8GA60-142

Technical data

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8GA60-142hh016klmm

8GA60-142hh025klmm

8GA60-142hh032klmm

8GA60-142hh040klmm

8GA60-142hh064klmm

8GA60-142hh100klmm

| Gearboxes | | | | | | | | |
|--|-------|------|------|-------|------|------|------|--|
| Number of stages | | | | 2 | | | | |
| Ratio i | 16 | 20 | 25 | 32 | 40 | 64 | 100 | |
| Nominal output torque T _{2N} [Nm] ¹⁾ | 640 | 800 | 700 | 360 | 450 | | 305 | |
| Max. output torque T _{2max} [Nm] ¹⁾ | 1024 | 1280 | 1120 | 576 | 720 | | 488 | |
| Emergency stop torque T _{2estop} [Nm] ²⁾ | 1280 | 1600 | 1400 | 720 | 900 | | 610 | |
| No load running torque at 20°C and 3,000 [min ⁻¹] [Nm] | 2. | 3 | 2.1 | 1.9 | | 1.8 | | |
| Max. average input speed at 50% T _{2N} and S1 n _{1N50%} [min ⁻¹] | 1550 | 1600 | 1750 | 2150 | 2200 | 2400 | 2650 | |
| Max. average input speed at 100% T _{2N} and S1 n _{1N100%} [min ⁻¹] | 110 | 00 | 1350 | 1800 | 1850 | 2150 | 2450 | |
| Max. input speed n _{1max} [min ⁻¹] | 9500 | | | | | | | |
| Max. backlash j _t [arcmin] | <7 | | | | | | | |
| Reduced backlash j _t [arcmin] | | | | - | | | | |
| Torsional rigidity C ₁₂₁ [Nm/arcmin] | 58 | | | | | | | |
| Tilting rigidity C _{2K} [Nm/arcmin] | | | | - | | | | |
| Max. tilting moment M _{2KMax} [Nm] | | | | - | | | | |
| Max. radial force for 30,000 h Fr _{max} [N] ³⁾ | 11400 | | | | | | | |
| Max. radial force for 20,000 h Fr _{max} [N] ³⁾ | 12500 | | | | | | | |
| Max. axial force for 30,000 h Fa _{max} [N] ³⁾ | 13200 | | | | | | | |
| Max. axial force for 20,000 h Fa _{max} [N] ³⁾ | 15000 | | | | | | | |
| Running noise L _{PA} [dB(A)] ⁴⁾ | 70 | | | | | | | |
| Efficiency at full load η [%] | 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] | | | ı | 21.5 | ı | | | |
| Moment of inertia J ₁ [Kgcm ²] | 6.08 | 6.02 | 5.5 | 5.03 | 5.01 | 5 | 4.89 | |

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

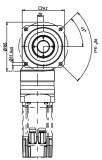
²⁾ Approved for 1000:

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

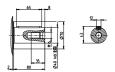
⁵⁾ With reference to the middle of the housing surface

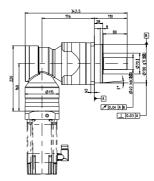
2 stage gearboxes



Alternative output shaft options

Shaft keys according to DIN 6885 form A





Spline shaft according to DIN 5480 - W 40 x 1.25 x 30 x 30 x 7 m $\,$

