

A series



Worm gearmotor
A MR V 50 UO3A - 19 x 200 - 40 B3-B8



Configured product

Designation

A MR V 50 UO3A - 19 x 200 - 40 B3-B8

Worm gearmotor A series

Without motor

Mounting position B3-B8

Worm gearmotor - Technical data

Transmission ratio	40
Effective ratio i_{EFF}	40
Output speed n_2	[min ⁻¹] 35
Input speed n_1	[min ⁻¹] 1 400
Nominal efficiency η	0.73
Gearmotor mass (without motor)	[lb] 26.46
IEC	80B5
Coupling dimensions $\varnothing D \times \varnothing P$	[mm] 19 x 200

Lubrication

Gearmotor with IEC flange supplied with oil

ISO viscosity grade	[cSt]	320
synthetic oil - Environment temperature 32 ÷ 104 [° F]		

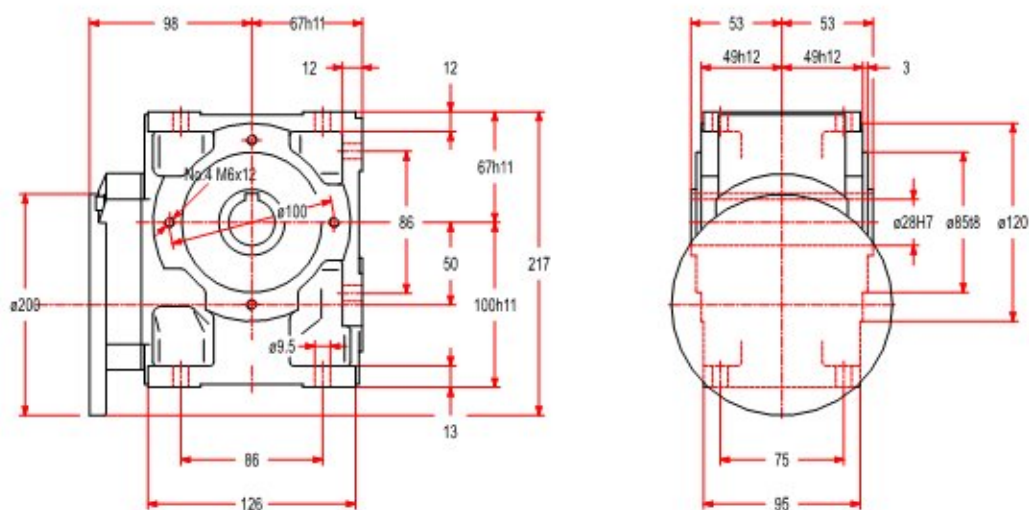
Overall guide to oil-change interval (not according ATEX directive)

Oil temperature[° F]	Oil change interval [h] synthetic oil
≤ 149	18 000
149 ÷ 176	12 500
176 ÷ 203	9 000
203 ÷ 230	6 300

Nominal data

Nominal output power P_{N2}	[hp] 0.58
Nominal thermal power P_{TN} @104°	[hp] 0.91
Nominal output torque M_{N2}	[Lb-in] 1 044.39
Maximum output torque $M_{2 MAX}$	[Lb-in] 1 796.7

Main dimensions [mm] (for accessories, see following pages)



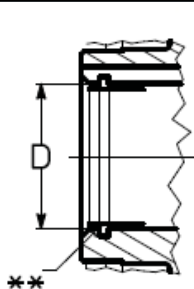
Information

Worm gear pair Z_2 / Z_1 40/1
Axial module m_x 2
Helix angle γ_m $5^\circ 16'$
Static efficiency η_s 0.42
Uncertain static reversibility
Dynamic reversibility, after running-in, with efficiency > 0.6
Fastening bolts (UNI 5737-88): M 8 x 40 (max. length)

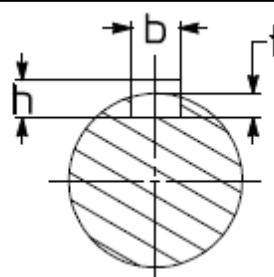
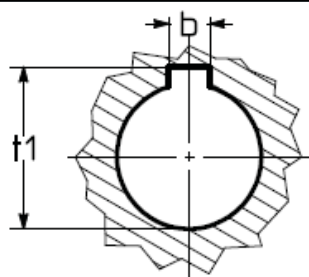
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Hollow low speed shaft



Gear reducer hollow shaft



Machine shaft

Hole D Ø H7	Parallel Key b x h x l*	Keyway		
		b	t	t ₁
1,102	0,315 x 0,276 x 2,48	0,315	0,157	1,228

* Recommended length.