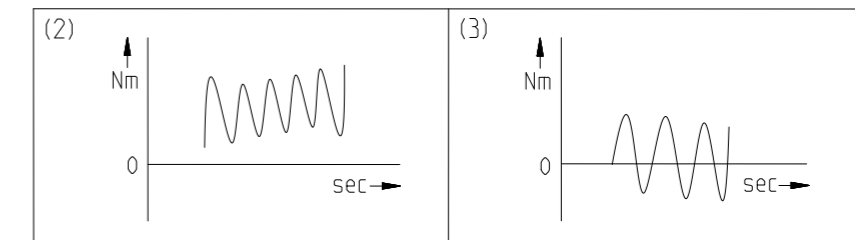


| Technical data | Character | Unit | |
|---|---------------------|------|-------------------------------|
| Planetary gearbox - gearing type | - | - | Straight teeth |
| Number of stages | Z | - | 1-stage |
| Output shaft bearing | - | - | Deep groove ball bearing |
| Seal | - | - | 2RS bearing seal |
| Service Life (L10h) | t_L | h | 30.000 |
| Max. operating temperature | T_{min} / T_{max} | °C | -25 / +90 |
| Protection class | - | - | IP 54 |
| Lubrication (lifetime lubrication) | - | - | Standard lubrication (grease) |
| Installation position | - | - | Any |
| Max. bending moment based on the gearbox input flange (for motor weight) (1) | M_b | Nm | 3 |
| Motor flange precision | - | - | DIN 42955-N |
| Required motor shaft tolerance | - | - | j6; k6 |
| Min. permissible motor shaft length | $L_{20 min}$ | mm | 11 |
| Clamp screw tightening torque | $T_{A,K}$ | Nm | 2 |
| Reference operating mode | - | - | S1 |
| Reference operating factor | K_A | - | 1 |
| Reference speed | n_2 | rpm | 100 |
| Reference ambient temperature | T_{Amb} | °C | 20 |
| Radial force for output bearing based on shaft center after L10h=20,000h with Fa=0N | $F_r 20.000h$ | N | 200 |
| Axial force for output bearing based on gearbox axis after L10h=20,000h with Fr=0N | $F_a 20.000h$ | N | 200 |
| Radial force for output bearing based on shaft center after L10h=30,000h with Fa=0N | $F_r 30.000h$ | N | 160 |
| Axial force for output bearing based on gearbox axis after L10h=30,000h with Fr=0N | $F_a 30.000h$ | N | 160 |
| Static radial force based on shaft center and T2=0Nm | $F_r Stat$ | N | 200 |
| Static axial force based on gearbox axis and T2=0Nm | $F_a Stat$ | N | 240 |

| Ratio-dependent data | Character | Unit | |
|--|-----------------|-------------------|-------|
| Ratio | i | - | 5 |
| Nominal output torque No alternating torque (2) | T_{2N} | Nm | 14 |
| Nominal output torque Alternating torque permitted for 10,000,000 load changes (3) | $T_{2N 10Mio}$ | Nm | 9 |
| Nominal output torque Alternating torque permitted for 100,000,000 load changes (3) | $T_{2N 100Mio}$ | Nm | 7 |
| Max. output torque for 30,000 output shaft rotations | T_{2max} | Nm | 22 |
| Emergency stop torque permitted 1000 times | T_{2stop} | Nm | 36 |
| Idle torque for $n_1=3,000$ rpm and 20 °C gearbox temperature | T_0 | Nm | 0,05 |
| Average thermal input speed at 50% T2N, S1, and T_Amb Operating temperature may not be exceeded! | $n_{1N 50\%}$ | rpm | 5000 |
| Average thermal input speed at 100% T2N, S1, and T_Amb Operating temperature may not be exceeded! | $n_{1N 100\%}$ | rpm | 5000 |
| Max. mechanical input speed Operating temperature may not be exceeded! | $n_{1 Limit}$ | rpm | 18000 |
| Torsional backlash based on output shaft | j_t | arcmin | < 15 |
| Torsional stiffness based on output shaft | c_g | Nm/arcmin | 1 |
| Efficiency at T2N, gearbox temperature 70 °C and $n_1=1,000$ rpm | η | % | 98 |
| Running noise at $n_1=3,000$ rpm without load at a distance of 1m | Q_g | dB(A) | 58 |
| Gearbox weight | m_G | kg | 0,3 |
| Mass moment of inertia based on clamping system diameter input | J | kgcm ² | 0,019 |

$$(1) \text{ Max. motor weight* in kg} = \frac{0,2 * M_b}{\text{motor length in m}}$$

- * with symmetrically distributed motor weight
- * with horizontal and stationary mounting



Subject to modifications!



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Sheet 2/2

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