

DE-17-001460/00 pos. 2

Worm Gearmotor - catalogue AS07

Motor catalogue TX (Frequency 50 Hz)

Application given data

N.A.

Designation: MR V 742 UO4E - HB3 90L 6 230.400-50 B5 / 12,5 B3 i=73
Mounting position B3, $n_1 = 900$ [min⁻¹]

Standard product : Yes

Accessories and special designs

Reducer/Gearmotor specifications

Transmission ratio i		
Output speed n_2	[min ⁻¹]	12,5
Input speed n_1	[min ⁻¹]	900
Input power P_1	[kW]	1,10
Output torque M_2	[N m]	575
Service factor f_s		1,00
Efficiency		0,69
Mass of gear reducer (without motor)	[kg]	30,0
Provisional lubricant quantity	[l]	1,6
ISO viscosity grade (T 0-40°C)	[cSt]	320

Nominal Data

Nominal input power P_{N1}	[kW]	1,20
Nominal output power P_{N2}	[kW]	0,80
Nominal output torque M_{N2}	[N m]	591
Maximum output torque M_{2max}	[N m]	800

Verifications

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

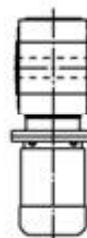
Motor specifications

Type		HB3 90L 6
Coupling dimensions DxExP		24 x 50 - 200
Supply	[V-Hz]	230.400 - 50
Nominal power P_N	[kW]	1,10
Nominal speed n	[min ⁻¹]	930
Mass of motor	[kg]	20
Efficiency		0,81
Cos (phi)		0,720
Moment of inertia J_o	[kgm ²]	0,0071

Nominal Data

Nominal output torque M_N	[N m]	11,30
Starting torque M_S	[N m]	29,40
Maximum torque M_{max}	[N m]	33,90

Top view with M.P. B3



N.A.: Not Applied

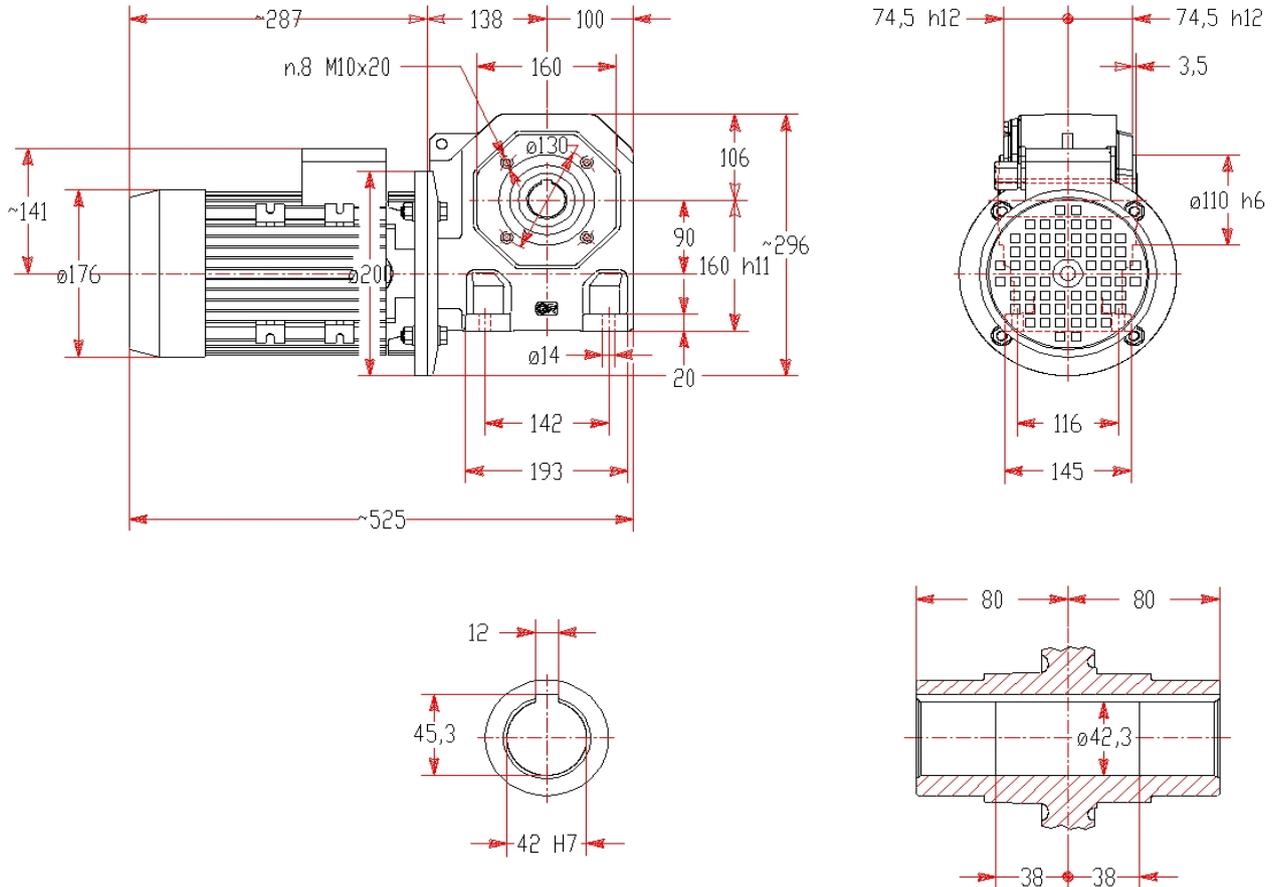
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Main Dimensions [mm] (only for standard gearbox, in case of non-standard design see the drawing on the next page)



- 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:

Worm gear pair Z2/Z1 = 73/1; Axial module = 2,1; Helix angle = $4^{\circ}27'$;
Static efficiency = 0,38; Statically irreversible gear pair; Dynamic reversibility, after running-in, with efficiency > 0,6.

Fastening nuts: M12 UNI 5588

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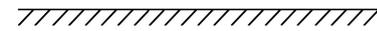
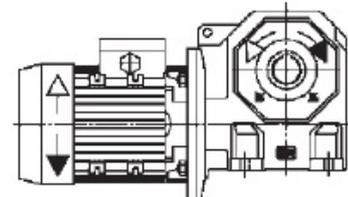
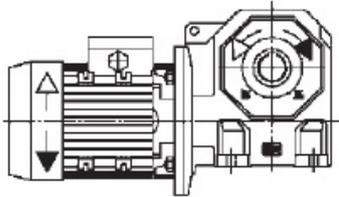
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Design: UO4E

Mounting position: B3

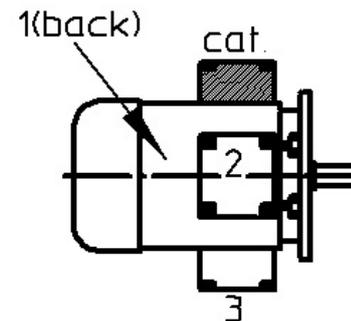


Plugs position (supplied without oil as standard)

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

Senza tappo di livello
 Fornito completo di olio

Without oil level plug
 Supplied filled with oil



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