

PRODUCT DATASHEET



HELICAL **BEVEL** GEARED MOTOR WITH ACCESSORIES/MOTOR

DATE 24.09.2019

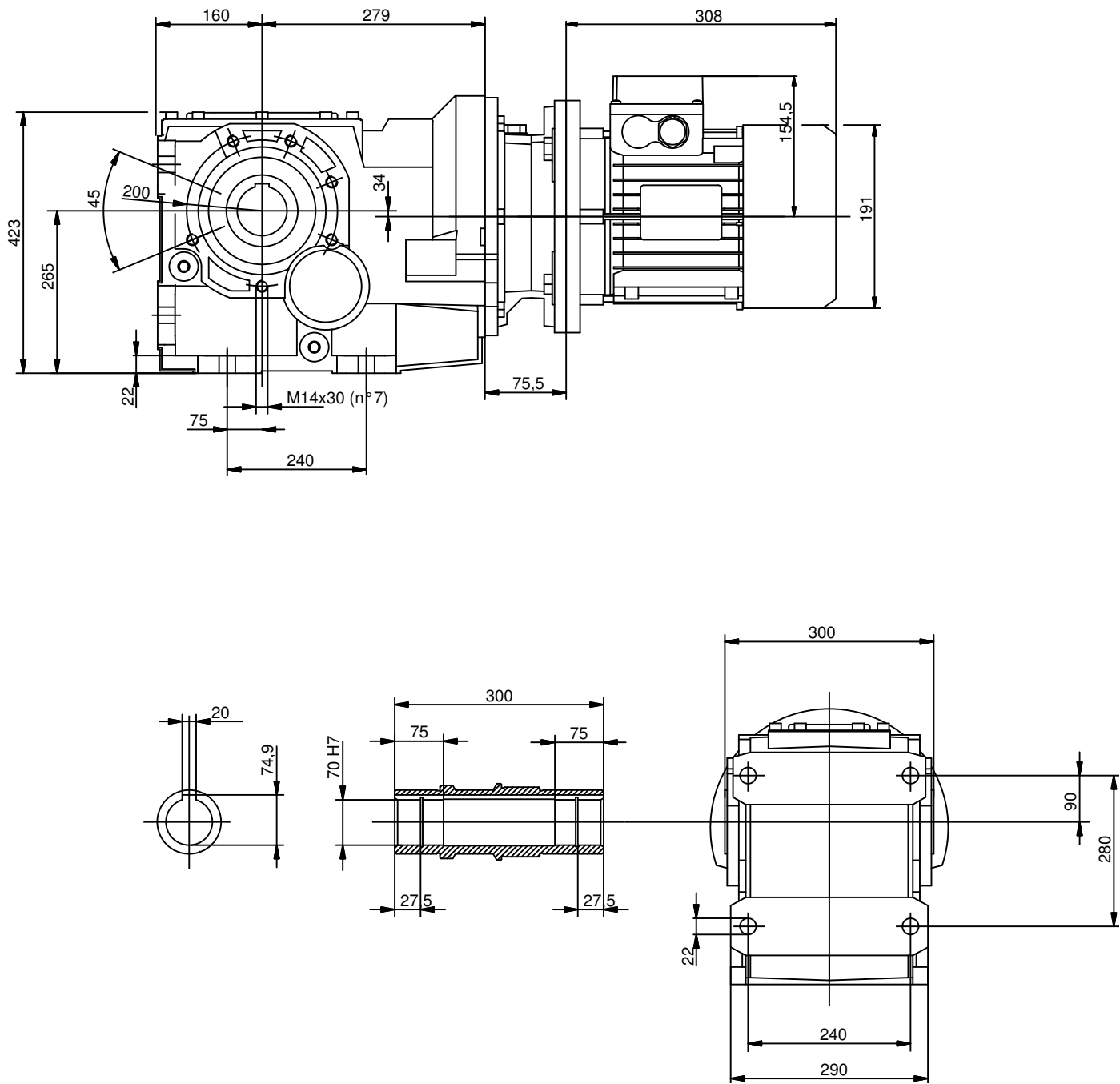
CONFIGURATION

PRODUCT DATASHEET

CHARACTERISTIC	VALUE
Motor/Inverter Motor	With Motor
Regulations	No
Bevel Helical	PAM B
Size	143
Housing Version	U-Universal
Output Shaft Version	C-Hollow Shaft
Ratio (i)	166,53
Input Dim.	Ø250x28 (IEC100-112 B5)
Output Shaft Dim.	Ø70
Rotation Direction	Standard
ON-Oil Plugs	Breather-Drain-Level(Stand.)
Mounting Position	B3
Output Flange	No
Output Shaft	No
Torque Arm	No
ON-Output Oil Seal	NBR-Nitrile
ON-Input Oil Seal	NBR-Nitrile
ON-Lubrication	Without Oil
Paint	Ral 5010 Blue
Supplier	Motovario
Regulations	CE
Motor	Three-Phase
Size	100
Series	Premium Efficiency
Poles	4
Electrical Execution	Std (Voltage Tolerance +/- 10%)
Service	S1
Voltage	230/400-265/460 V
Frequency	50-60 Hz
Power	2,2 kW
Cooling	Self-Ventilated
Mounting Arrangements	B5
Terminal Box	Pos.1
Flange Dim.	Ø250
Shaft Dim. (DE)	Ø28x60
Rear Shaft End (NDE)	No
Insulation Rating	F
Protection Rating	IP55
Thermal Protectors	No
Ambient Conditions	Standard

CHARACTERISTIC	VALUE
Heaters	No
Condensation Drainage	No
Devices	No
Accessories	None
Terminal Box Cover	Aluminium
Fan	Plastic
Fan Cover	Standard
MO-Notes	No

Values expressed in [mm]



PERFORMANCES

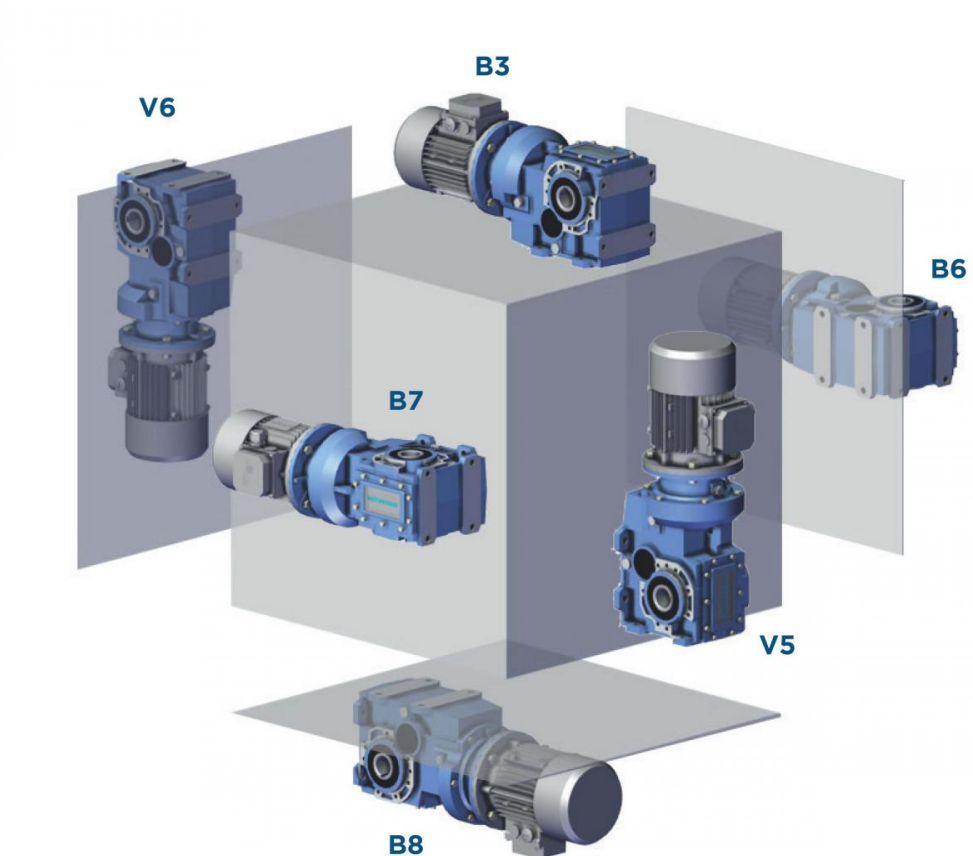
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2,20 kW (50Hz)

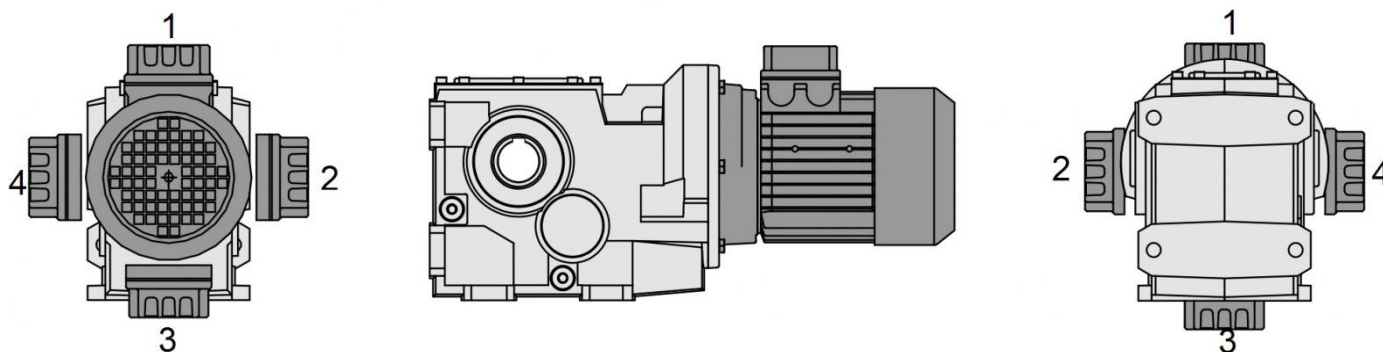
n2 [rpm]	M2 [Nm]	fs	i	Gear reducer	Motor	Fr2 D-S-P [N]	Fr2 C [N]
8,6	2187	2,3	166,53	B143	TP100LA4	40000	40000

MOUNTING POSITIONS

The mounting position of the gear unit identifies its space orientation. B3 mounting position, as from a technical point of view, ensures lower oil splash, better lubrication and less heating.



Unless otherwise specified when ordering, the gear reducer is supplied with terminal box in position 1.



- For the reduction units B series it is always necessary to specify the mounting position.
- The reduction units BA.. series with 2, 3 stages and B060, are supplied complete with lubricant, have no oil plugs and need no maintenance.
- The gear reducer B series sizes 080, 100 are supplied complete with lubricant and are fitted with oil plugs to suit any mounting position included in the catalogue.
- The gear reducer B series sizes 140, 150, 160 have no lubricant and are fitted with oil plugs to suit any mounting position included in the catalogue. The oil filling can be done on request, in this case it is recommended, after installation, to replace the closed plug used for transportation with the supplied breather plug. When the reduction unit is supplied without lubricant, it is provided with a label to be filled.

It is recommended, after installation, to replace the closed plug used for transportation with the supplied breather plug. Oil quantity in the table (litres ~) are indicative; for a proper use you will have to refer to the level plug or the dipstick. Any level difference could depend on construction tolerances, but also by the placement of the unit or by the mounting surface at the customer's premises. It is appropriate to check and, if necessary, restores the level when the units are installed.

B	A42	A52	A53	A72	A73
B3	0,33	0,42	0,63	1	1,21
B8					
B6/B7					
V5					
V6					

CB	A42	A52	A53	A72	A73
B3	0,33	0,42	0,55	1	1,13
B8					
B6/B7					
V5					
V6					

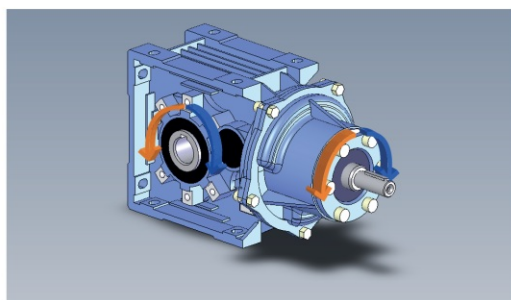
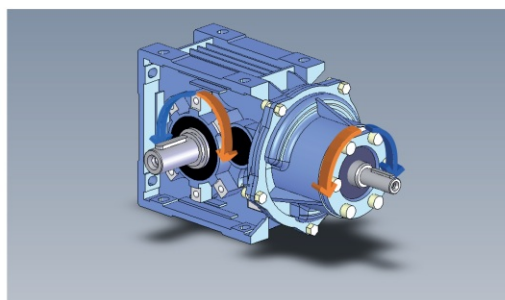
B-CB	063	083	103	123	143	153	163
B3	1,2	2,5	3,7	5,7	11,1	19	33
B8	1,5	2,8	4,2	7,9	13	17,5	42,8
B6	1,5	3,5	6	8,5	14,5	26	43
B7	1,5	2,8	3,9	7,3	11,8	19	30
V5	2,1	3,7	7	9,9	18,5	32,5	54,5
V6	1,3	2,6	4,5	6,7	10,8	16,5	37,3

DIRECTION OF ROTATION

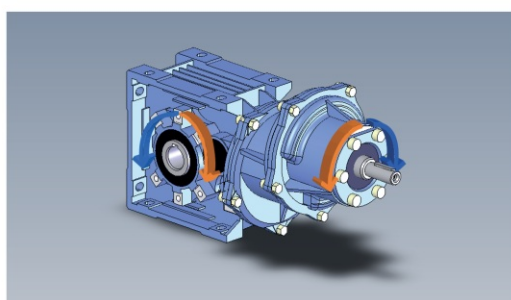
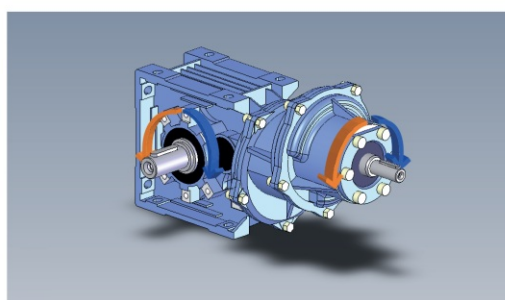
Helical bevel reduction units are supplied as “standard” with rotation as shown in the diagram. On request, the direction of rotation of low speed shaft can be reversed; in this case, it is necessary to specify “opposite rotation to catalogue” when ordering. The “opposite rotation to catalogue” is not possible for sizes BA42 - BA52 - BA53.

DIRECTION OF ROTATION - HIGH SPEED SHAFT

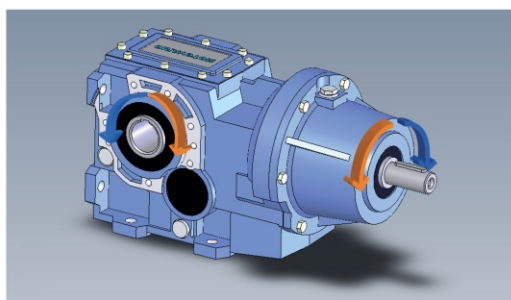
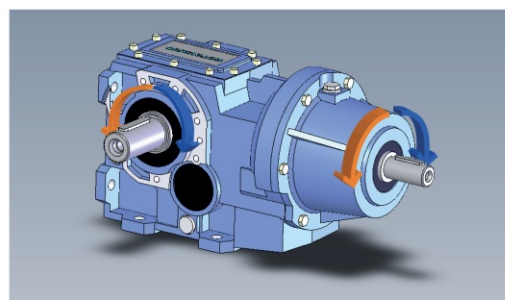
B-CB-IB A42-A52-A72

VERSIONS **C-D-P-L**VERSION **S**

B-CB-IB A53-A73

VERSIONS **C-D-P-L**VERSION **S**

B-PB-CB-IB 063-163

VERSIONS **C-D-P-L**VERSION **S-M**