8GA40-060

Technical data



8GA40-060hh003klmm	8GA40-060hh004klmm	8GA40-060hh005klmm	8GA40-060hh008klmm	8GA40-060hh010klmm	8GA40-060hh009klmm	8GA40-060hh012klmm	8GA40-060hh015klmm	8GA40-060hh016klmm	8GA40-060hh020klmm	8GA40-060hh025klmm	8GA40-060hh032klmm	8GA40-060hh040klmm	8GA40-060hh064klmm	8GA40-060hh100klmm
3GA4	8GA4													

-	Number of stages 1					2									
3	4	5	8	10	9	12	15	16	20	25	32	40	64	100	
14	19	24	18	15			44			40	44	40	18	15	
22	30	38	29	24	70				64	70	64	29	24		
28	38	48	36	30			88			80	88	80	36	30	
0.2				0.1											
							4500								
44	50	4400	45	500	3850					4500					
							13000								
		<18							<	:21					
							-								
		1.5								2.5					
							-								
							-								
							340								
							400								
							450								
							500								
							70								
		94							(92					
							-25								
							90								
							Any								
							IP 54								
		1.7													
	28	28 38 0.2 4450	28 38 48 0.2 4400 4400 418 1.5	28 38 48 36 0.2 4400 45 450 4400 45 1.5 1.5	28 38 48 36 30 0.2 4450 4400 4500 <18 1.5	28 38 48 36 30 0.2 4450 4400 4500 3850 <18	28 38 48 36 30 0.2 4400 4500 3850 1.5 1.7	28 38 48 36 30 88 0.2 4500 4450 4400 4500 3850	28 38 48 36 30 88 0.2 4500 4450 4400 4500 3850 - 13000 <18	28	28 38 48 36 30 88 80 4500 4500 4500 4500 4500 4450 4400 4500 3850 4500 418 - - - 1.5 2.5 - - - - 340 450 - 450 450 - 500 70 - 94 92 -25 90 Any IP 54 1.7 1.9	28	28 38 48 36 30 88 80 0.1	28 38 48 36 30 88 80 88 80 36 0.2 4500 4450 4500 4450 4500 4450 4500 4450 4500	

¹⁾ 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; depending on the respective motor shaft diameter

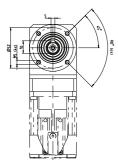
²⁾ Approved for 1000x

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

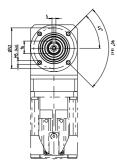
 $^{^{4)}}$ Noise level at a distance of 1 m; measured at a drive speed of n_1 =3000min $^{-1}$ without a load; i=5

⁵⁾ With reference to the middle of the housing surface

1 stage gearboxes



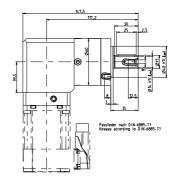
2 stage gearboxes

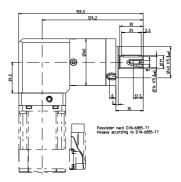


Alternative output shaft options

Smooth shaft







8GA40-060

Technical data

-	(5)
/	100

8GA40-060hh060klmm	8GA40-060hh080klmm	8GA40-060hh120klmm	8GA40-060hh160klmm	8GA40-060hh200klmm	8GA40-060hh256klmm	8GA40-060hh320klmm	8GA40-060hh512klmm
--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------

Gearboxes								
Number of stages				3	3			
Ratio i	60	80	120	160	200	256	320	512
Nominal output torque T _{2N} [Nm] ¹⁾		4	44		40	44	40	18
Max. output torque T _{2max} [Nm] ¹⁾		-	70		64	70	64	29
Emergency stop torque T _{2estop} [Nm] ²⁾		;	88		80	88	80	36
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]				45	00			
Max. average input speed at 100% T _{2N} and S1 n _{1N100%} [min ⁻¹]				45	00			
Max. input speed n _{1max} [min ⁻¹]				130	000			
Max. backlash j _t [arcmin]				<2	24			
Reduced backlash j _t [arcmin]					-			
Torsional rigidity C _{t21} [Nm/arcmin]				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⁾				34	10			
Max. radial force for 20,000 h Fr _{max} [N] ³⁾				40	00			
Max. axial force for 30,000 h Fa _{max} [N] ³⁾				45	50			
Max. axial force for 20,000 h Fa _{max} [N] ³⁾				50	00			
Running noise L _{PA} [dB(A)] ⁴⁾				7	0			
Efficiency at full load ŋ [%]				8	8			
Min. operating temperature B _{Tempmin} [°C] ⁵⁾				-2	25			
Max. operating temperature B _{Tempmax} [°C] ⁵⁾				9	0			
Mounting orientation				Aı	ny			
Protection class				IP				
Weight m [Kg]				2.				
Moment of inertia J ₁ [Kgcm ²]	0.1	19			0.	18		

¹⁾ 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; depending on the respective motor shaft diameter

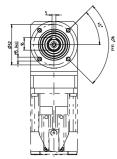
²⁾ Approved for 1000x

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

3 stage gearboxes



Alternative output shaft options

Smooth shaft



