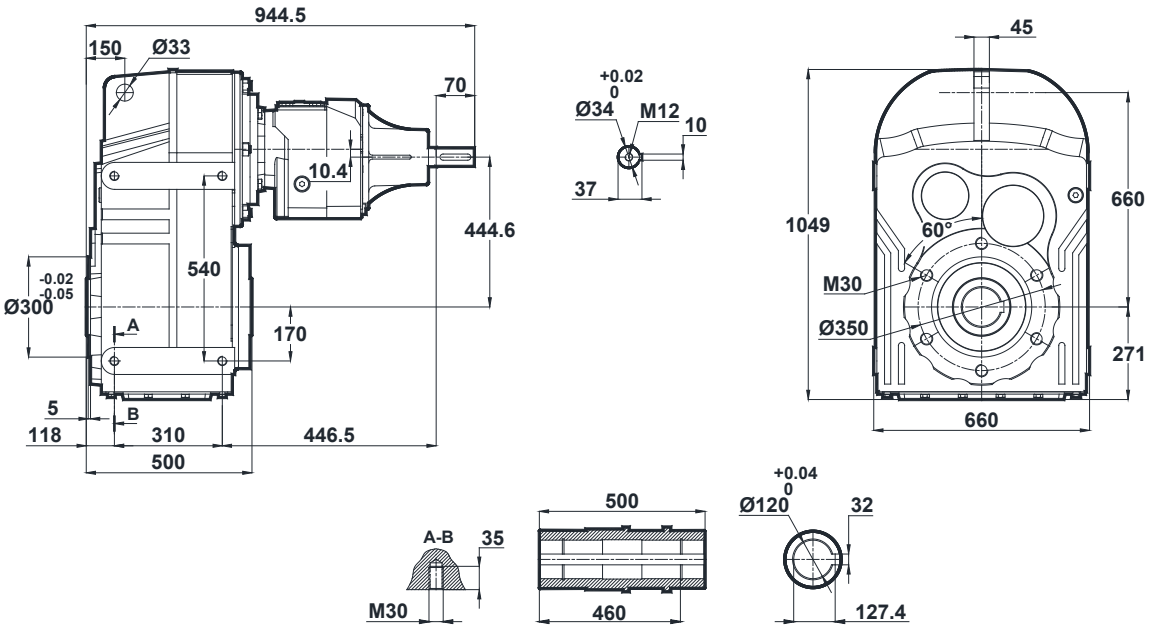


DT974.03

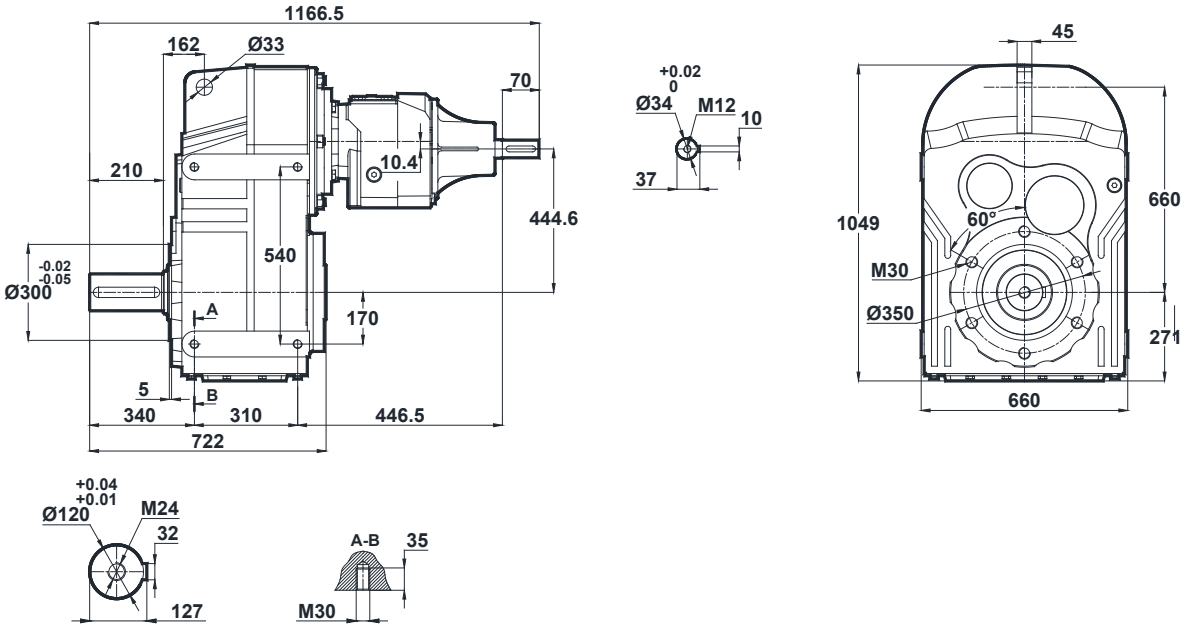


Tapped center hole according to DIN 332, sheet 2

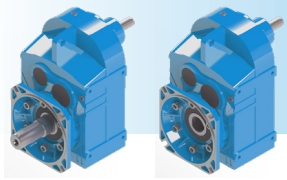
DT975.00
DT976.00



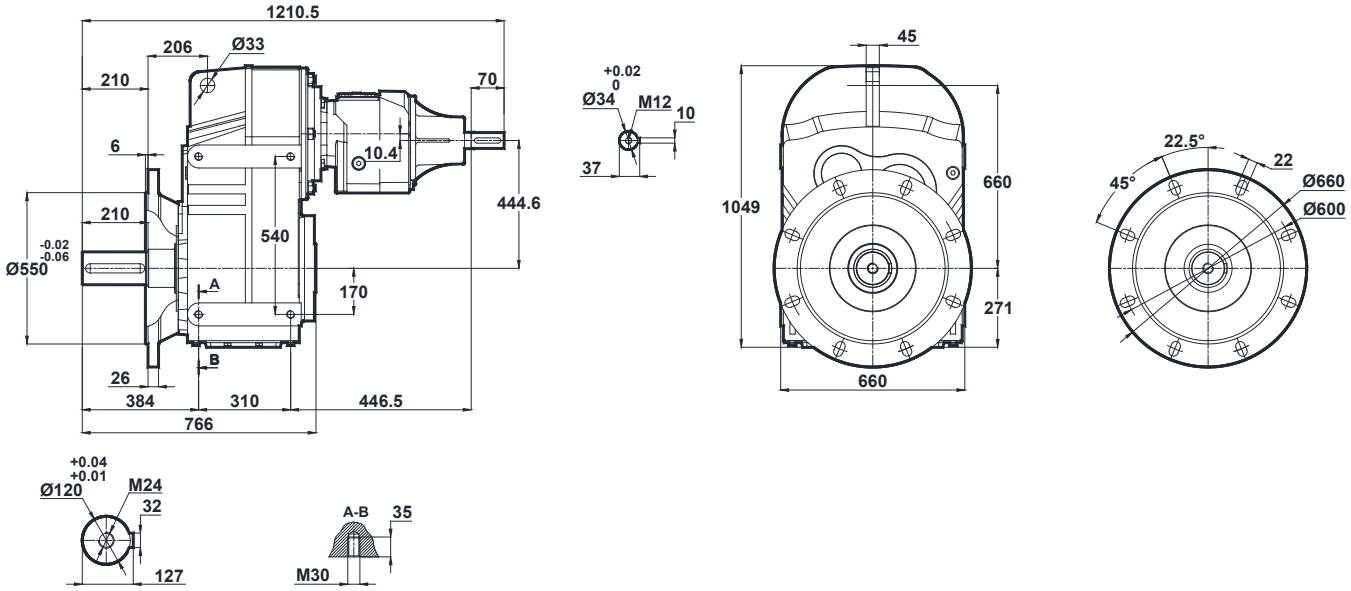
DT975.01
DT976.01



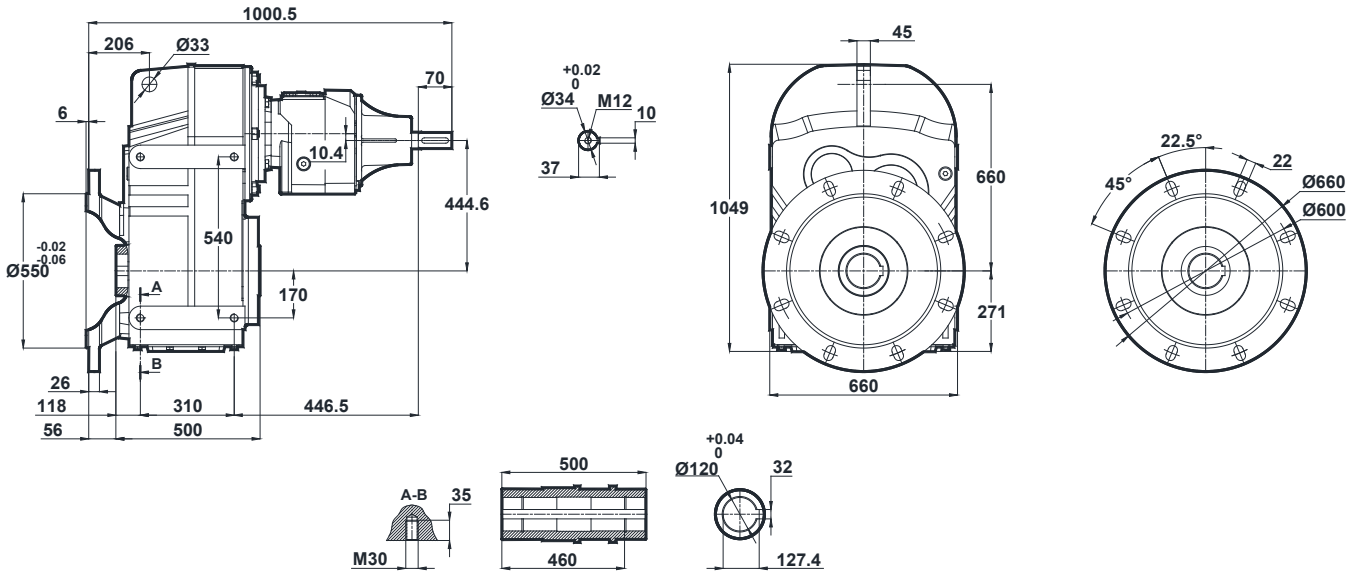
Tapped center hole according to DIN 332, sheet 2



DT975.02
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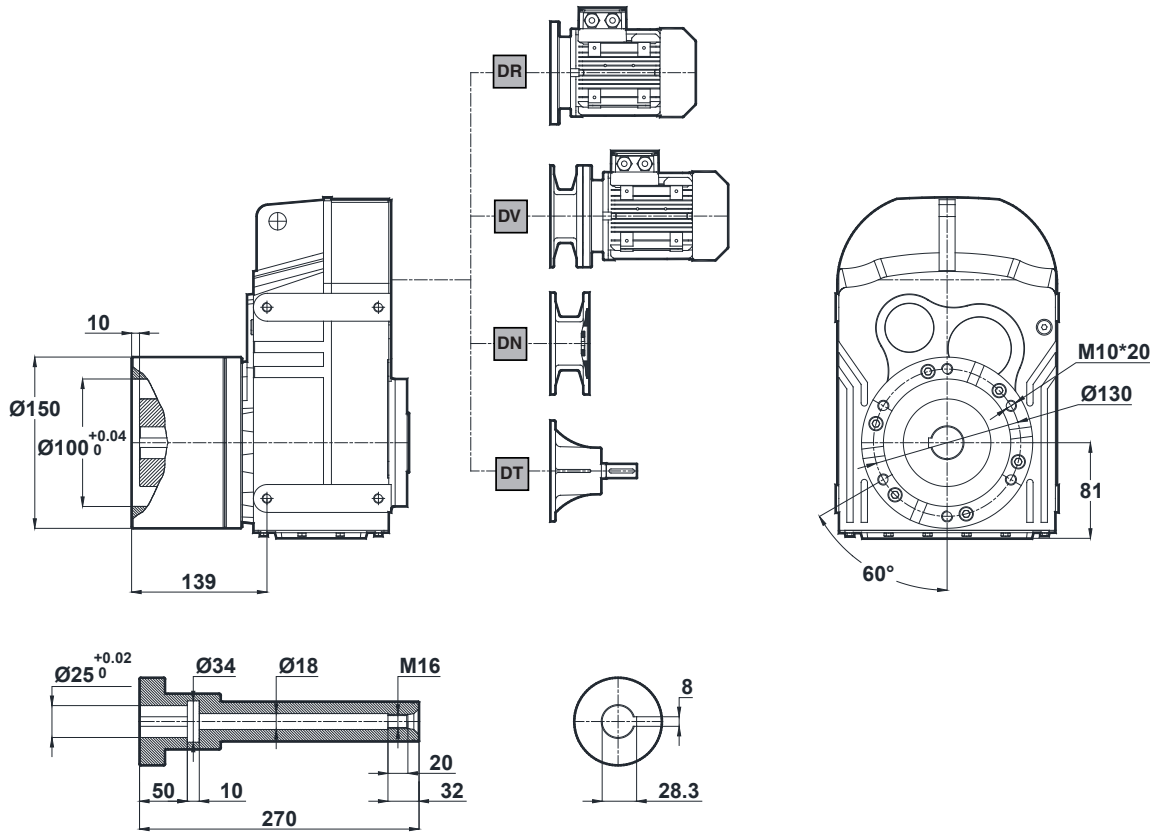


DT975.03
DT976.03

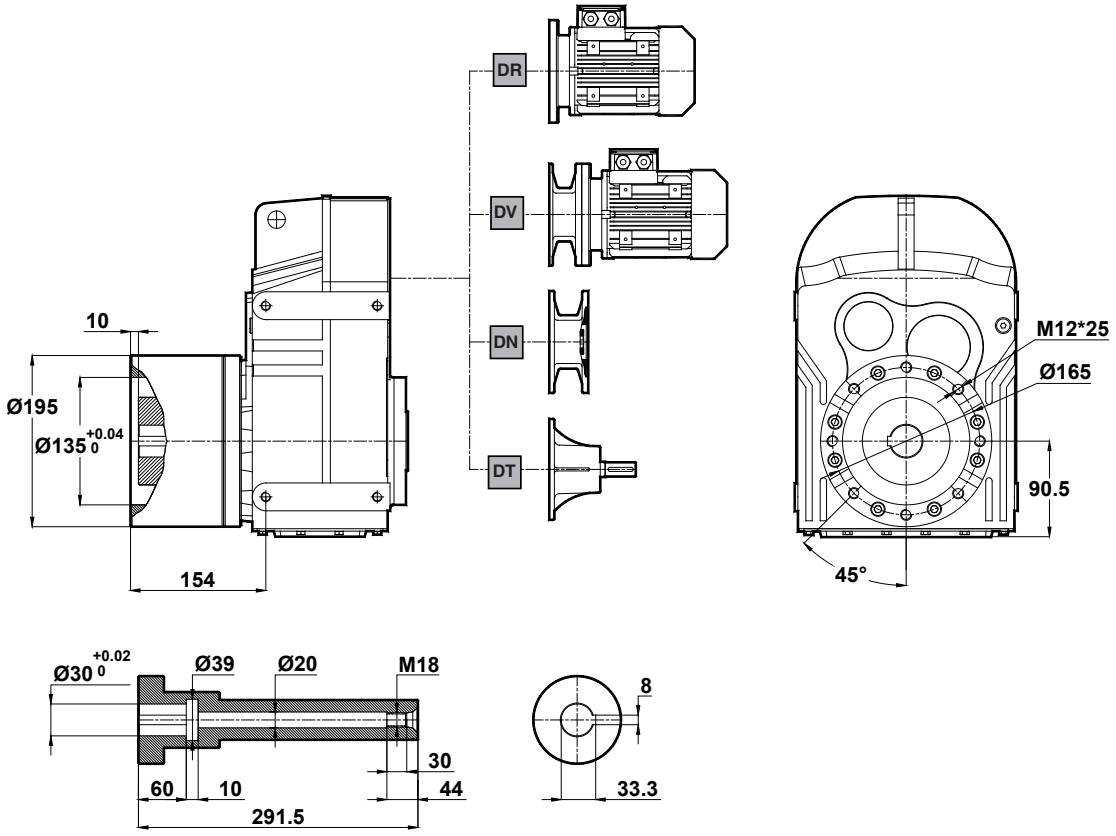


Tapped center hole according to DIN 332, sheet 2

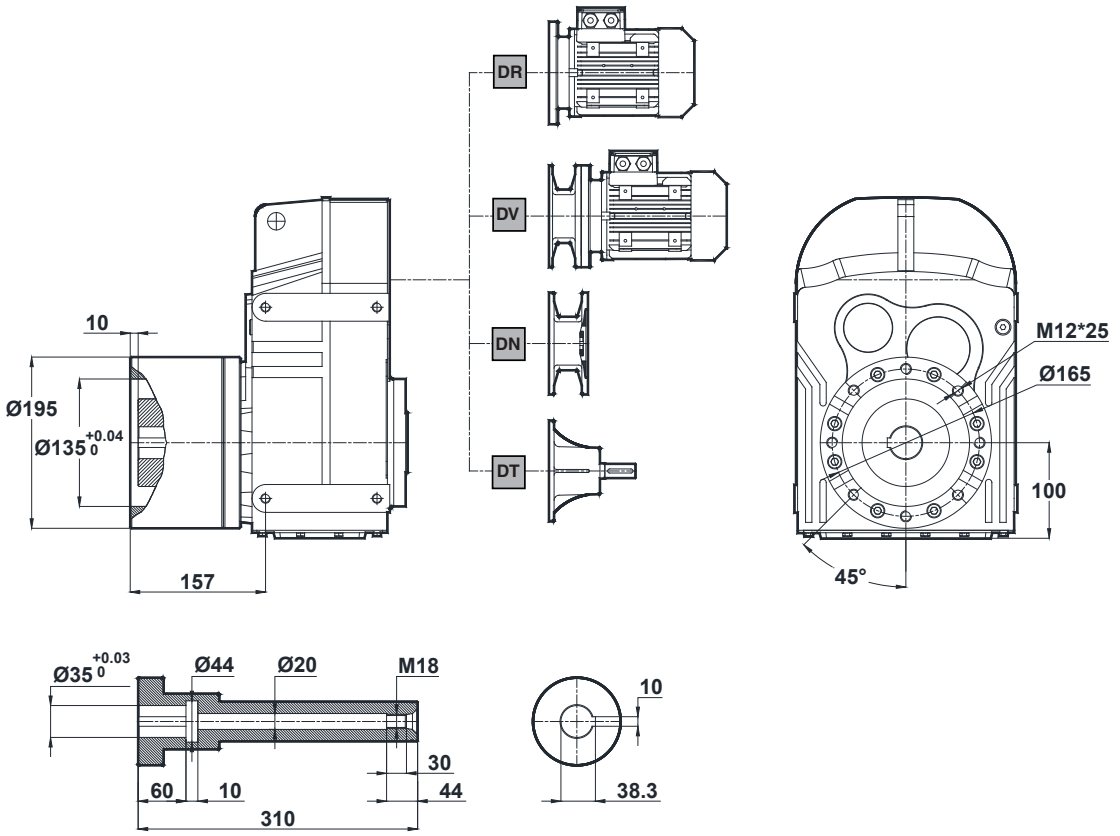
D.27.0E


DR
DV
DN
DT
10
Ø150
Ø100 +0.04 0
139
M10*20
Ø130
81
60°
Ø25 +0.02 0
Ø34
Ø18
M16
20
50
10
32
270
8
28.3

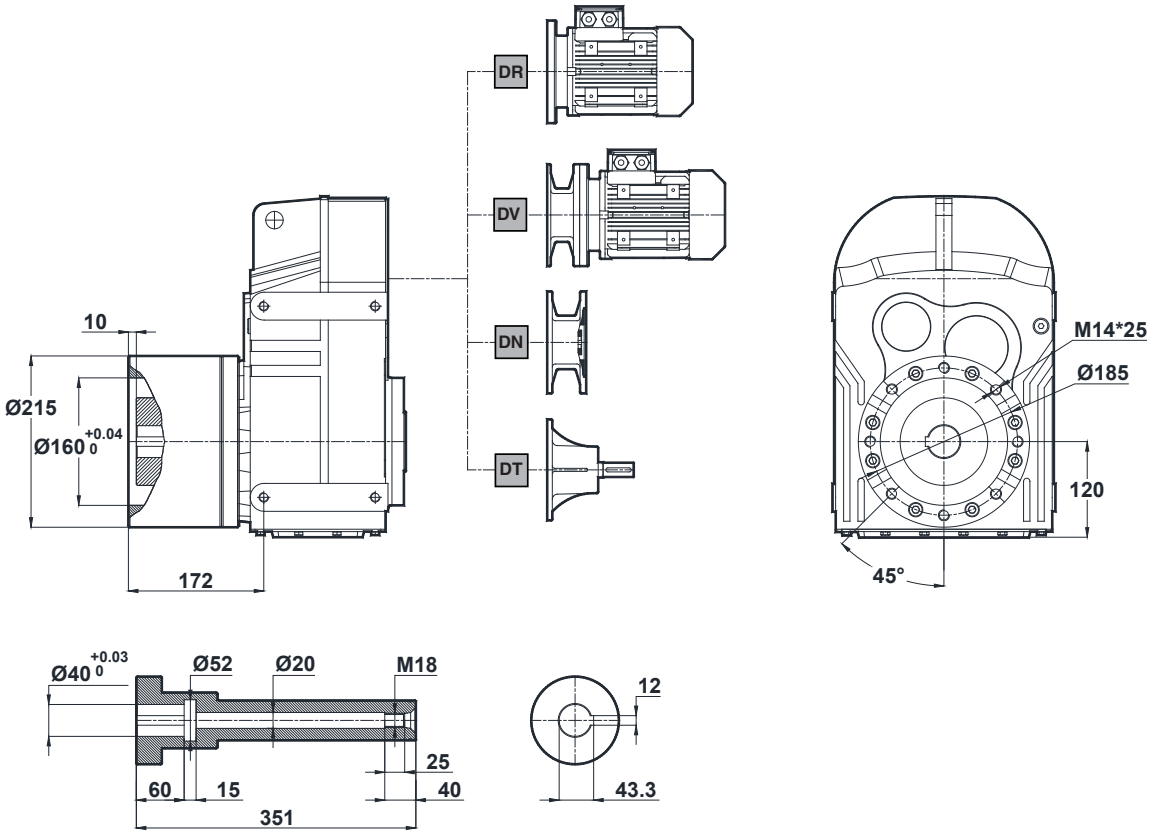
D.28.0E

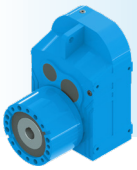

DR
DV
DN
DT
10
Ø195
Ø135 +0.04 0
154
M12*25
Ø165
90.5
45°
Ø30 +0.02 0
Ø39
Ø20
M18
30
60
10
44
291.5
8
33.3

D.37.0E

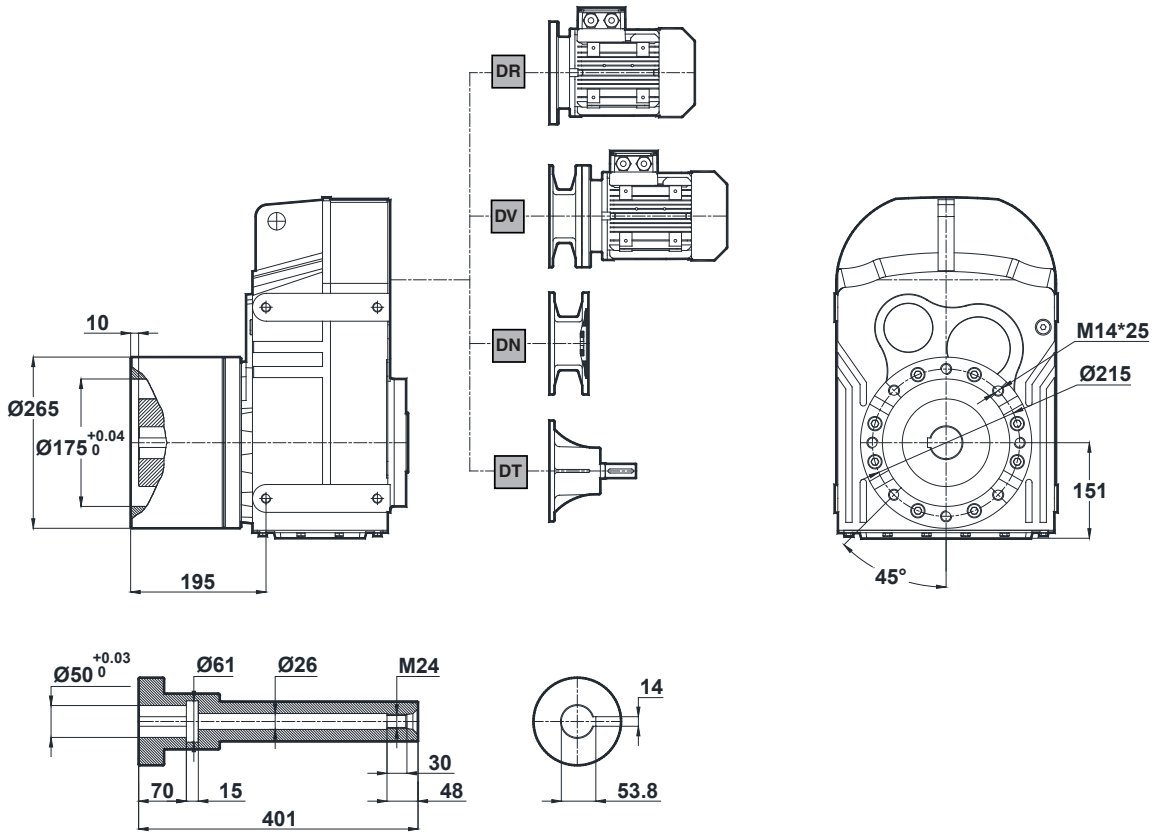

DR
DV
DN
DT
10
Ø195
Ø135 +0.04 0
157
M12*25
Ø165
100
45°
Ø35 +0.03 0
Ø44
Ø20
M18
30
60
10
44
310
10
38.3

D.47.0E

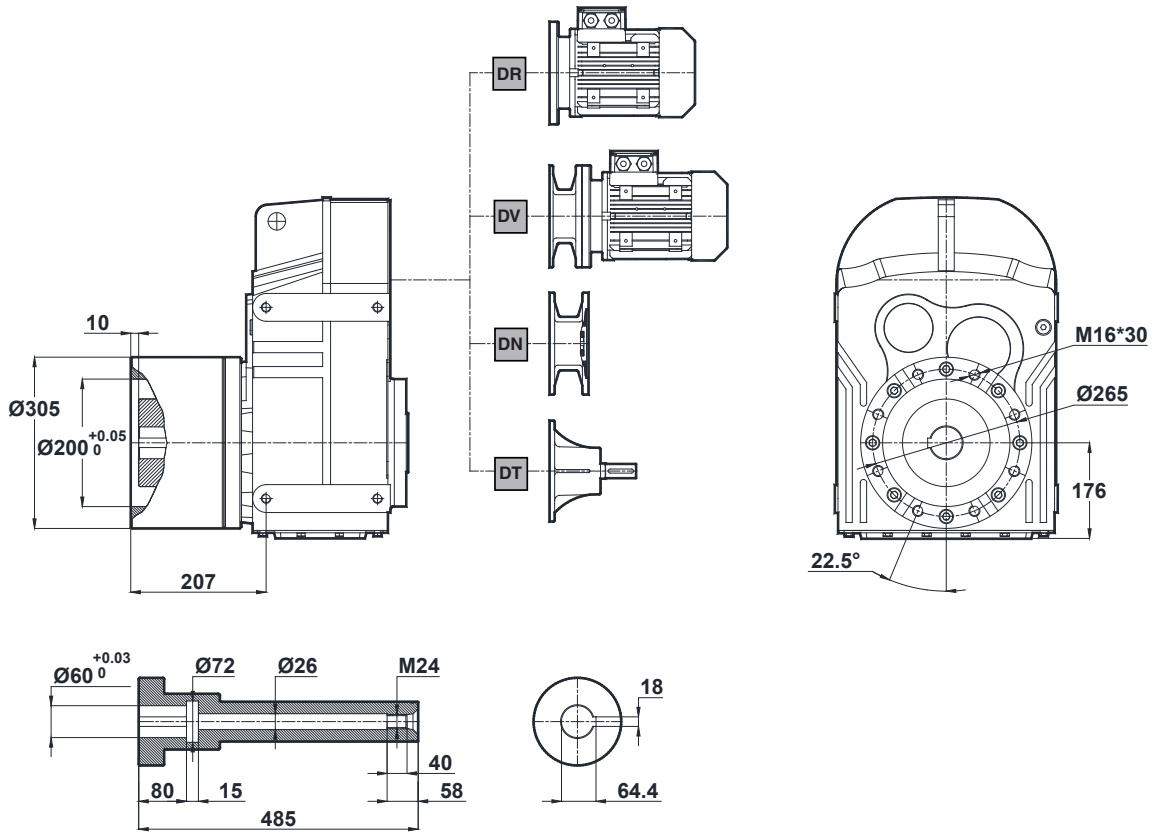

DR
DV
DN
DT
10
Ø215
Ø160 +0.04 0
172
M14*25
Ø185
120
45°
Ø40 +0.03 0
Ø52
Ø20
M18
25
60
15
40
351
12
43.3



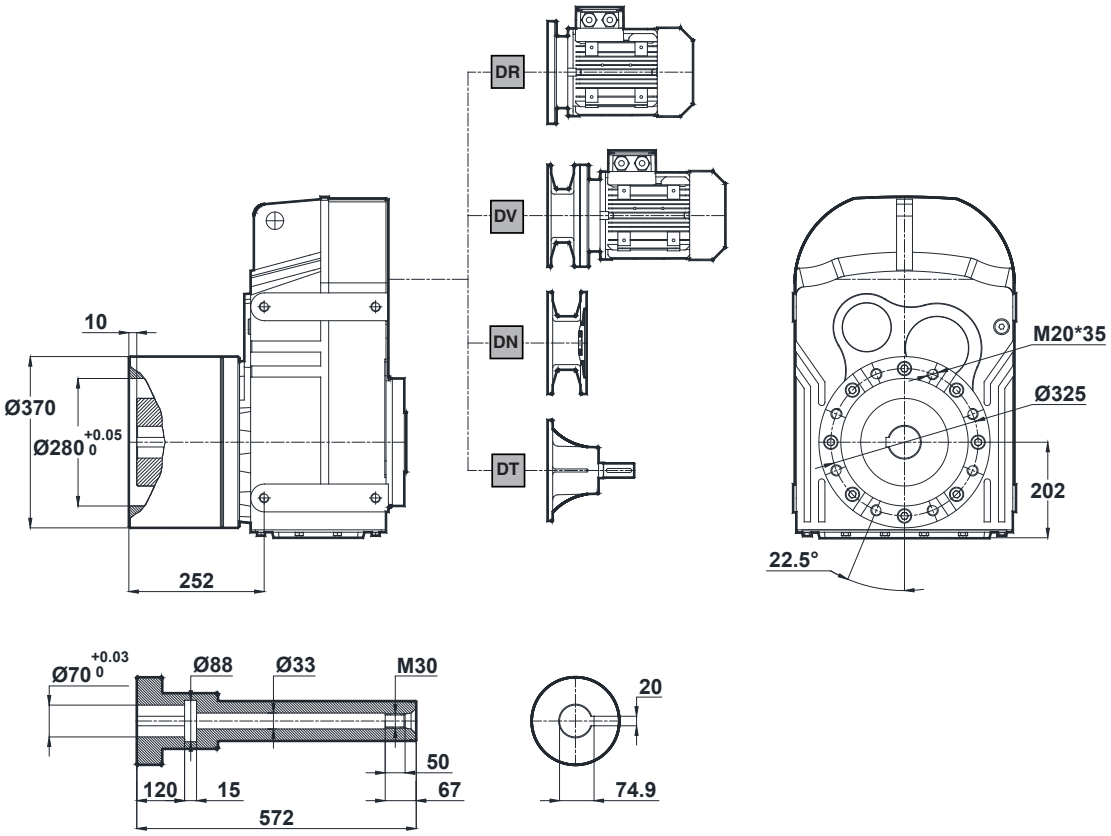
D.57.0E


DR
DV
DN
DT
10
Ø265
Ø175 +0.04 0
195
M14*25
Ø215
151
45°
Ø50 +0.03 0
Ø61
Ø26
M24
30
70
15
48
401
14
53.8

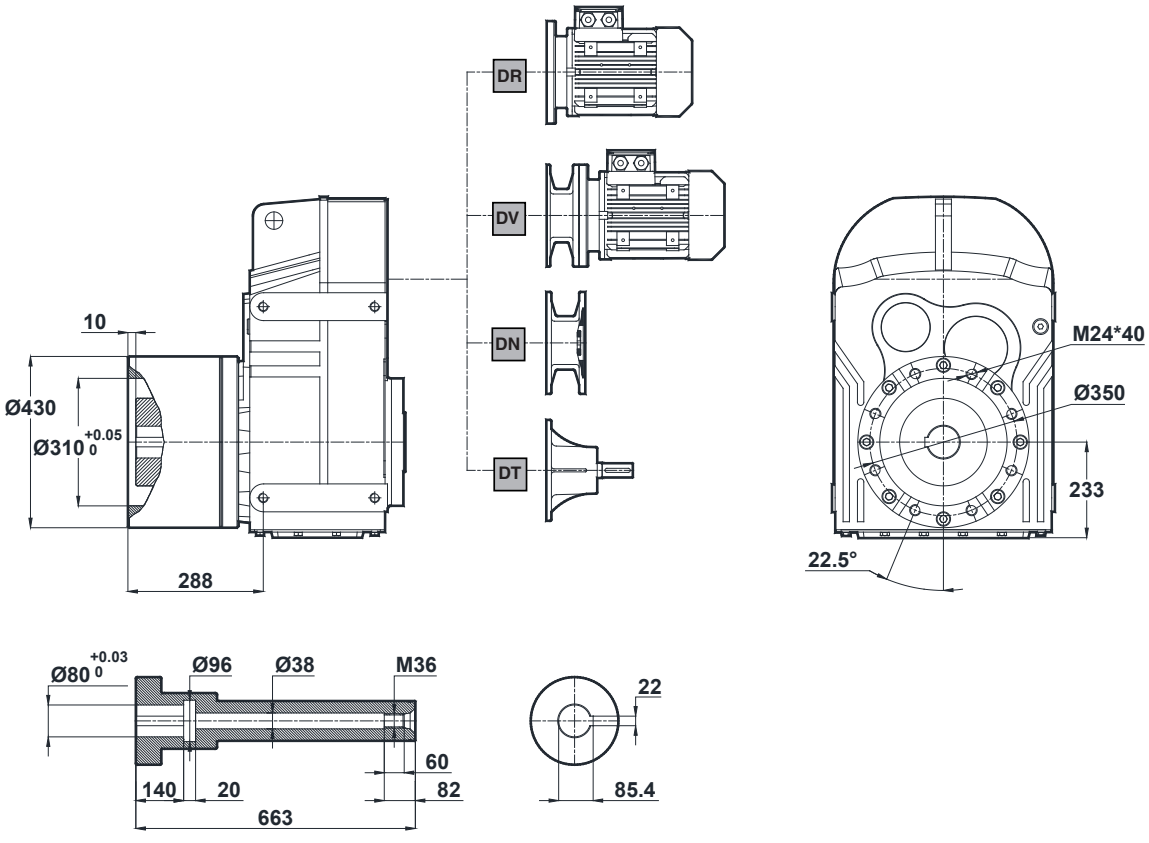
D.67.0E


DR
DV
DN
DT
10
Ø305
Ø200 +0.05 0
207
M16*30
Ø265
176
22.5°
Ø60 +0.03 0
Ø72
Ø26
M24
40
80
15
58
485
18
64.4

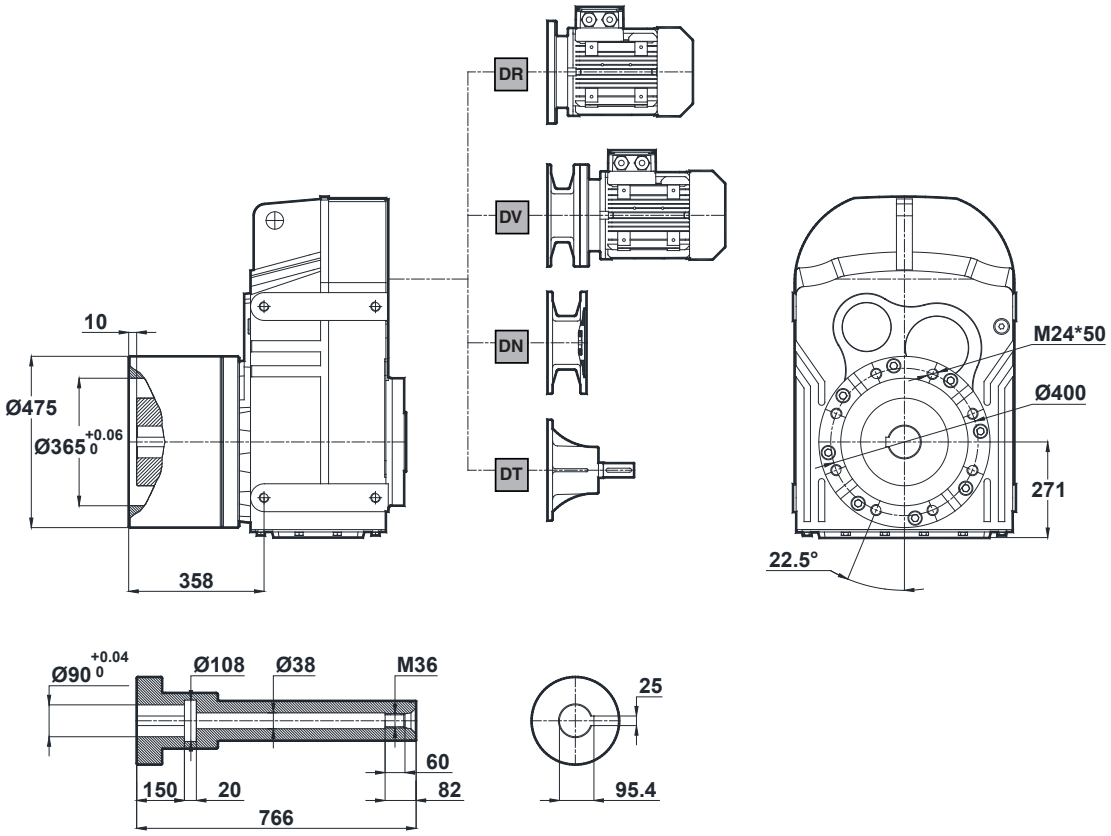
D.77.0E


DR
DV
DN
DT
10
Ø370
Ø280 +0.05 0
252
M20*35
Ø325
202
22.5°
Ø70 +0.03 0
Ø88
Ø33
M30
50
120
15
67
572
20
74.9

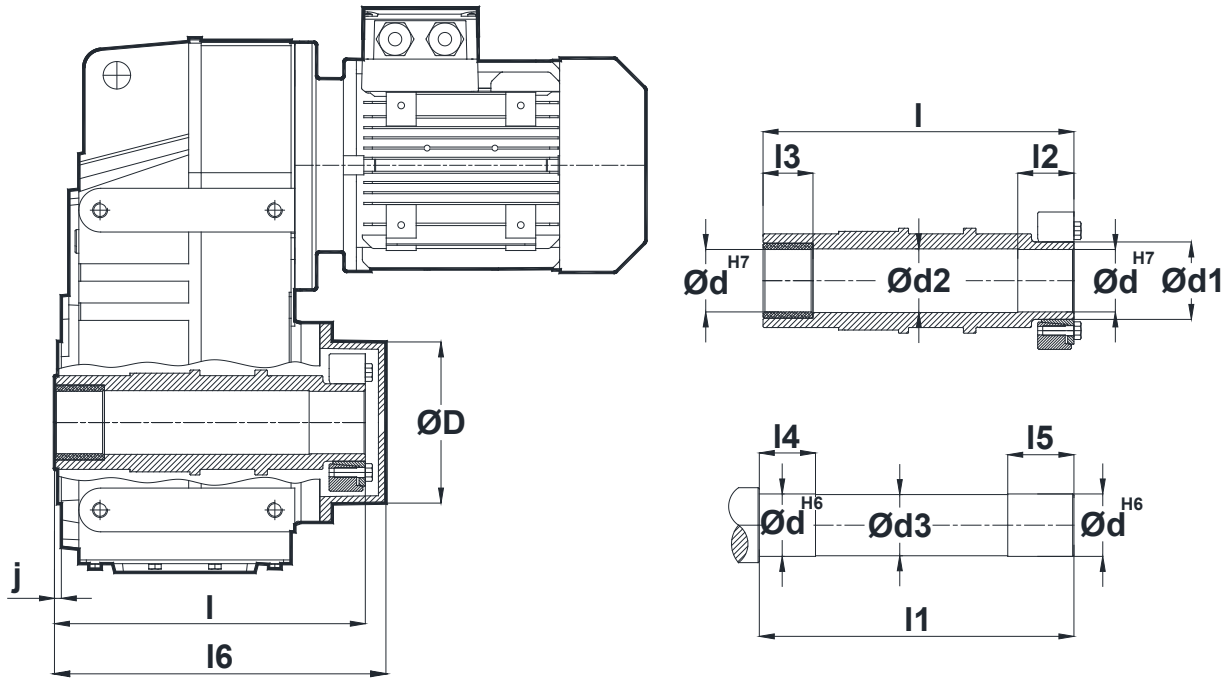
D.87.0E


DR
DV
DN
DT
10
Ø430
Ø310 +0.05 0
288
M24*40
Ø350
233
22.5°
Ø80 +0.03 0
Ø96
Ø38
M36
60
140
20
82
663
22
85.4

D.97.0E


DR
DV
DN
DT
10
Ø475
Ø365 +0.06 0
358
M24*50
Ø400
271
22.5°
Ø90 +0.04 0
Ø108
Ø38
M36
60
82
150
20
766
25
95.4

Hollow Shaft with Shrink Disc Connector

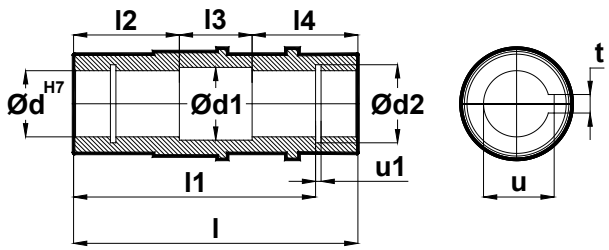


Desired surface roughness value: Rz ≤ 16 µm

Type	ØD	Ød	Ød1	Ød2	Ød3	l	l1	l2	l3	l4	l5	l6	j	M	Z	Ta[Nm]
D.07.. 0S	73	25	30	26	24	131	134	30	20	25	38	142,5	4	M5	6	4
D.17.. 0S	85	30	36	31	29	146	149	30	20	25	38	162	4	M6	5	12
D.27.. 0S	94	35	44	36	34	186	189	35	25	30	43	201	4.5	M6	7	12
D.28.. 0S	104	40	50	41	39	197	200	35	30	35	43	213	5	M6	8	12
D.37.. 0S	106	40	50	41	39	216	219	40	35	40	48	232	6	M6	8	12
D.47.. 0S	129	50	62	51	49	249	252	45	40	45	53	266	5.5	M6	10	12
D.57.. 0S	159	60	75	61	59	282	285	50	45	50	58	305	5.5	M8	7	30
D.67.. 0S	164	70	80	71	69	345	348	55	50	55	63	366	6	M8	7	30
D.77.. 0S	204	90	110	91	89	418	421	70	60	70	83	440	7.5	M10	9	59
D.87.. 0S	252	110	140	111	109	492	495	80	70	80	93	519	9	M12	10	100
D.97.. 0S	288	120	155	121	119	570	573	90	80	90	103	593	10	M12	12	100

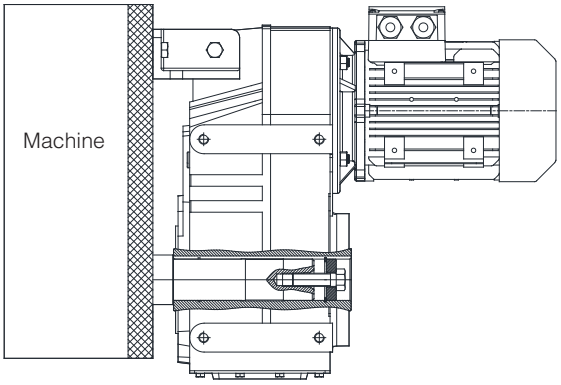
M: Bolt dimension
Z: Bolt Quantity
Ta: Tightening Torque

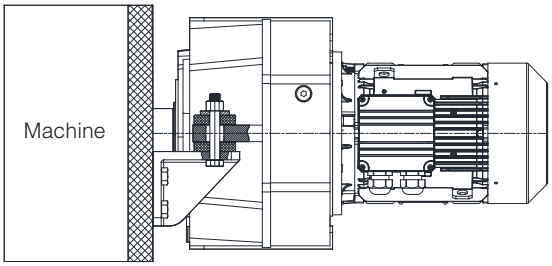
Hollow Shaft Dimensions



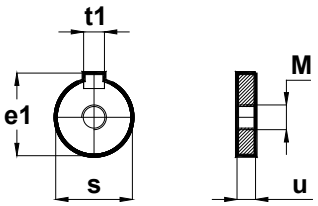
Type	d	d1	d2	l	l1	l2	l3	l4	u1	t	u
D.07..	25	26	26.2	108	94	40	28	40	1.3	8	28.3
D.17..	30	31	31.4	120	105	45	30	45	1.3	8	33.3
D.27..	35	36	37	157	132	60	37	60	1.6	10	38.3
D.28..	40	41	42.5	166	142	64	38	64	1.85	12	43.3
D.37..	40	41	42.5	185	156	70	45	70	1.85	12	43.3
D.47..	50	51	53	215	183	82	51	82	2.15	14	53.8
D.57..	60	61	63	246	210	96	54	96	2.15	18	64.4
D.67..	70	71	73	308	270	110	88	110	2.65	20	74.9
D.77..	90	91	93.5	363	313	135	93	135	3.15	25	95.4
D.87..	110	111	114	428	373	160	108	160	4.15	28	116.4
D.97..	120	121	124	500	460	180	140	180	4.15	32	127.4

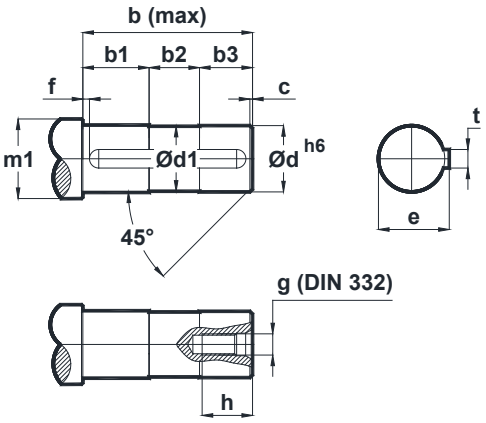
Torque Arm Mounting details





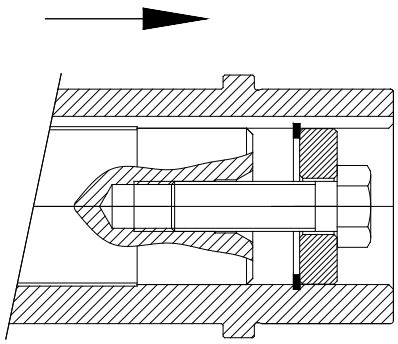
Advised Shaft Dimensions and Accessories Assembling



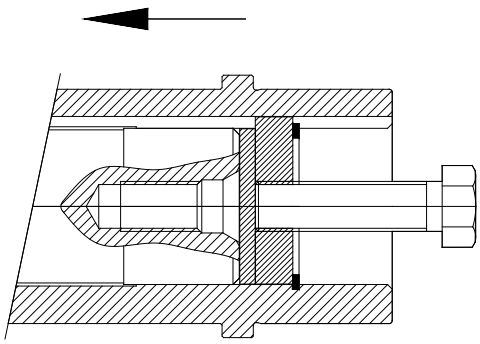


Type	s	u	e1	t1	M	d	d1	m1	f	b	b1	b2	b3	c	g	h	e	t
D.07..	24.7	8	28	7.5	M12	25	24	30		82	45	18	19	1	M10	24	28	8
D.17..	29.7	10	33	7.5	M12	30	29	36		89	50	20	19	1	M10	24	33	8
D.27..	34.7	12	38	9.5	M16	35	34	43		114	65	27	22	1	M12	30	38	10
D.28..	39.7	12	43	11.5	M20	40	39	50		124	69	28	27	2	M16	38	43	12
D.37..	39.7	12	43	11.5	M20	40	39	50		138	75	35	28	2	M16	38	43	12
D.47..	49.7	12	53.5	13.5	M20	50	49	60	5	165	87	41	37	3	M16	38	53.5	14
D.57..	59.7	16	64	17.5	M24	60	59	75		188	101	44	43	3	M20	44	64	18
D.67..	69.7	16	74.5	19.5	M24	70	69	85		248	115	78	55	4	M20	44	74.5	20
D.77..	89.7	20	95	24.5	M30	90	89	110		287	140	83	64	4	M24	52	95	25
D.87..	109.7	20	116	27.5	M30	110	109	130		347	165	98	84	4	M24	52	116	28
D.97..	119.7	20	127	31	M30	120	119	140		434	185	130	119	4	M24	52	127	32

Shaft Mounting

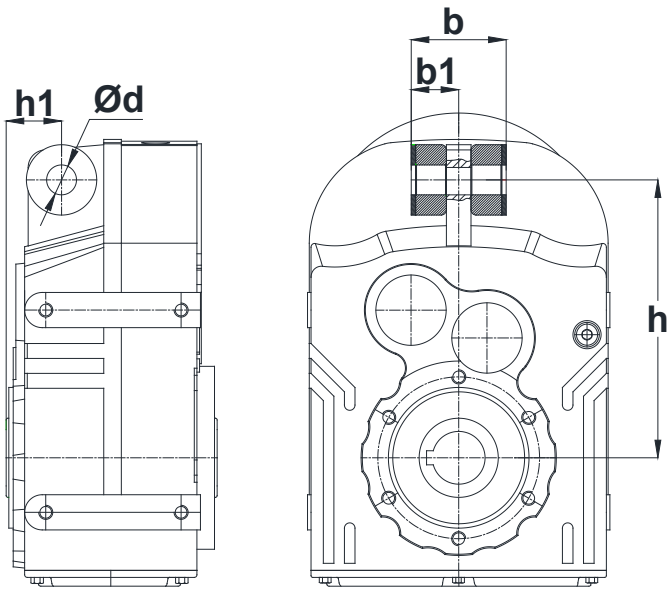


Shaft Pulling Out



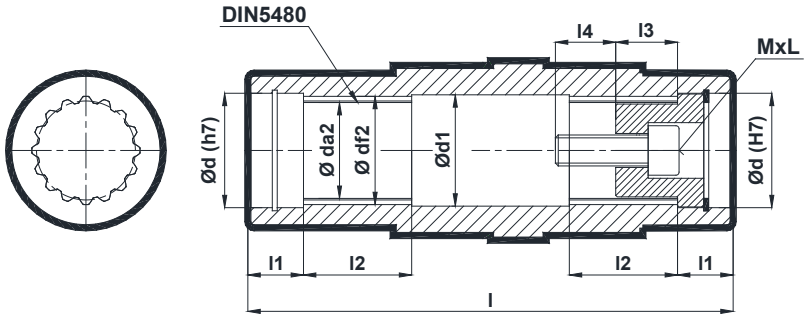
6 Contour Bolt
(DIN ISO 4014 . DIN ISO 4017)
(DIN ISO 8765)

Torque Arm Mounting Dimensions



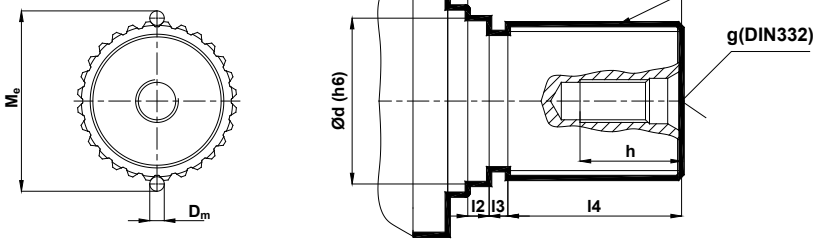
Type	d	b	b1	h	h1
D.07..	14	42	21	147	26.5
D.17.	17	54	27	158	31.5
D.27.	17	54	27	170	32
D.28.	17	54	27	198	40.5
D.37.	17	56	28	218	41
D.47.	22	80	40	278	50
D.57.	22	86	43	346	62
D.67.	26	110	55	395	70
D.77.	26	116	58	485	88
D.87.	32	160	80	550	110
D.97.	32	165	82.5	660	150

Dimensions of Splined Hollow Shaft to DIN 5480



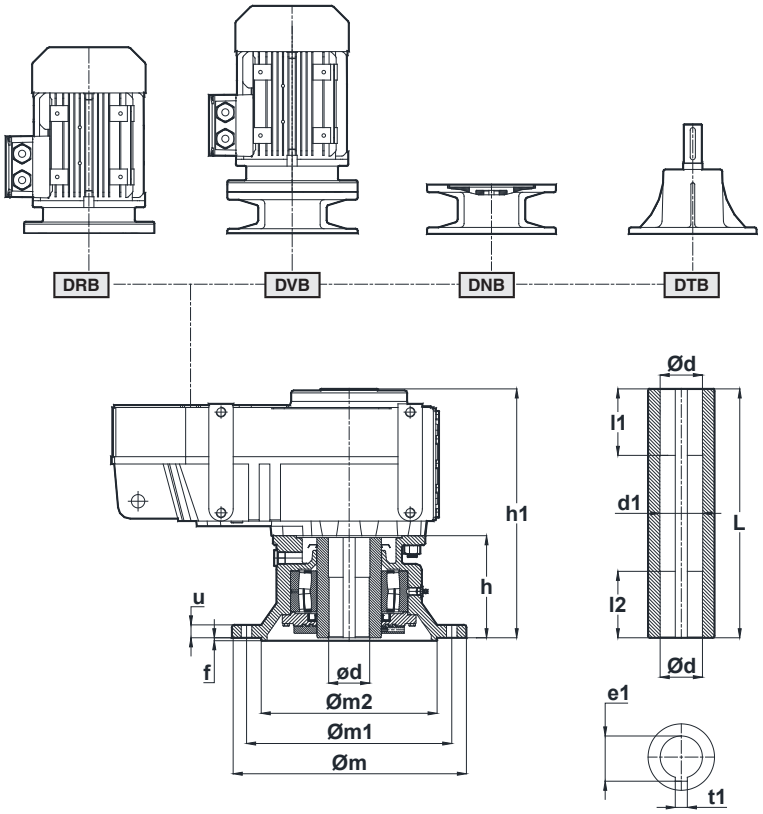
Type	DIN5480	ød (H7)	ød1	ød2	øda2	ødf2	l	l1	l2	l3	l4	MxL
D07	N25x1.25x30x18x9H	27	26	48	22.5	25.25	104	17	22	20	20	M10x60
D17	N30x1,25x30x22x9H	32	31	53	27,5	30,25	120	18	25	20	20	M10x60
D27 **D28**	N35x2x30x16x9H	37	36	58 63,5	31	35,4	157 166	18	35	20	20	M10x90 M10x100
D37	N45x2x30x21x9H	47	46	74	41	45,4	185	25	45	24	32	M16x110
D47	N50x2x30x24x9H	55	51	84	46	50,4	215	25	55	24	32	M16x130
D57	N65x2x30x31x9H	72	66	104	61	65,4	246	25	65	30	40	M20x150
D67	N70x2x30x34x9H	72	71	119	66	70,4	308	25	75	30	40	M20x210
D77	N85x3x30x27x9H	90	86	139,5	79	85,6	363	26	90	30	40	M20x240
D87	N100x4x30x24x9H	110	101	169	92	100,8	428	30	105	41	50	M24x290
D97	N120x4x30x28x9H	130	121	179	112	120,8	500	35	120	41	50	M24x340

NOTE: The customer shaft length must be made only for one sided (l1+l2) splined hollow shaft dimensions! The total length (l) of the splined hollow shaft can not be used in this case!



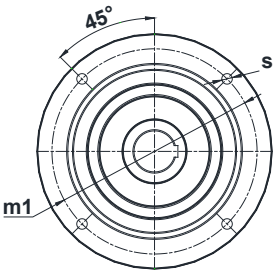
Type	DIN5480	ød	l1	l2	l3	l4	Me	Dm	g (DIN332)
D07	W25x1.25x30x18x8f	27	44	10	7	27	$28.01^{0\,/\,-0,03}$	2.75	M10x24
D17	W30x1,25x30x22x8f	32	48	11	7	30	$33,05^{0\,/\,-0,04}$	2,75	M10x24
D27 **D28**	W35x2x30x16x8f	37	58	11	7	40	$38,94^{0\,/\,-0,05}$	4,00	M10x24
D37	W45x2x30x21x8f	47	75	18	7	50	$48,88^{0\,/\,-0,05}$	4,00	M16x38
D47	W50x2x30x24x8f	55	85	18	7	60	$54,16^{0\,/\,-0,05}$	4,00	M16x38
D57	W65x2x30x31x8f	72	95	17	8	70	$68,99^{0\,/\,-0,06}$	4,00	M20x44
D67	W70x2x30x34x8f	72	105	17	8	80	$74,18^{0\,/\,-0,06}$	4,00	M20x44
D77	W85x3x30x27x8f	90	121	16	10	95	$91,02^{0\,/\,-0,05}$	6,00	M20x44
D87	W100x4x30x24x8f	110	140	20	10	110	$108,37^{0\,/\,-0,06}$	8,00	M24x52
D97	W120x4x30x28x8f	130	160	23	12	125	$127,89^{0\,/\,-0,06}$	8,00	M24x52

0A Hollow Shaft Option

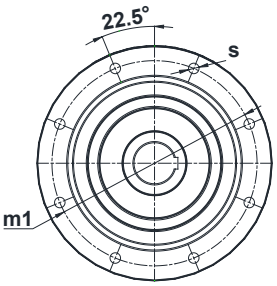


Output Flange

D.28 - D.67

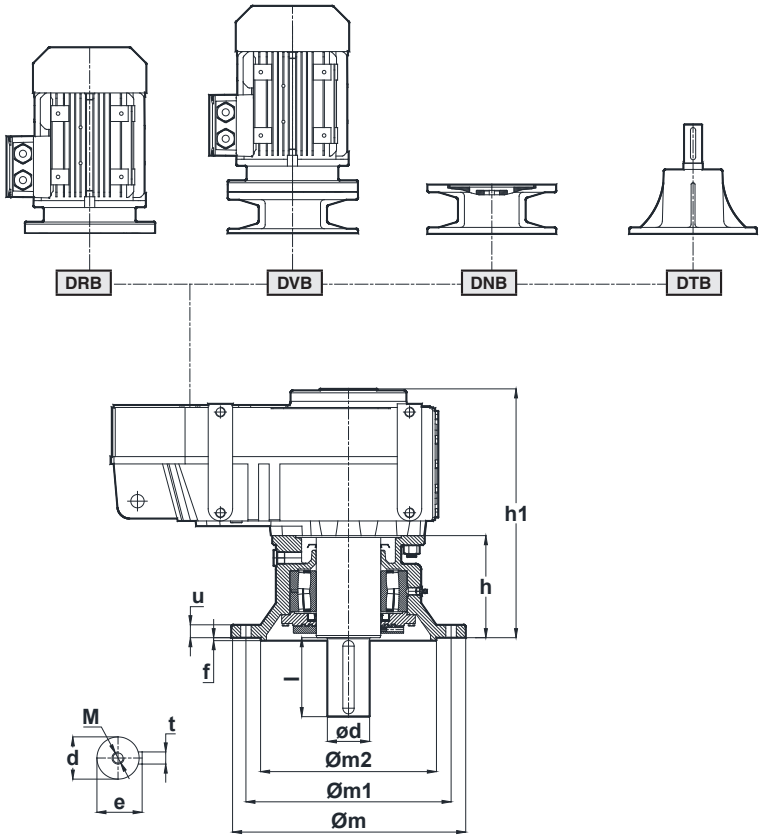


D.77 - D.97



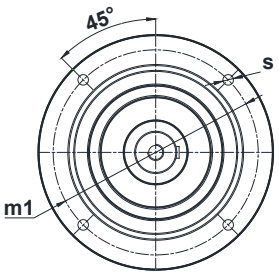
Type	m	m1	m2	h	h1	f	u	s	L	l1	l2	d	d1	e1	t1
D.B 28	250	215	180	96	257	4	16	13,5x4	257	60	60	40	41	43,3	12
D.B 37	250	215	180	96	275,5	4	16	13,5x4	275,5	70	70	40	41	43,3	12
D.B 47	300	265	230	100	309,5	4	20	14x4	309,5	82	82	50	51	53,8	14
D.B 57	350	300	250	124	364,5	5	20	18x4	364,5	96	96	60	61	64,4	18
D.B 67	400	350	300	174	476	5	22	18x4	476	110	110	70	71	79,9	20
D.B 77	450	400	350	194	549,5	5	24	18x8	549,5	135	135	90	91	95,4	25
D.B 87	550	500	450	210	629	5	28	18x8	629	160	160	110	111	116,4	28
D.B 97	660	600	550	227	717	6	28	22x8	722	180	180	120	121	127,4	32

1A Solid Shaft Option

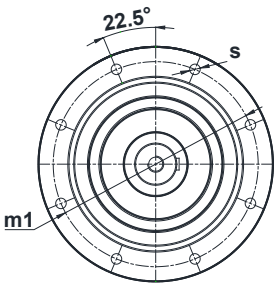


Output Flange

D.28 - D.67

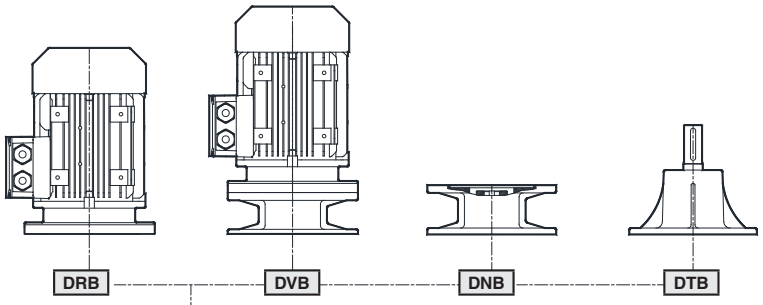


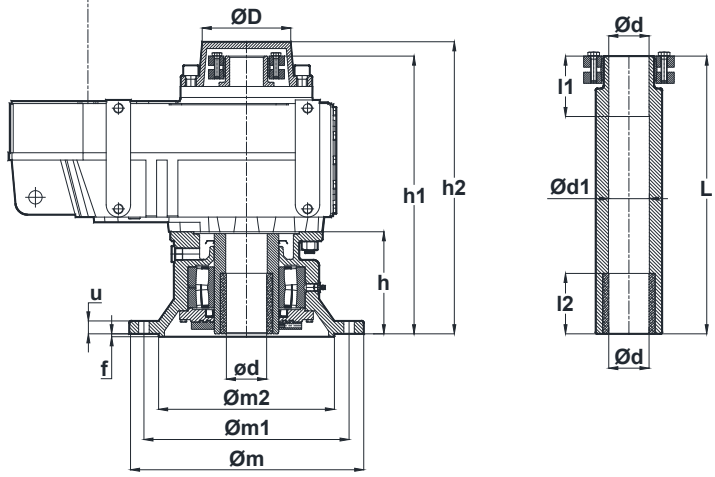
D.77 - D.97



Type	m	m1	m2	h	h1	f	u	s	d	l	e	t	M
D.B 28	250	215	180	96	255	4	16	13,5x4	40	80	43	12	M16
D.B 37	250	215	180	96	272	4	16	13,5x4	40	80	43	12	M16
D.B 47	300	265	230	100	307	4	20	14x4	50	100	53,5	14	M16
D.B 57	350	300	250	124	362	5	20	18x4	60	120	64	18	M20
D.B 67	400	350	300	174	473	5	22	18x4	75	140	79,5	20	M20
D.B 77	450	400	350	194	545	5	24	18x8	90	170	95	25	M24
D.B 87	550	500	450	210	625	5	28	18x8	110	210	116	28	M24
D.B 97	660	600	550	227	711	6	28	22x8	120	210	127	32	M24

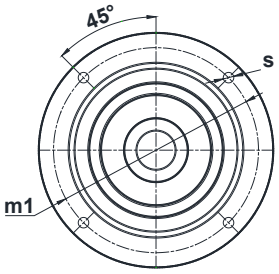
SA Shrink Disk Option



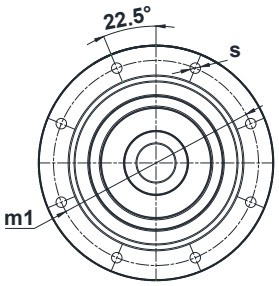


Output Flange

D.28 - D.67

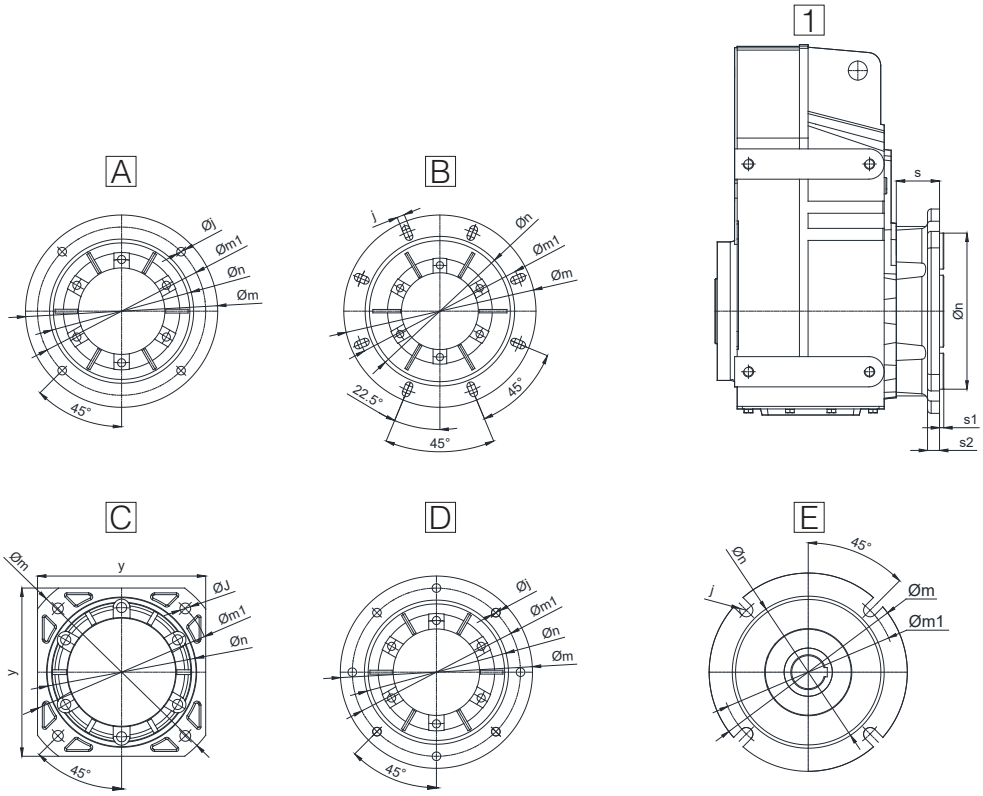


D.77 - D.97



Type	m	m1	m2	h	h1	h2	f	u	s	L	l1	l2	D	d	d1
D.B 28	250	215	180	96	288	304	4	16	13,5x4	288	35	30	104	40	41
D.B 37	250	215	180	96	306.5	325	4	16	13,5x4	306.5	45	50	106	40	41
D.B 47	300	265	230	100	343.5	360	4	20	14x4	343.5	47.5	52.5	120	50	51
D.B 57	350	300	250	124	400.5	423	5	20	18x4	400.5	55	60	159	60	61
D.B 67	400	350	300	174	512	540	5	22	18x4	512	60	65	164	70	71
D.B 77	450	400	350	194	604.5	626	5	24	18x8	604.5	80	80	204	90	91
D.B 87	550	500	450	210	693	720	5	28	18x8	693	85	90	252	110	111
D.B 97	660	600	550	227	787	810	6	28	22x8	787	90	80	288	120	121

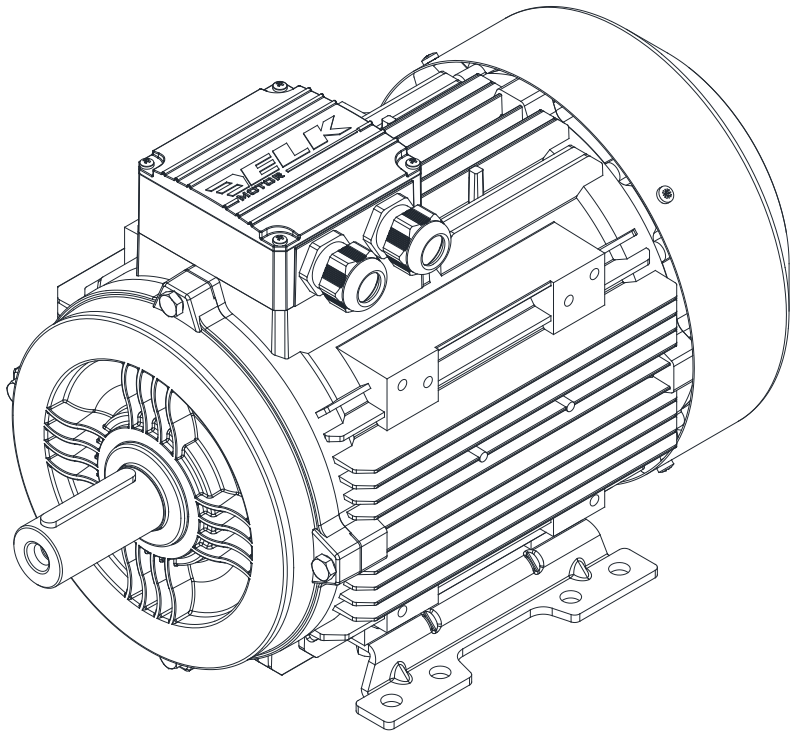
Optional Output Flange Dimensions



Type	Flange Code	Flange Type	Mounting Dimensions							
			øm	øm1	øn	j	s	s1	s2	y
D073 D173	DX05.5D173-200	E1	200	165	130	14	28	3,5	12	-
D273	DX05.5D273-250	A1	250	215	180	Ø14	39,5	4	15	-
D283 D373	MX05.5K373-250X05	A1	250	215	180	Ø14	86	4	15	-
	MX05.5K373-300	C1	300	265	230	14	46	4	16	240x240
	DX05.5D283-200	A1	200	165	130	12	30	4	19	-
	DX05.5D283-250	A1	250	215	180	Ø14	40	4	15	-
	DX05.5D373-300	A1	300	265	230	Ø14	40,5	4	15	-
D473	MX05.5K473-250	A1	250	215	180	14	28	4	16	-
	MX05.5K473-350	A1	350	300	250	Ø18	46,5	4	18	-
D573 D673	MX05.5K573X08	C1	350	300	250	Ø18	78	5	18	280x280
	MX05.5K573-300	A1	300	265	230	M12	30	4	20	-
	MX05.5K673-450	B1	450	400	350	18	62	5	22	-
	DX05.5D573-400	D1	400	350	300	Ø18	55	5	20	-
	DX05.5D673-450	D1	450	400	350	Ø18	54,5	5	20	-
D773	MX05.5K773-400	B1	400	350	300	Ø18	77	5	24	-
D873	MX05.5K873-450	B1	450	400	350	Ø18	99	5	26	-
	MX05.5K873-550X01	B1	550	500	450	18	51	5	25	-

DANA BREVINI® Motion Systems

ELECTRIC MOTORS RATINGS AND PERFOMANCE





ELECTRIC MOTORS RATINGS AND PERFOMANCE

400V 50Hz 3000 rpm

IE3

Type	Full-load Data								Starting Data		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Noise Level
	Power	Speed	Current	Torque	Power Factor	Efficiency % η			Current	Torque				
	kW	rpm	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
3E71M/2B	0,37	2830	0,86	1,25	0,81	76,6	77,0	75,0	6,0	2,8	3,0	0,00037	6,2	53
3E71M/2C	0,55	2830	1,19	1,86	0,84	79,4	80,2	78,8	6,1	2,9	3,3	0,00046	7,2	53
3E80M/2B	0,75	2880	1,59	2,49	0,84	80,7	82,0	81,5	6,7	3,0	3,6	0,00103	9,6	54
3E80M/2C	1,1	2880	2,26	3,64	0,85	82,7	83,0	82,4	6,8	3,1	3,8	0,00124	10,9	54
3E90S/2B	1,5	2900	2,97	4,94	0,86	84,8	85,4	84,2	7,6	3,1	3,9	0,00178	15,6	59
3E90L/2C	2,2	2900	4,25	7,24	0,87	85,9	86,8	86,1	7,2	3,0	3,8	0,00221	17,0	59
3E100L/2C	3	2910	5,58	9,85	0,89	87,1	87,6	86,9	7,9	3,0	4,1	0,00450	23,3	62
3E112M/2C	4	2915	7,28	13,1	0,90	88,1	88,8	88,2	7,5	2,6	3,9	0,00620	29,1	65
3E132S/2B	5,5	2945	9,9	17,83	0,90	89,2	89,0	88,6	8,9	2,9	3,9	0,01730	44,4	67
3E132S/2C	7,5	2945	13,2	24,32	0,91	90,1	90,5	89,7	8,4	2,6	4,0	0,02100	51,5	67
3E160M/2B	11	2950	19,7	35,6	0,88	91,2	91,0	90,5	8,0	2,6	3,9	0,03320	79,7	69
3E160M/2C	15	2950	25,9	48,55	0,91	91,9	92,1	91,6	8,9	3,1	4,2	0,03910	86,0	69
3E160L/2D	18,5	2945	31,7	60	0,91	92,4	92,7	92,3	8,9	3,1	4,2	0,04410	96,7	69
3E180M/2B	22	2957	38,1	71,05	0,90	92,7	92,9	92,0	8,6	2,6	3,9	0,06300	178	70
3E200L/2B	30	2970	52	96,46	0,89	93,6	93,8	93,6	8,9	3,2	3,5	0,16200	245	72
3E200L/2C	37	2970	62,6	119	0,91	93,7	93,8	93,4	9,3	3,2	3,4	0,17500	270	72
3E225M/2C	45	2975	75,6	144,4	0,91	94,3	94,6	94,0	9,8	3,5	3,9	0,25400	335	74
3E250M/2C	55	2970	93,3	176,9	0,90	94,4	94,8	94,5	8,9	3,3	3,4	0,38000	422	75
3E280S/2B	75	2980	127	240,35	0,90	94,7	94,7	94,0	7,5	2,7	3,2	0,79000	560	76
3E280M/2C	90	2985	150	287,94	0,91	95,0	95,1	94,5	7,6	2,7	3,1	0,90000	630	76
3G315S/2	110	2985	186	352	0,90	95,2	95,2	94,0	8,0	2,5	3,0	1,20000	742	76
3G315M/2	132	2985	223	422	0,90	95,4	95,4	94,1	8,0	2,4	3,5	1,40000	812	79
3G315L/2a	160	2985	265	512	0,91	95,6	95,6	94,2	8,0	2,5	3,0	1,50000	912	79



400V 50Hz 1500 rpm

IE3

Type	Full-load Data								Starting Data		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Noise Level
	Power	Speed	Current	Torque	Power Factor	Efficiency % η			Current	Torque				
	kW	rpm	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
3E71M/4C	0,25	1435	0,67	1,66	0,71	76,0	75,4	71,5	5,4	2,2	3,0	0,00082	6,8	45
3E71M/4D	0,37	1435	0,97	2,46	0,70	78,5	78,2	75,0	5,5	2,2	3,1	0,00093	7,5	45
3E80M/4C	0,55	1450	1,34	3,62	0,73	80,8	80,4	77,0	5,9	2,1	3,1	0,00200	10,5	50
3E80M/4D	0,75	1450	1,77	4,94	0,74	82,5	82,3	80,0	6,2	2,5	3,4	0,00227	11,6	50
3E90S/4C	1,1	1450	2,46	7,25	0,76	84,5	84,3	82,0	7,0	2,6	3,6	0,00355	16,3	51
3E90L/4D	1,5	1450	3,3	9,88	0,77	85,3	85,2	83,0	7,2	2,8	3,8	0,00410	18,0	51
3E100L/4C	2,2	1450	4,65	14,49	0,79	86,7	87,2	86,0	7,2	2,8	3,6	0,00780	24,4	53
3E100L/4D	3	1450	6,26	19,76	0,79	87,7	88,0	87,0	7,2	2,8	3,6	0,00890	26,7	53
3E112M/4D	4	1460	8,05	26,16	0,81	88,6	88,4	87,5	7,4	2,8	3,8	0,01430	33,9	58
3E132S/4C	5,5	1460	10,65	36	0,83	89,6	90,2	90,0	7,4	2,8	3,4	0,03060	53,4	61
3E132M/4D	7,5	1465	14,4	48,9	0,83	90,4	90,4	89,4	7,9	3,0	3,8	0,03420	59,5	61
3E160M/4C	11	1470	21	71,46	0,83	91,5	92,1	91,7	7,6	2,8	3,3	0,07010	89,2	63
3E160L/4D	15	1470	28,7	97,45	0,82	92,1	92,4	91,9	7,8	2,8	3,6	0,08600	97,5	63
3E180M/4C	18,5	1475	35	119,8	0,82	92,6	93,2	92,9	7,7	3,0	3,3	0,12900	173	64
3E180L/4D	22	1470	41,4	142,92	0,82	93,0	93,7	93,7	8,0	3,0	3,4	0,14700	187	64
3E200L/4D	30	1475	54,5	194,2	0,85	93,6	94,1	94,0	8,0	3,0	3,4	0,28400	258	65
3E225S/4C	37	1478	65,7	239	0,87	93,9	94,5	94,5	8,3	3,2	3,3	0,38200	320	66
3E225M/4D	45	1477	80	290,9	0,86	94,2	94,7	94,7	8,6	3,3	3,2	0,44100	352	67
3E250M/4D	55	1482	95,3	354,4	0,88	94,6	95,1	95,2	8,7	3,3	3,2	0,73400	470	68
3E280S/4C	75	1485	129,5	482,3	0,86	95,0	95,3	95,1	7,9	3,0	3,2	1,40000	646	69
3E280M/4D	90	1485	155,5	578,8	0,86	95,2	95,7	95,7	7,9	3,1	3,2	1,50000	670	70
3G315S/4	110	1487	194	706	0,86	95,4	95,2	95,0	7,4	2,4	3,0	2,5000	861	74
3G315M/4a	132	1488	226	847	0,88	95,6	95,4	95,3	7,4	2,4	3,0	2,8000	882	74
3G315L/4a	160	1488	275	1027	0,88	95,8	95,6	95,6	6,9	2,2	2,9	3,0000	930	74



400V 50Hz 1000 rpm

IE3

Type	Full-load Data								Starting Data		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Noise Level
	Power	Speed	Current	Torque	Power Factor	Efficiency % η			Current	Torque				
	kW	rpm	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
3E71M/6C	0,18	930	0,55	1,85	0,69	68,0	67,4	62,6	3,6	2,0	2,4	0,00096	6,7	41
3E71M/6D	0,25	930	0,77	2,57	0,67	70,0	69,7	66,0	3,6	2,2	2,5	0,00116	7,5	41
3E80M/6B	0,37	930	1,03	3,8	0,70	74,0	73,8	70,0	4,4	2,1	2,6	0,00202	9,8	43
3E80M/6C	0,55	935	1,47	5,62	0,70	77,2	77,3	74,4	4,3	2,2	2,7	0,00228	10,6	43
3E90S/6B	0,75	945	1,96	7,58	0,70	78,9	79,2	77,6	4,7	2,2	2,7	0,00354	14,6	46
3E90L/6C	1,1	940	2,75	11,2	0,71	81,0	80,8	79,4	5,0	2,2	2,7	0,00428	17,0	46
3E100L/6B	1,5	955	3,5	15	0,75	82,5	82,7	81,4	5,3	2,1	2,8	0,00820	22,5	50
3E112M/6B	2,2	960	4,95	21,9	0,76	84,3	84,5	83,5	5,5	2,2	3,0	0,01320	27,2	56
3E132S/6B	3	970	6,55	29,4	0,77	85,6	85,5	84,5	6,2	2,1	3,0	0,03050	46,5	58
3E132M/6C	4	970	8,52	39,4	0,78	86,8	87,0	85,5	6,2	2,2	3,0	0,03500	51,0	58
3E132M/6D	5,5	965	11,55	54,4	0,78	88,0	88,9	88,5	6,2	2,2	3,0	0,03940	56,0	58
3E160M/6D	7,5	972	15,55	73,8	0,78	89,1	89,4	88,4	6,3	2,6	3,0	0,07870	96,0	61
3E160L/6E	11	972	22,9	108,07	0,77	90,3	90,9	90,5	6,6	2,9	3,3	0,08580	104	62
3E180L/6E	15	975	30,80	147,92	0,77	91,2	91,6	91,0	6,7	2,9	3,1	0,15300	187	63
3E200L/6C	18,5	977	36,4	180,8	0,80	91,7	91,8	91,8	6,1	2,6	2,6	0,36100	225	64
3E200L/6D	22	978	42,5	214,8	0,81	92,2	92,9	93,0	6,2	2,6	2,7	0,39400	245	64
3E225M/6C	30	985	57,6	290,8	0,81	92,9	92,9	92,6	6,6	2,6	2,7	0,60000	326	65
3E250M/6C	37	988	68,8	357,6	0,83	93,4	93,6	93,5	6,8	2,7	2,68	0,82000	432	65
3E280S/6B	45	989	82,5	434,5	0,84	93,7	93,9	93,2	6,8	2,9	2,8	1,45000	540	65
3E280M/6C	55	989	100,4	531	0,84	94,1	94,4	93,5	6,9	2,9	2,9	1,6500	575	65
3G315S/6	75	992	140	722	0,82	94,6	94,6	94,4	7,2	2,7	3,0	2,9000	805	72
3G315M/6a	90	992	166	866	0,82	94,9	94,9	94,5	7,2	2,7	3,0	3,5000	860	72
3G315M/6b	110	992	198	1059	0,84	95,1	95,1	94,9	7,2	2,7	3,0	4,2000	980	72
3G315L/6	132	992	235	1271	0,85	95,4	95,4	95,2	7,2	2,7	3,0	4,3000	1150	72
3G355M/6a	160	993	197	1539	0,82	95,6	95,6	95,0	7,0	2,4	3,2	6,8000	1185	72



400V 50Hz 3000 rpm

IE2

Type	Full-load Data								Starting Data		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Noise Level
	Power	Speed	Current	Torque	Power Factor	Efficiency % η			Current	Torque				
	kW	rpm	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
G56/2b *	0,12	2800	0,35	0,41	0,74	64,5	64,1	56,9	4,2	2,5	2,8	0,00012	2,8	42
G63/2a *	0,18	2820	0,5	0,61	0,73	64,4	64,2	57,7	4,6	2,9	2,9	0,00011	3,6	52
G63/2b *	0,25	2840	0,67	0,84	0,63	67,3	67,1	60,9	4,5	2,5	2,9	0,00013	4,0	52
2E71M/2A	0,37	2790	0,9	1,26	0,80	74,2	74,5	72,5	5,0	2,5	2,8	0,00031	5,5	54
2E71M/2B	0,55	2790	1,27	1,88	0,82	75,8	77,0	76,0	5,0	2,8	2,9	0,00037	6,3	54
2E80M/2A	0,75	2850	1,67	2,51	0,83	78,0	79,0	77,5	5,7	2,5	3,0	0,00089	8,7	56
2E80M/2B	1,1	2850	2,36	3,69	0,84	80,1	81,3	80,7	5,8	2,7	3,1	0,00103	9,7	56
2E90S/2A	1,5	2880	3,17	4,98	0,83	82,5	82,6	82,0	6,0	2,6	3,3	0,00152	14,1	60
2E90L/2B	2,2	2860	4,48	7,35	0,85	83,2	85,0	85,0	6,0	2,6	3,1	0,00178	15,5	60
2E100L/2B	3	2890	5,8	9,91	0,88	84,8	85,2	84,7	7,0	2,6	3,4	0,00380	20,8	63
2E112M/2A	4	2910	7,6	13,13	0,88	86,5	87,1	86,8	7,0	2,4	3,6	0,00530	25,7	66
2E132S/2A	5,5	2935	10,2	17,9	0,88	88,2	88,4	87,6	7,9	2,8	3,9	0,01550	41	68
2E132S/2B	7,5	2925	13,6	24,5	0,90	88,5	88,8	88,6	7,6	2,6	3,9	0,01730	45,2	68
2E160M/2A	11	2940	19,6	35,73	0,90	89,8	90,0	89,0	7,4	2,7	3,6	0,02920	71,4	70
2E160M/2B	15	2935	26,9	48,8	0,89	90,3	91,0	90,7	7,0	2,6	3,5	0,03320	77,0	70
2E160L/2C	18,5	2935	32,2	60,19	0,91	91,1	91,5	91,0	8,2	2,9	3,8	0,03910	89,0	70
2E180M/2A	22	2955	39,0	71,1	0,89	91,4	91,6	90,6	7,9	2,6	3,6	0,06300	163	71
2E200L/2A	30	2965	52	96,63	0,90	92,4	92,7	92,2	8,0	2,9	3,1	0,14600	230	74
2E200L/2B	37	2965	64	119,2	0,90	92,7	93,2	93,0	8,4	3,1	3,3	0,16200	240	75
2E225M/2B	45	2970	77,4	144,7	0,90	93,2	93,5	93,0	8,6	2,7	3,7	0,22000	310	75
2E250M/2B	55	2970	94,5	176,8	0,90	93,3	93,6	93,1	7,9	2,7	3,6	0,32800	388	77
2E280S/2A	75	2978	128	240,5	0,90	93,8	94,0	93,0	7,9	2,7	3,0	0,70000	510	77
2E280M/2B	90	2980	153	288,4	0,90	94,1	94,2	93,1	7,5	2,8	3,2	0,79000	570	77
2G315S/2	110	2980	192	352	0,88	94,3	94,3	92,8	7,0	2,5	3,0	1,00000	742	79
2G315M/2a	132	2980	224	423	0,90	94,6	94,5	93,3	8,0	2,5	3,0	1,20000	812	79
2G315M/2b	160	2980	266	513	0,92	94,8	94,8	93,4	7,8	2,5	3,2	1,40000	912	79

* : IE1 Data



ELECTRIC MOTORS RATINGS AND PERFOMANCE

400V 50Hz 1500 rpm

IE2

Type	Full-load Data								Starting Data		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Noise Level
	Power	Speed	Current	Torque	Power Factor	Efficiency % η			Current	Torque				
	kW	rpm	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
G63/4a *	0,12	1365	0,41	0,84	0,74	57,1	57,1	53,3	3,1	2,0	2,2	0,00017	3,4	43
G63/4b *	0,18	1340	0,6	1,28	0,73	59,7	59,7	55,8	2,9	2,0	2,0	0,00021	3,9	43
2E71M/4B	0,25	1425	0,71	1,68	0,69	74,0	73,5	70,5	4,4	2,0	3,0	0,00067	5,9	46
2E71M/4C	0,37	1425	1,0	2,47	0,70	76,1	75,5	71,5	4,6	2,0	3,0	0,00082	6,7	46
2E80M/4B	0,55	1440	1,45	3,65	0,71	77,1	76,7	75,0	5,2	2,0	3,0	0,00175	9,7	50
2E80M/4C	0,75	1440	1,95	4,97	0,70	79,6	79,2	77,0	5,2	2,0	3,0	0,00200	10,5	50
2E90S/4B	1,1	1440	2,6	7,3	0,75	81,4	81,4	80,5	5,6	2,2	3,1	0,00281	14,4	52
2E90L/4C	1,5	1440	3,4	9,95	0,77	82,8	83,0	82,0	6,0	2,3	3,2	0,00356	17,2	52
2E100L/4B	2,2	1445	4,85	14,6	0,78	84,3	85,3	84,2	6,0	2,4	3,2	0,00634	22,7	54
2E100L/4C	3	1440	6,42	19,89	0,79	85,5	85,7	84,6	6,3	2,4	3,3	0,00775	24,2	54
2E112M/4C	4	1450	8,2	26,35	0,81	86,8	87,4	86,5	6,6	2,5	3,4	0,01220	32	58
2E132S/4B	5,5	1455	11,2	36,1	0,81	87,7	88,6	88,0	6,7	2,6	3,2	0,02520	47,8	62
2E132M/4C	7,5	1460	15,1	49	0,81	88,7	89,0	89,0	7,0	2,7	3,3	0,03060	54,8	62
2E160M/4B	11	1465	21,3	71,7	0,83	89,8	90,3	89,5	6,9	2,4	3,0	0,05800	76,8	65
2E160L/4C	15	1460	28,8	98,12	0,83	90,6	91,3	90,9	6,9	2,6	3,0	0,07000	88,6	65
2E180M/4B	18,5	1465	34,9	120,6	0,84	91,2	91,4	91,4	6,9	2,5	3,0	0,11100	158	65
2E180L/4C	22	1465	41,4	143,40	0,84	91,6	91,7	91,5	7,1	2,6	3,2	0,12900	174	65
2E200L/4C	30	1475	55,5	194,24	0,85	92,3	93,0	93,2	7,6	3,0	3,1	0,23300	241	65
2E225S/4B	37	1475	66	239,5	0,87	93,0	93,8	93,8	7,8	3,0	3,1	0,33900	297	66
2E225M/4C	45	1475	80	291,4	0,87	93,1	94,0	94,3	7,8	3,0	3,0	0,38200	333	66
2E250M/4C	55	1478	95,5	355,4	0,89	93,5	94,3	94,4	7,9	3,2	3,0	0,62400	430	68
2E280S/4B	75	1483	130,8	482,97	0,88	94,0	94,5	94,4	7,9	3,0	3,0	1,25000	618	69
2E280M/4C	90	1484	156	579,2	0,88	94,2	94,6	94,5	7,9	3,2	3,1	1,40000	648	70
2G315S/4	110	1485	195	707	0,86	94,5	94,5	93,8	7,4	2,0	3,0	2,10000	784	74
2G315M/4a	132	1485	230	849	0,87	94,7	94,5	93,8	7,4	2,1	3,0	2,50000	861	74
2G315M/4b	160	1485	280	1029	0,87	94,9	94,9	94,0	7,0	2,0	2,9	2,80000	882	74

*** : IE1 Data**



400V 50Hz 1000 rpm

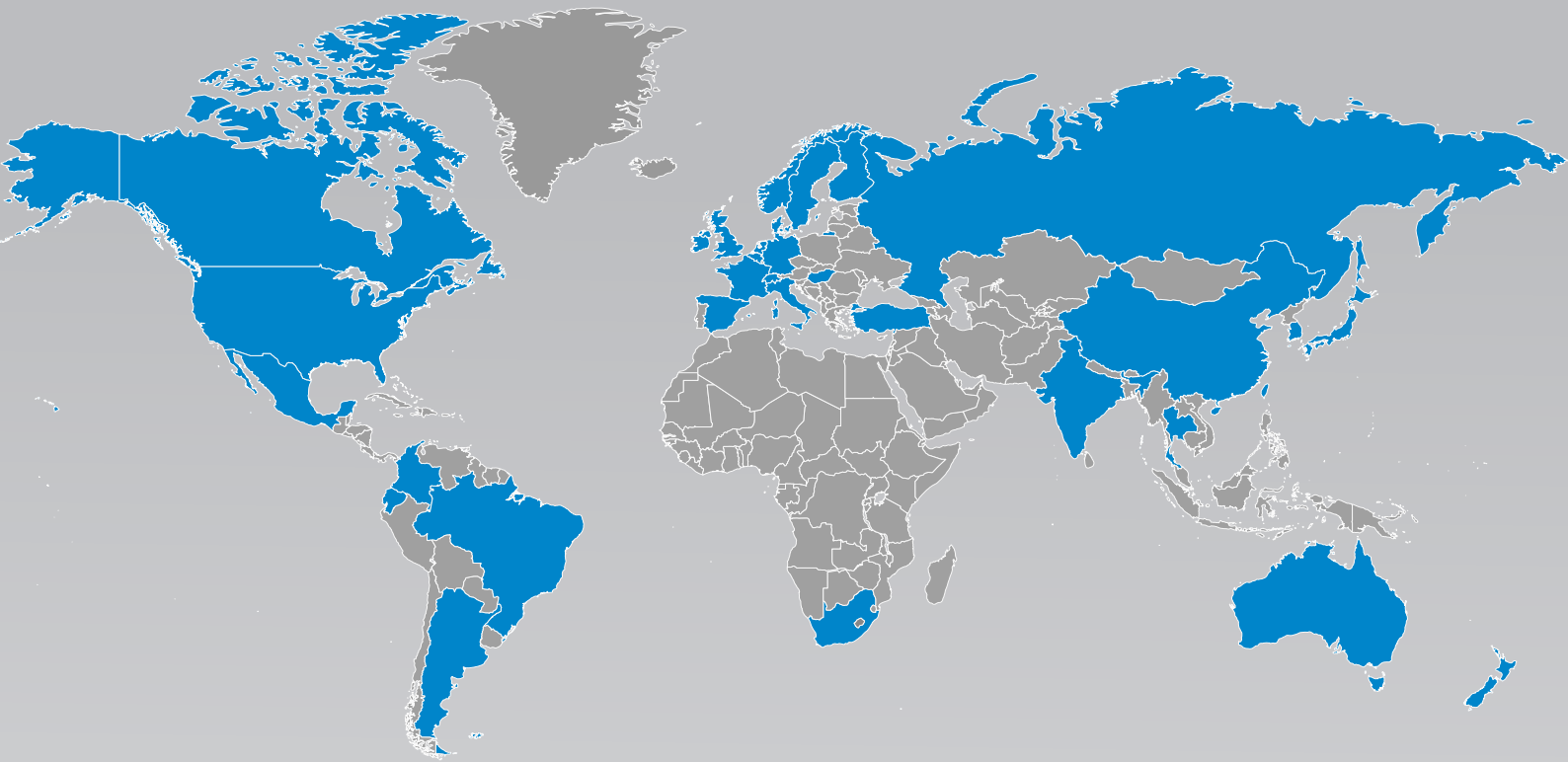
IE2

Type	Full-load Data								Starting Data		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Noise Level
	Power	Speed	Current	Torque	Power Factor	Efficiency % η			Current	Torque				
	kW	rpm	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
2E71M/6B	0,18	920	0,6	1,87	0,67	64,5	63,0	57,0	3,2	1,9	2,3	0,00076	5,9	42
2E71M/6C	0,25	920	0,78	2,59	0,69	66,5	66,0	61,0	3,3	1,9	2,3	0,00096	6,6	42
2E80M/6A	0,37	925	1,08	3,82	0,69	71,4	71,5	70,0	4,0	2,0	2,6	0,00176	9,1	45
2E80M/6B	0,55	932	1,5	5,64	0,72	73,5	74,0	71,0	4,2	2,1	2,6	0,00202	9,9	45
2E90S/6A	0,75	940	2,0	7,62	0,71	75,9	76,1	73,1	4,1	2,0	2,6	0,00229	13,3	48
2E90L/6B	1,1	940	2,9	11,18	0,70	78,1	78,3	75,0	4,3	2,1	2,6	0,00354	14,8	48
2E100L/6A	1,5	950	3,72	15	0,73	79,8	80,2	79,5	4,5	2,1	2,6	0,00680	20,2	52
2E112M/6A	2,2	960	5,32	21,9	0,73	81,8	82,0	81,5	5,3	2,1	2,7	0,01170	25	56
2E132S/6A	3	970	6,85	29,6	0,76	83,3	84,0	83,0	5,6	2,0	2,8	0,02610	42	60
2E132M/6B	4	970	8,8	39,38	0,77	85,2	85,7	85,3	5,2	2,1	2,6	0,03050	46	60
2E132M/6C	5,5	965	12	54,4	0,77	86,0	87,2	87,0	5,7	2,1	2,7	0,03500	51	60
2E160M/6B	7,5	972	16,3	73,68	0,76	87,2	88,1	87,7	5,6	2,4	2,7	0,05700	77,8	63
2E160L/6D	11	970	22,95	108,3	0,78	88,7	90,0	89,9	6,0	2,5	2,9	0,07870	97,8	63
2E180L/6D	15	972	31	147,4	0,78	89,7	90,5	90,2	6,2	2,5	2,9	0,13500	175	64
2E200L/6B	18,5	977	36,5	180,8	0,81	90,4	90,5	90,7	6,3	2,5	2,6	0,30100	205	64
2E200L/6C	22	978	43	214,8	0,81	91,1	91,3	91,2	6,2	2,5	2,6	0,33400	215	64
2E225M/6B	30	980	57,6	292,2	0,82	91,7	91,8	90,8	6,6	2,6	2,7	0,52000	314	65
2E250M/6B	37	982	69,6	359,80	0,83	92,3	92,6	92,5	6,8	2,7	2,8	0,68000	395	66
2E280S/6A	45	985	84,5	436	0,83	92,7	93,1	92,2	6,8	2,8	2,8	1,15000	490	66
2E280M/6B	55	985	101,5	533,2	0,84	93,1	93,2	93,5	6,9	2,9	2,8	1,45000	545	66
2G315S/6	75	990	139	723	0,83	93,7	93,7	92,4	7,0	2,0	2,5	2,40000	727	72
2G315M/6a	90	990	166	868	0,83	94,0	94,0	92,6	7,0	2,0	2,5	2,90000	805	72
2G315M/6b	110	990	198	1061	0,85	94,3	94,3	92,7	7,0	2,0	2,6	3,50000	860	72
2G315L/6a	132	990	240	1273	0,84	94,6	94,6	93,0	7,0	2,3	3,0	3,60000	1020	72
2G315L/6b	160	990	290	1543	0,84	94,8	94,8	93,2	7,0	2,3	2,7	4,20000	1120	72



Notes

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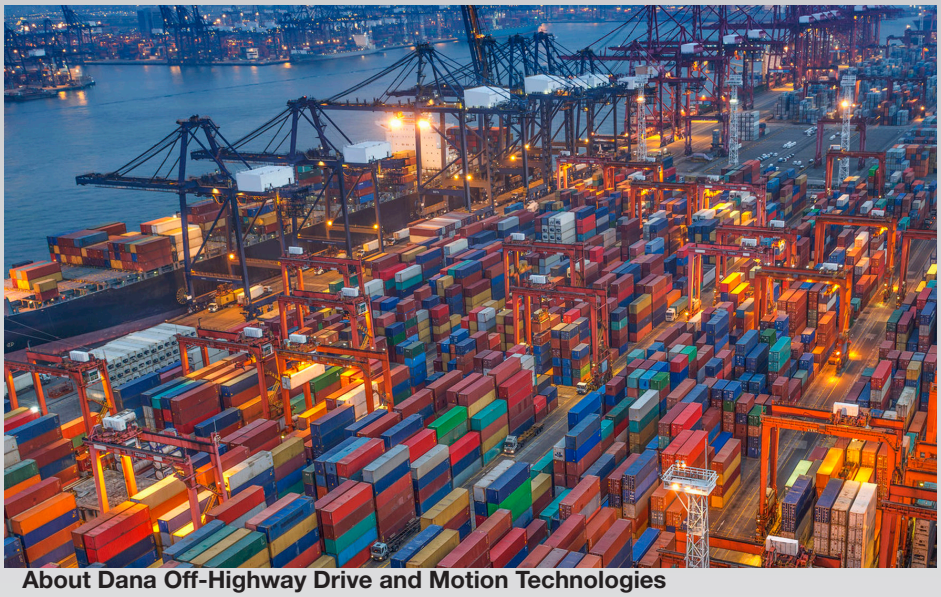


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