8GP30-040 economy

Technical data

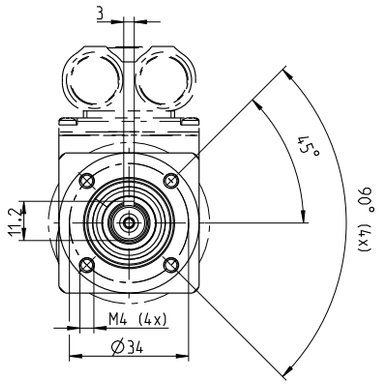
	8GP30-040hh005klmm	8GP30-040hh010klmm	8GP30-040hh025klmm
Gearbox			
Number of gear stages	1	1	2
Gear ratio i	5	10	25
Nominal output torque T_{2N} [Nm]	13	5	13
Max. output torque T_{2max} [Nm]	21	8	21
E-stop torque T_{2stop} [Nm]	26	10	26
Idle torque [Nm] at 20°C and 3000 rpm		0.05	
Max. average drive speed $n_{1N50\%}$ [rpm] at 50% T_{2N} and S1		5000	
Max. average drive speed $n_{1N100\%}$ [rpm] at 100% T_{2N} and S1		5000	
Max. drive speed n_{1max} [rpm]		18000	
Max. backlash J_t [arcmin]	15	15	19
Reduced backlash J_t [arcmin] less than		0	
Torsional rigidity C_{t21} [Nm/arcmin]	1	1	1.1
Tilting rigidity C_{2K} [Nm/arcmin]		0	
Max. breakdown torque M_{2Kmax} [Nm]		0	
Max. radial force Fr_{max} [N] for 30,000 h		160	
Max. radial force Fr_{max} [N] for 20,000 h		200	
Max. axial force Fa_{max} [N] for 30,000 h		160	
Max. axial force Fa_{max} [N] for 20,000 h		200	
Operating noise L_{PA} [dB(A)]		58	
Efficiency at full load η [%]	96	96	94
Min. operating temperature $B_{Tempmin}$ [°C]		-25	
Max. operating temperature $B_{Tempmax}$ [°C]		90	
Mounting orientation		Any	
Protection		IP54	
Weight m [kg]	0.35	0.35	0.45
Moment of inertia J_1 [kgcm^2]	0.032	0.03	0.032

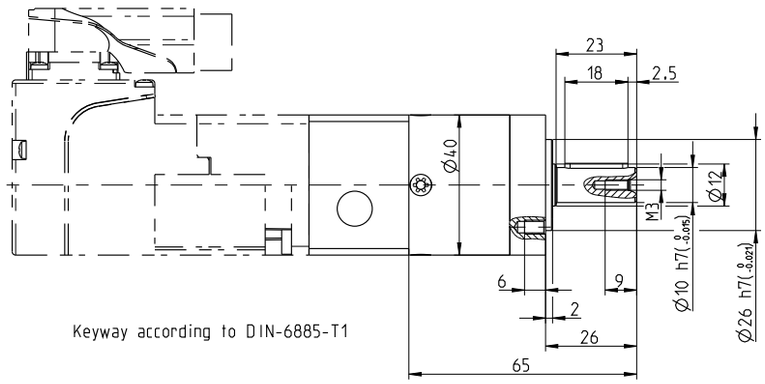
NOTE – Output torque / Max. output torque: This refers to an output shaft speed of n_2 = 100 rpm and application factor K_A = 1 as well as S1 operating mode for electrical machines and T = 30°C, depending on the diameter of the motor shaft. The maximum output torque is only permissible for 30,000 revolutions!
NOTE – E-stop torque: Approved for 1000x

NOTE – Axial / radial force: With reference to the middle of the output shaft; the entries refer to an output shaft speed of n_2 = 100 rpm and application factor K_A = 1 as well as S1 operating mode for electrical machines and T = 30°C

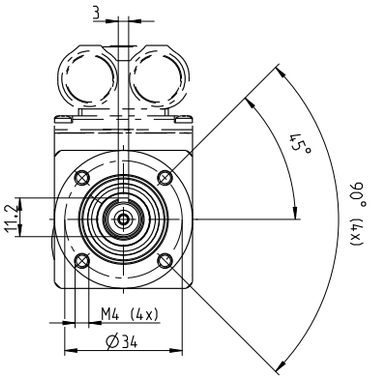
NOTE – Running noise: Noise level at a distance of 1 m; at an output speed of n_1 = 3000 rpm without a load; i = 5
NOTE – Operating temperature: With reference to the middle of the housing surface
NOTE – Weight: Planetary gearbox including universal flange (specific weight upon request)

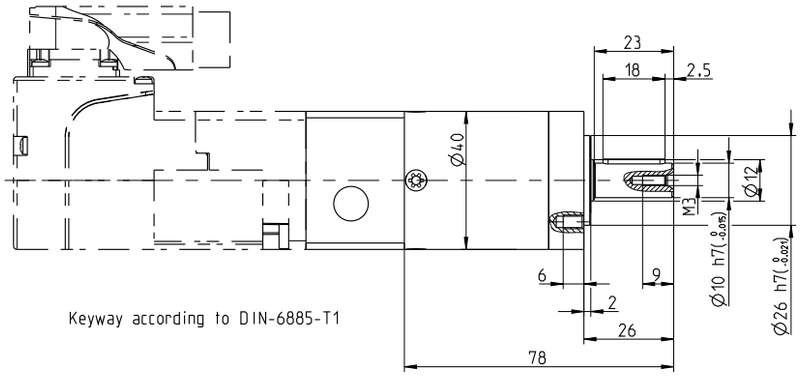
1-stage gear





2-stage gear





Adapter flange - Overview of dimensions

The flange length L completes the diagram for determining the gearbox length.

8GP30-040	8LSA2	8LVA1	8JSA2	80MPD	80MPF
Flange length L [mm]	27.4	28.4	24.4	24.4	24.4
Flange diameter Q [mm]	55	40	60	60	60