8GP55-060

Technical data



3GP55-060hh003klmm	3GP55-060hh004klmm	3GP55-060hh005klmm	3GP55-060hh008klmm	3GP55-060hh010klmm	3GP55-060hh009klmm	3GP55-060hh012klmm	3GP55-060hh015klmm	3GP55-060hh016klmm	3GP55-060hh020klmm	3GP55-060hh025klmm	3GP55-060hh032klmm	3GP55-060hh040klmm	3GP55-060hh064klmm	3GP55-060hh100klmm
3GP5														

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]	4400	4500														
Max. average input speed at 100% $\rm T_{2N}$ and S1 $\rm n_{1N100\%}$ [min $^{\text{-}1}$]	3400	3600 4100 4500														
Max. input speed n _{1max} [min ⁻¹]								13000								
Max. backlash j _t [arcmin]			<12			<15										
Reduced backlash j _t [arcmin]								-								
Torsional rigidity C ₁₂₁ [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⁾		3200														
Max. radial force for 20,000 h Fr _{max} [N] ³⁾								3200								
Max. axial force for 30,000 h Fa _{max} [N] ³⁾								3900								
Max. axial force for 20,000 h Fa _{max} [N] ³⁾								4400								
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 65								
Weight m [Kg]			1.4							1.6						
Moment of inertia J ₁ [Kgcm ²]	0.15	0.1	0.08	0	.07	0.1	3	0.08	0.09	0.	80		0.	.06		

 $^{^{1)}}$ 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 $^{\circ}$ C; depending on the respective motor shaft diameter

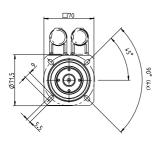
²⁾ Approved for 1000x

³⁾ With reference to the middle of the output shaft; the entries refer to an output shaft speed of n₂=100min⁻¹ and application factor K_A=1 as well as S1 operating mode for electrical machines and T=30°C

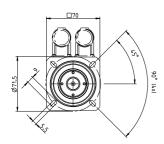
 $^{^{4)}}$ Noise level at a distance of 1 m; measured at a drive speed of n_1 =3000min $^{-1}$ without a load; i=5

⁵⁾ With reference to the middle of the housing surface

1 stage gearboxes



2 stage gearboxes

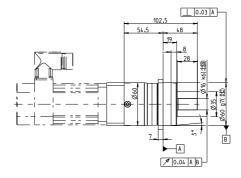


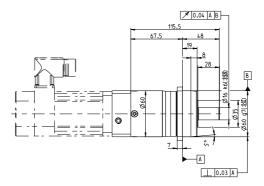
Alternative output shaft options

Shaft keys according to DIN 6885 form A









Spline shaft according to DIN 5480 - W 16 x 0.8 x 30 x 18 x 7 m

