

**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<sup>-1</sup>]

Standard product : Yes

**Accessories and special designs**

**Reducer/Gearmotor specifications**

Transmission ratio $i$		8,03
Output speed $n_2$	[min <sup>-1</sup> ]	174
Input speed $n_1$	[min <sup>-1</sup> ]	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 verification	N.A.
External loads verification	N.A.

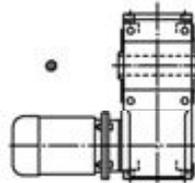
**Motor specifications**

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 <sup>-1</sup> ]	1450
Mass of motor	[kg]	35
Efficiency		0,89
Cos (phi)		0,770
Moment of inertia $J_o$	[kgm <sup>2</sup> ]	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



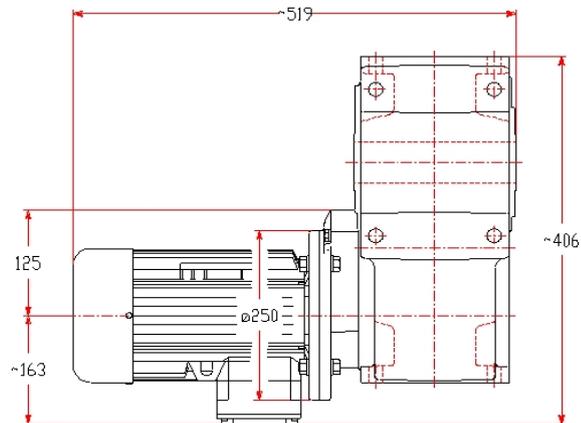
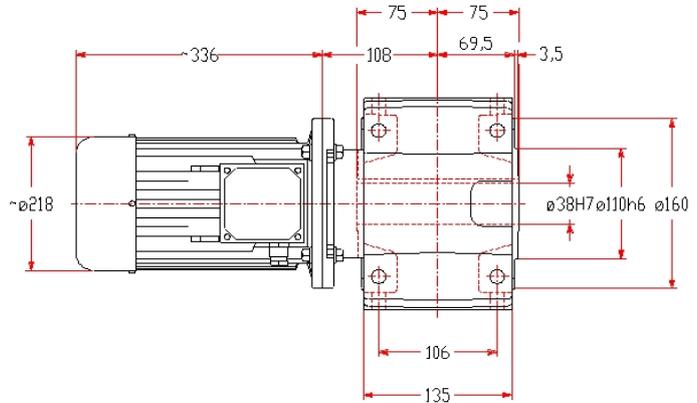
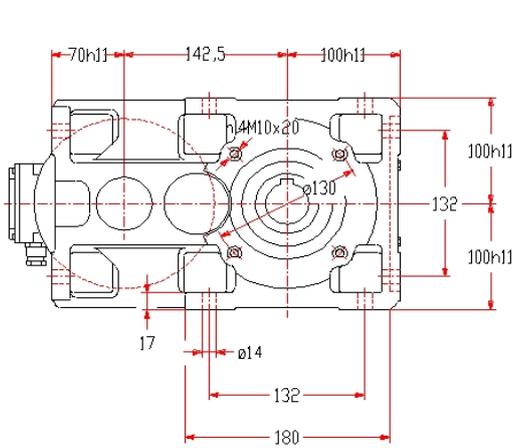
N.A: Not Applied

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

*The results of calculations in this document have no validity in terms of warranty. Computing: a) are theoretical, b) are based on the assumptions for optimal working conditions specified on Rossi catalogues, c) they rely on the truthfulness of given input data for which the customer is the only responsible, d) any omitted data or not taken into account by the customer voids the entire report. All contents, and information in this document are sole property of Rossi S.p.A. It cannot be disclosed for purposes other than the scope for which it has been generated under the agreement between the Customer and an authorized Rossi representative. It cannot be reproduced (in whole or in part) without explicit written permission by Rossi S.p.A. legal representative, and in this case the intellectual property of the document remains solely of Rossi S.p.A.*

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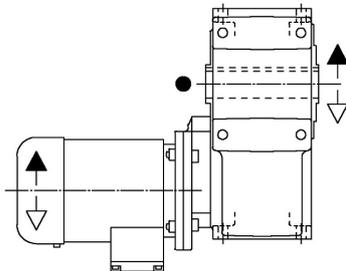
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Helical Gearmotor - catalogue G

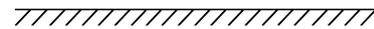
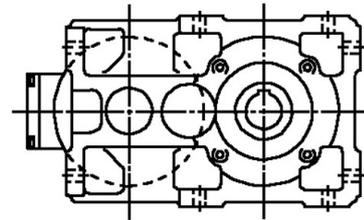
Motor catalogue TX (Frequency 50 Hz)

Design: UP2A

Mounting position: B3



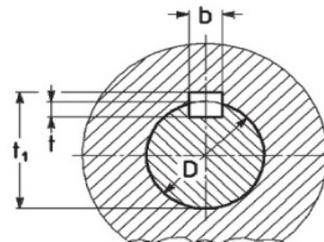
● Groove side



Plugs position

Standard hollow low speed shaft

**SUPPLIED FILLED  
 WITH OIL  
 (FOR LIFE)**



D	b x h x l	b	t	t <sub>1</sub>
ø38 H7	10 x 8 x 90	10	5,5	40,7

- ▽ = filler plug (in view/not in view)
- = level plug (in view/not in view)
- ▨ = drain plug (in view/not in view)

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

