

8GF40-064

Technical data



8GF40-064hh003klmm

8GF40-064hh004klmm

8GF40-064hh005klmm

8GF40-064hh008klmm

8GF40-064hh010klmm

8GF40-064hh009klmm

8GF40-064hh012klmm

8GF40-064hh015klmm

8GF40-064hh016klmm

8GF40-064hh020klmm

8GF40-064hh025klmm

8GF40-064hh032klmm

8GF40-064hh040klmm

8GF40-064hh064klmm

8GF40-064hh100klmm

Gearboxes

Number of stages			1			2									
Ratio i	3	4	5	8	10	9	12	15	16	20	25	32	40	64	100
Nominal output torque T _{2N} [Nm] ¹⁾	28	38	40	18	15	44					40	44	40	18	15
Max. output torque T _{2max} [Nm] ¹⁾	45	61	64	29	24	70					64	70	64	29	24
Emergency stop torque T _{2estop} [Nm] ²⁾	56	76	80	36	30	88					80	88	80	36	30
No load running torque at 20°C and 3,000 [min ⁻¹] [Nm]	0.3		0.2			0.1									
Max. average input speed at 50% T _{2N} and S1 n _{1N50%} [min ⁻¹]	3600	4450	4500												
Max. average input speed at 100% T _{2N} and S1 n _{1N100%} [min ⁻¹]	3000	3200	3650	4500		4150	4500								
Max. input speed n _{1max} [min ⁻¹]	13000														
Max. backlash j _{lt} [arcmin]				<12			<15								
Reduced backlash j _{lt} [arcmin]							-								
Torsional rigidity C _{t21} [Nm/arcmin]				18			12								
Tilting rigidity C _{2K} [Nm/arcmin]							-								
Max. tilting moment M _{2KMax} [Nm]							-								
Max. radial force for 30,000 h Fr _{max} [N] ³⁾							500								
Max. radial force for 20,000 h Fr _{max} [N] ³⁾							550								
Max. axial force for 30,000 h Fa _{max} [N] ³⁾							1200								
Max. axial force for 20,000 h Fa _{max} [N] ³⁾							1200								
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]				1.1			1.5								
Moment of inertia J ₁ [Kgcm ²]	0.18	0.12	0.1	0.07		0.15	0.13	0.09	0.1	0.08		0.07			

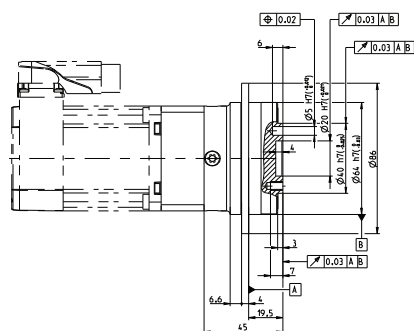
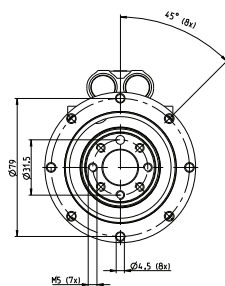
¹⁾ The entries refer to an output shaft speed of $n_2=100\text{min}^{-1}$ and application factor $K_A=1$ as well as S1 operating mode for electrical machines and $T=30^\circ\text{C}$; depending on the respective motor shaft diameter

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



2 stage gearboxes

