

8GA55-064 - Technical data

Model number	8GA55-064h- h003klmm	8GA55-064h- h004klmm	8GA55-064h- h005klmm	8GA55-064h- h007klmm	8GA55-064h- h008klmm	8GA55-064h- h009klmm
Gearbox						
Number of gear stages	1					2
Gear ratio i	3	4	5	7	8	9
Nominal output torque T_{2N} [Nm]	14	19	24	25	18	44
Max. output torque T_{2max} [Nm]	22	30	38	40	29	70
Emergency stop torque T_{2stop} [Nm]	66	86	80			88
Idle torque [Nm] at 20°C and 3000 rpm	0.3	0.25	0.15	0.1	0.4	0.15
Max. average drive speed $n_{1N50\%}$ [rpm] at 50% T_{2N} and S1	4000	4400	4500			4300
Max. average drive speed $n_{1N100\%}$ [rpm] at 100% T_{2N} and S1	3300	3500	3700	4400	4500	3200
Max. drive speed n_{1max} [rpm]	13000					
Max. backlash J_1 [arcmin]	16					18
Torsional rigidity C_{t21} [Nm/arcmin]	11.6	11.9	11.3	10.7	9.8	11.6
Max. radial force F_{rmax} [N] for 30,000 h	500					
Max. radial force F_{rmax} [N] for 20,000 h	550					
Max. axial force F_{amax} [N] for 30,000 h	1200					
Max. axial force F_{amax} [N] for 20,000 h	1200					
Operating noise L_{pA} [dB(A)]	70					
Efficiency at full load η [%]	93			92	91	92
Min. operating temperature $B_{Tempmin}$ [°C]	-25					
Max. operating temperature $B_{Tempmax}$ [°C]	90					
Mounting orientation	Any					
Degree of protection	IP54					
Weight m [kg]	1.4					2.3
Moment of inertia J_1 [kgcm ²]	0.439	0.294	0.265	0.24	0.235	0.359

Note regarding output torque / max. output torque: Refers to output shaft speed $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^\circ\text{C}$ depending on the diameter of the motor shaft. The maximum output torque is only permitted for 30,000 revolutions!

NOTE regarding emergency switch-off torque: 1000 times permitted

Note regarding axial/radial force: Refers to the center of the output shaft (or front face of the flange output shaft). Refers to output shaft speed $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^\circ\text{C}$.

Note regarding running noise: Sound pressure level at 1 m distance at output speed $n_1 = 3000$ rpm without load, $i = 5$

Note regarding operating temperature: Refers to the middle of the housing surface

Note regarding weight: Planetary gearbox including universal flange (specific weight upon request)

8GA55-064 - Technical data

Model number	8GA55-064h-h010klmm	8GA55-064h-h012klmm	8GA55-064h-h015klmm	8GA55-064h-h016klmm	8GA55-064h-h020klmm	8GA55-064h-h025klmm
Gearbox						
Number of gear stages	1		2			
Gear ratio i	10	12	15	16	20	25
Nominal output torque T_{2N} [Nm]	15	44			40	
Max. output torque T_{2max} [Nm]	24	70				64
Emergency stop torque T_{2stop} [Nm]	70	88				80
Idle torque [Nm] at 20°C and 3000 rpm	0.15	0.2	0.4	0.2	0.1	0.35
Max. average drive speed $n_{1N50\%}$ [rpm] at 50% T_{2N} and S1	4500					
Max. average drive speed $n_{1N100\%}$ [rpm] at 100% T_{2N} and S1	4500	3700	4300	4400	4500	
Max. drive speed n_{1max} [rpm]	13000					
Max. backlash J_i [arcmin]	16	18				
Torsional rigidity C_{i21} [Nm/arcmin]	8.9	11.6	11.9			11.3
Max. radial force F_{rmax} [N] for 30,000 h				500		
Max. radial force F_{rmax} [N] for 20,000 h				550		
Max. axial force F_{amax} [N] for 30,000 h				1200		
Max. axial force F_{amax} [N] for 20,000 h				1200		
Operating noise L_{PA} [dB(A)]	70					
Efficiency at full load η [%]	90	92		91	90	89
Min. operating temperature $B_{Tempmin}$ [°C]	-25					
Max. operating temperature $B_{Tempmax}$ [°C]	90					
Mounting orientation	Any					
Degree of protection	IP54					
Weight m [kg]	1.4	2.3				
Moment of inertia J_1 [kgcm ²]	0.228	0.352	0.235	0.244	0.233	0.232

Note regarding output torque / max. output torque: Refers to output shaft speed $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^\circ\text{C}$ depending on the diameter of the motor shaft. The maximum output torque is only permitted for 30,000 revolutions!

NOTE regarding emergency switch-off torque: 1000 times permitted

Note regarding axial/radial force: Refers to the center of the output shaft (or front face of the flange output shaft). Refers to output shaft speed $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^\circ\text{C}$.

Note regarding running noise: Sound pressure level at 1 m distance at output speed $n_1 = 3000$ rpm without load, $i = 5$

Note regarding operating temperature: Refers to the middle of the housing surface

Note regarding weight: Planetary gearbox including universal flange (specific weight upon request)

Model number	8GA55-064hh032klmm	8GA55-064hh040klmm	8GA55-064hh064klmm	8GA55-064hh100klmm
Gearbox				
Number of gear stages	2			
Gear ratio i	32	40	64	100
Nominal output torque T_{2N} [Nm]	44	40	18	15
Max. output torque T_{2max} [Nm]	70	64	29	24
Emergency stop torque T_{2stop} [Nm]	88	80		
Idle torque [Nm] at 20°C and 3000 rpm	0.1	0.35		
Max. average drive speed $n_{1N50\%}$ [rpm] at 50% T_{2N} and S1	4500			
Max. average drive speed $n_{1N100\%}$ [rpm] at 100% T_{2N} and S1	4500			
Max. drive speed n_{1max} [rpm]	13000			
Max. backlash J_i [arcmin]	18			
Torsional rigidity C_{i21} [Nm/arcmin]	10.5	10.1	9.6	9.1
Max. radial force F_{rmax} [N] for 30,000 h	500			
Max. radial force F_{rmax} [N] for 20,000 h	550			
Max. axial force F_{amax} [N] for 30,000 h	1200			
Max. axial force F_{amax} [N] for 20,000 h	1200			
Operating noise L_{PA} [dB(A)]	70			
Efficiency at full load η [%]	89	87	75	64
Min. operating temperature $B_{Tempmin}$ [°C]	-25			
Max. operating temperature $B_{Tempmax}$ [°C]	90			
Mounting orientation	Any			
Degree of protection	IP54			
Weight m [kg]	2.3			
Moment of inertia J_1 [kgcm ²]	0.223		0.222	0.22

Note regarding output torque / max. output torque: Refers to output shaft speed $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^\circ\text{C}$ depending on the diameter of the motor shaft. The maximum output torque is only permitted for 30,000 revolutions!

NOTE regarding emergency switch-off torque: 1000 times permitted

Note regarding axial/radial force: Refers to the center of the output shaft (or front face of the flange output shaft). Refers to output shaft speed $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^\circ\text{C}$.

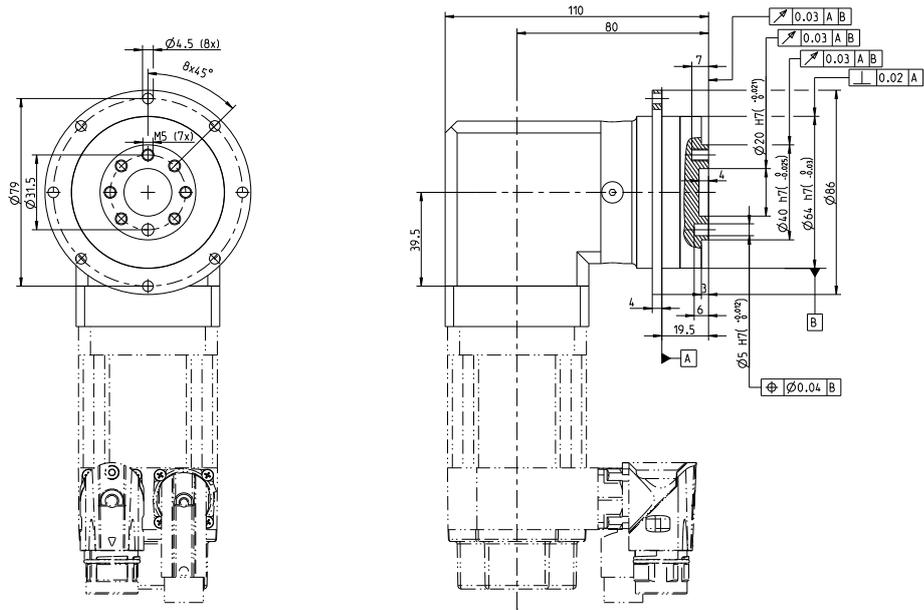
Note regarding running noise: Sound pressure level at 1 m distance at output speed $n_1 = 3000$ rpm without load, $i = 5$

Note regarding operating temperature: Refers to the middle of the housing surface

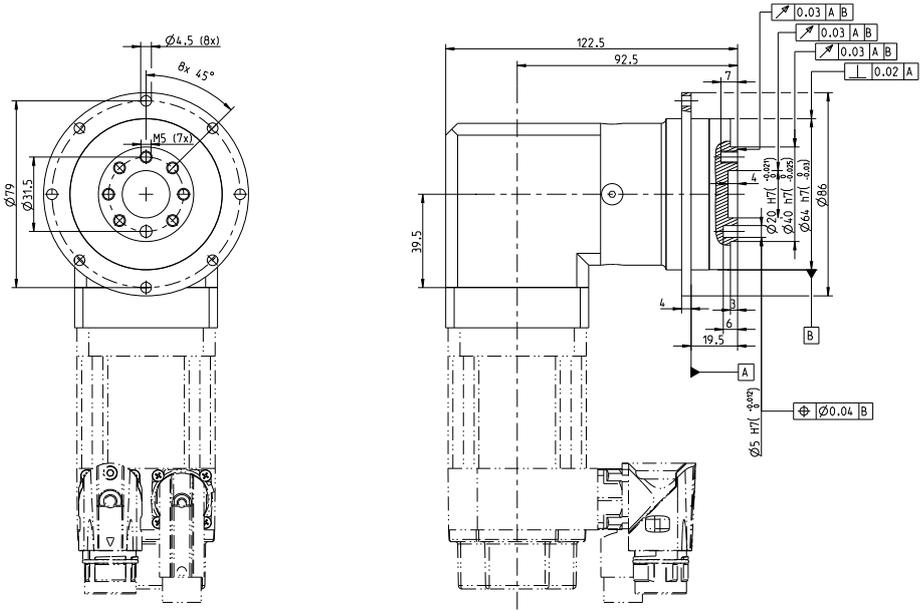
Note regarding weight: Planetary gearbox including universal flange (specific weight upon request)

4 8GA55-064 - Dimensions

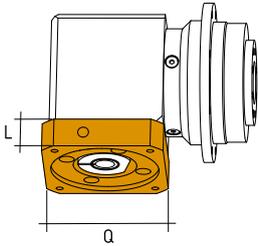
1-stage gearbox



2-stage gearbox



Adapter flange 8GA55-064



The gearbox is fastened to the motor's output side using adapter plates tailored precisely to the respective motor.

Dimensions	8LSAA	8LSA2	8LSA3	8LVA2	8JSA2	8JSA3	80MPD	80MPF	80MPH
Flange length L [mm]	23	17	23	23	16	23	16	16	25
Flange diameter Q [mm]	70	60	90	60	60	70	60	60	80