

| Engineering data        |                 | Mechanical data            |                        |
|-------------------------|-----------------|----------------------------|------------------------|
| Ratio                   | 320             | Radial force for 20'000h   | 2050 N*                |
| Number of stages        | 3               | Radial force for 30'000h   | 1700 N*                |
| Rated output torque     | 93 Nm           | Max. radial force          | 2500 N*                |
| Cycling output torque   | 110 Nm          | Axial force for 20'000h    | 2500 N                 |
| Max output torque       | 176 Nm          | Axial force for 30'000h    | 2000 N                 |
| Emergency output torque | 220 Nm          | Max. axial force           | 3800 N                 |
| Rated input speed       | 4000 rpm        | Protection                 | IP54                   |
| Max input speed         | 7000 rpm        | Input inertia              | 0.37 kgcm <sup>2</sup> |
| Efficiency              | 80 %*           | Mass                       | 3.98 kg                |
| Operating temperature   | <-25; 90> °C    | Tilting moment for 20'000h | 101 Nm                 |
| Backlash                | < 11 arcmin     | Tilting moment for 30'000h | 84 Nm                  |
| Service life            | 20000 h         | Max. bending moment        | 16 Nm                  |
| Running noise           | 60 dB(A)        | Output shaft design        | Shaft key              |
| Torsional stiffness     | 11.40 Nm/arcmin |                            |                        |

\* at rated speed & torque

\* Defined for point of action at ½ output shaft length

| Lubrication  |                               | Supported motors      |                             |
|--------------|-------------------------------|-----------------------|-----------------------------|
| Type         | Standard                      | Motor types           | TGN4, TGT4, TGH4            |
| Lubricant    | Grease (lifetime lubrication) | Clamping diameter     | 19 mm                       |
| Customs info |                               | Input flange          | Motor adaptation - one part |
| HS Code      | 84834090                      | Installation position | Any                         |

