8GP30-060

Technical data

	8GP30-060hh005klmm	8GP30-060hh010klmm	8GP30-060hh025klmm
Gearboxes			
Number of stages	1		2
Ratio i	5	10	25
Nominal output torque T_{2N} [Nm][1)]	30	15	30
Max. output torque T_{2max} [Nm][1)]	48	24	48
Emergency stop torque T_{2estop} [Nm][2)]	60	30	60
No load running torque at 20°C and 3,000 [min^{-1}] [Nm]		0.1	
Max. average input speed at 50% T_{2N} and S1 $n_{1N50\%}$ [min^{-1}]		4500	
Max. average input speed at 100% T_{2N} and S1 $n_{1N100\%}$ [min^{-1}]		4500	
Max. input speed n_{1max} [min^{-1}]		13000	
Max. backlash j_t [arcmin]	<12		<15
Reduced backlash j_t [arcmin]		-	
Torsional rigidity C_{t21} [Nm/arcmin]	2.3		2.5
Tilting rigidity C_{2K} [Nm/arcmin]		-	
Max. tilting moment M_{2KMax} [Nm]		-	
Max. radial force for 30,000 h Fr_{max} [N][3)]		340	
Max. radial force for 20,000 h Fr_{max} [N][3)]		400	
Max. axial force for 30,000 h Fa_{max} [N][3)]		450	
Max. axial force for 20,000 h Fa_{max} [N][3)]		500	
Running noise L_{PA} [dB(A)][4)]		58	
Efficiency at full load ŋ [%]	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]	0.9		1.1
Moment of inertia J_1 [$Kgcm^2$]	0.2	0.18	0.19

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

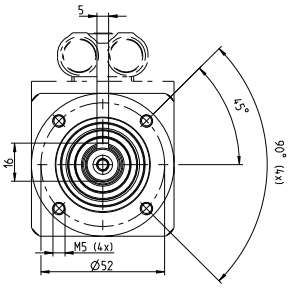
[2)] Approved for 1000x

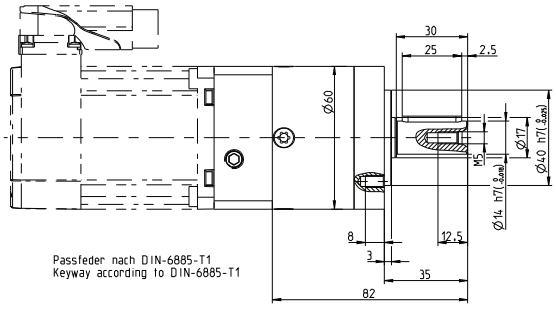
[3)] With reference to the middle of the output shaft; the entries refer to an output shaft speed of n_2=100min^{-1} and application factor K_A=1 as well as S1 operating mode for electrical machines and T=30°C

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

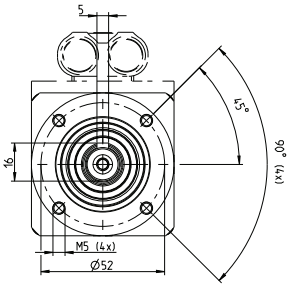
[5)] With reference to the middle of the housing surface

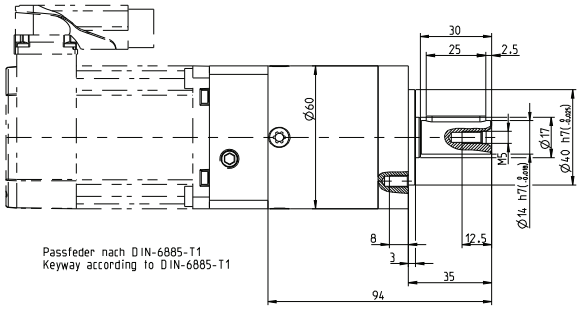
1 stage gearboxes





2 stage gearboxes





Alternative output shaft options

Smooth shaft