Ref. R000165904
Technical Report 1.0

DE-17-001952/00 pos. 1

Helical Gearmotor – G series

Motor catalogue TX (Frequency 50 Hz)

Application given data
N.A.

Designation: MR 2I 80 UP2A - 28 x 250 - 8,03 B3 HB3 112M 4 230.400-50 B5
Mounting position B3, n_1 = 1400 [min^{-1}]

Standard product : Yes

Accessories and special designs

Reducer/Gearmotor specifications

Transmission ratio i		8,03
Output speed n_2	[min^{-1}]	174
Input speed n_1	[min^{-1}]	1400
Input power P_1	[kW]	4,00
Output torque M_2	[N m]	210
Service factor *f*s		3,15
Efficiency		0,96
Mass of gear reducer (without motor)	[kg]	26
Previsional lubricant quantity	[l]	1,5
ISO viscosity grade (T 10-40 °C)	[cSt]	220

Nominal Data

Nominal input power P_{N1}	[kW]	12,4
Nominal output power P_{N2}	[kW]	11,9
Nominal output torque M_{N2}	[N m]	653
Maximum output torque M_{2max}	[N m]	1045

Verifications

Safety factor on M_{2peak}	N.A.
Thermal power verfication	N.A.
External loads verificaton	N.A.

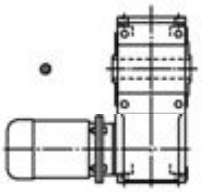
Motor specifications

Type		HB3 112M 4
Coupling dimensions DxE-P		28 x 60 - 250
Supply	[V-Hz]	230.400 - 50
Nominal power P_N	[kW]	4,00
Nominal speed *n*	[min^{-1}]	1450
Mass of motor	[kg]	35
Efficiency		0,89
Cos (phi)		0,770
Moment of inertia J_o	[kgm^2]	0,0140

Nominal Data

Nominal output torque M_N	[N m]	26,30
Starting torque M_S	[N m]	97,30
Maximum torque M_{max}	[N m]	120,98

Top view with M.P. B3



N.A: Not Applied

Germany
Rossi GmbH
e-mail: info.germany@rossi-group.com
www.rossi-group.com/germany

Rossi S.p.A.
Via Emilia Ovest 915/A - Modena - Italy
Tel. 059 330288 - Fax 059 827774
info@rossi-group.com - www.rossi-group.com

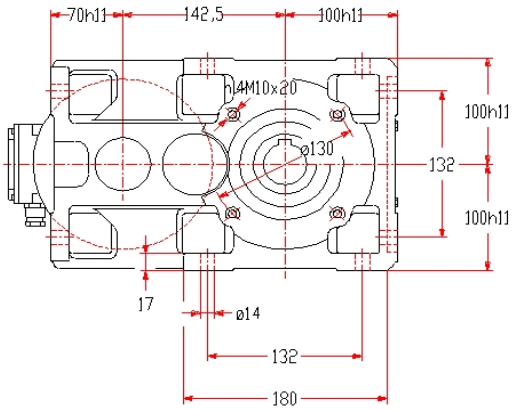
Ref. R000165904
Technical Report 1.0

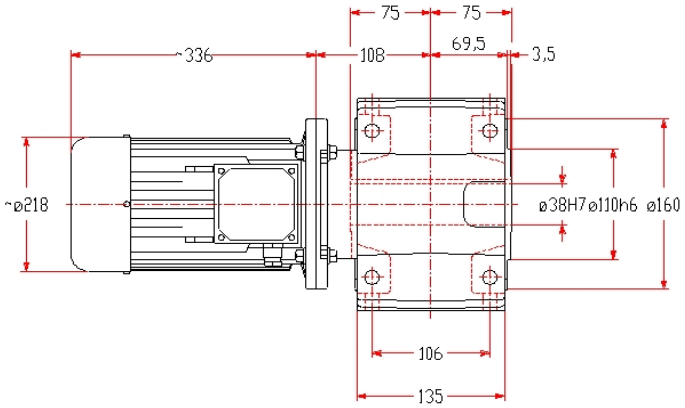
DE-17-001952/00 pos. 1

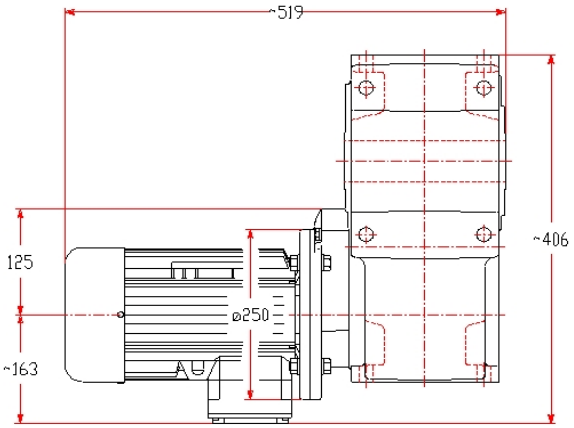
Helical Gearmotor - catalogue G

Motor catalogue TX (Frequency 50 Hz)

Main Dimensions [mm] (only for standard gearbox, in case of non-standard design see the drawing on the next page)







a) The effective dimensions of electric motor may not match with the ones stated, in case of accessories etc.: consult us in case of trouble regarding the overall dimensions;
b) The position of motor terminal box shown in the dimensional drawing is the standard one and may not match with the really required position;
c) In case of brake motor the dimensional drawing always shows the release lever which is supplied only on request;
d) When offering a gearmotor without motor, motor dimensions stated in the drawing must be updated by the Customer according to the really applied motor;

Informations and warnings:

Mounting nuts: M12 UNI 5588. With screw UNI 5737, see pag. 370 Cat. G series

Germany
Rossi GmbH
e-mail: info.germany@rossi-group.com
www.rossi-group.com/germany

Rossi S.p.A.
Via Emilia Ovest 915/A - Modena - Italy
Tel. 059 330288 - Fax 059 827774
info@rossi-group.com - www.rossi-group.com

Ref. R000165904
Technical Report 1.0

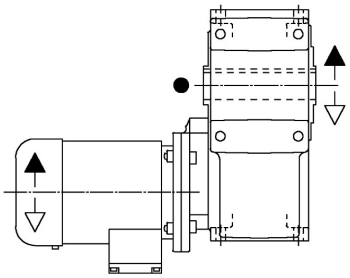
DE-17-001952/00 pos. 1

Helical Gearmotor - catalogue G

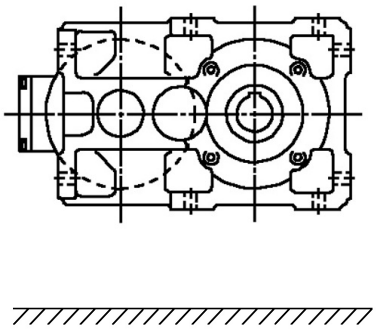
Motor catalogue TX (Frequency 50 Hz)

Design: UP2A

Mounting position: B3



● Groove side



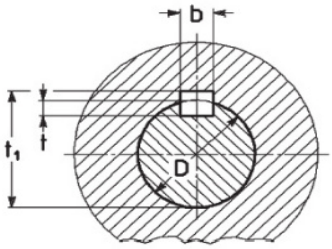
Plugs position

SUPPLIED FILLED WITH OIL

(FOR LIFE)

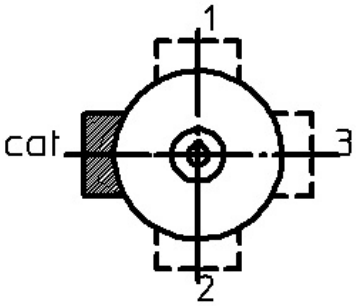
▽ = filler plug (in view/not in view)
◐ = level plug (in view/not in view)
◧ = drain plug (in view/not in view)

Standard hollow low speed shaft



D	b x h x l	b	t	t_1
ø38 H7	10 x 8 x 90	10	5,5	40,7

Terminal box position according to M.P.: Cat.



Germany
Rossi GmbH
e-mail: info.germany@rossi-group.com
www.rossi-group.com/germany

Rossi S.p.A.
Via Emilia Ovest 915/A - Modena - Italy
Tel. 059 330288 - Fax 059 827774
info@rossi-group.com - www.rossi-group.com