

Engineering data		Mechanical data	
Ratio	16	Radial force for 20'000h	1900 N*
Number of stages	2	Radial force for 30'000h	1700 N*
Rated output torque	76 Nm	Max. radial force	3100 N*
Cycling output torque	90 Nm	Axial force for 20'000h	2000 N
Max output torque	144 Nm	Axial force for 30'000h	1500 N
Emergency output torque	240 Nm	Max. axial force	3800 N
Rated input speed	4000 rpm	Protection	IP54
Max input speed	7000 rpm	Input inertia	0.45 kgcm ²
Efficiency	96 %*	Mass	3.90 kg
Operating temperature	<-25; 90> °C	Tilting moment for 20'000h	99 Nm
Backlash	< 9 arcmin	Tilting moment for 30'000h	89 Nm
Service life	20000 h	Max. bending moment	16 Nm
Running noise	60 dB(A)	Output shaft design	Smooth shaft
Torsional stiffness	16.10 Nm/arcmin		

* at rated speed & torque

* Defined for point of action at ½ output shaft length

Lubrication		Supported motors	
Type	Standard	Motor types	TGN4, TGT4, TGH4
Lubricant	Grease (lifetime lubrication)	Clamping diameter	19 mm
Customs info		Input flange	Motor adaptation - one part
HS Code	84834090	Installation position	Any

