

8GP30-040

Technical data



8GP30-040hh005klmm

8GP30-040hh010klmm

8GP30-040hh025klmm

Gearboxes

Number of stages	1		2
Ratio i	5	10	25
Nominal output torque T_{2N} [Nm] ¹⁾	13	5	13
Max. output torque T_{2max} [Nm] ¹⁾	20.8	8	20.8
Emergency stop torque T_{2estop} [Nm] ²⁾	26	10	26
No load running torque at 20°C and 3,000 [min ⁻¹] [Nm]	0.1	0.05	
Max. average input speed at 50% T_{2N} and S1 $n_{1N50\%}$ [min ⁻¹]	5000		
Max. average input speed at 100% T_{2N} and S1 $n_{1N100\%}$ [min ⁻¹]	5000		
Max. input speed n_{1max} [min ⁻¹]	18000		
Max. backlash j_t [arcmin]	<15		<19
Reduced backlash j_i [arcmin]	-		
Torsional rigidity C_{t21} [Nm/arcmin]	1		1.1
Tilting rigidity C_{2K} [Nm/arcmin]	-		
Max. tilting moment M_{2KMax} [Nm]	-		
Max. radial force for 30,000 h Fr_{max} [N] ³⁾	160		
Max. radial force for 20,000 h Fr_{max} [N] ³⁾	200		
Max. axial force for 30,000 h Fa_{max} [N] ³⁾	160		
Max. axial force for 20,000 h Fa_{max} [N] ³⁾	200		
Running noise L_{PA} [dB(A)] ⁴⁾	58		
Efficiency at full load η [%]	96		94
Min. operating temperature $B_{Tempmin}$ [°C] ⁵⁾	-25		
Max. operating temperature $B_{Tempmax}$ [°C] ⁵⁾	90		
Mounting orientation	Any		
Protection class	IP 54		
Weight m [Kg]	0.35		0.45
Moment of inertia J_1 [Kgcm ²]	0.03		

¹⁾ The entries refer to an output shaft speed of $n_2=100\text{min}^{-1}$ and application factor $K_A=1$ as well as S1 operating mode for electrical machines and $T=30^\circ\text{C}$; depending on the respective motor shaft diameter

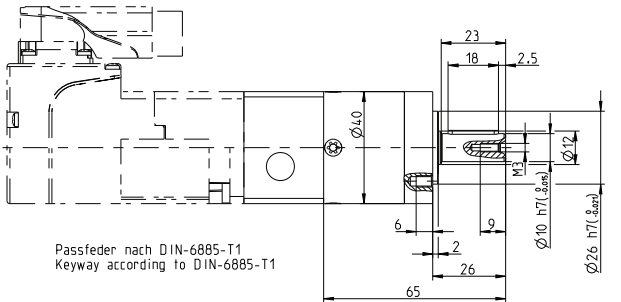
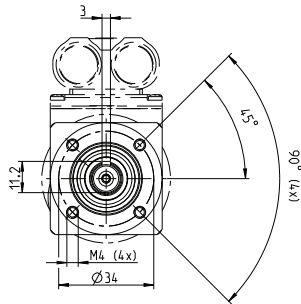
²⁾ Approved for 1000x

³⁾ With reference to the middle of the output shaft; the entries refer to an output shaft speed of $n_2=100\text{min}^{-1}$ and application factor $K_A=1$ as well as S1 operating mode for electrical machines and $T=30^\circ\text{C}$

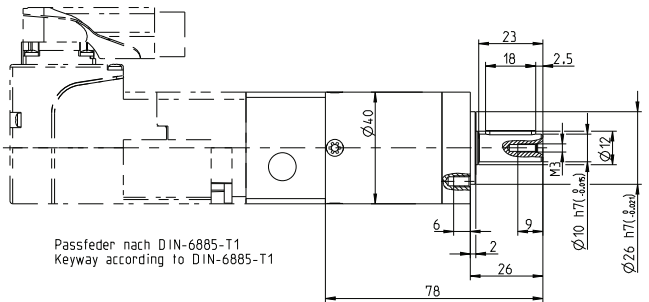
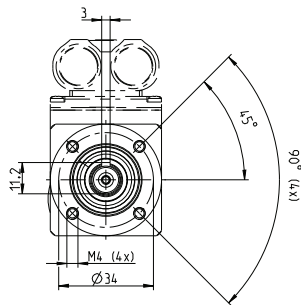
⁴⁾ Noise level at a distance of 1 m; measured at a drive speed of $n_1=3000\text{min}^{-1}$ without a load; $i=5$

⁵⁾ With reference to the middle of the housing surface

1 stage gearboxes



2 stage gearboxes



Alternative output shaft options

Smooth shaft

