



Technical Specifications:

- planetary gear: straight-toothed
- average lifetime: 20.000h
- output shaft bearing: taper roller bearing
- max. axial load: 4700N by n2=100 1/min /Fr=0 /Lh=20.000h (e)
- max. radial load: 3300N by n2=100 1/min /Fa=0 /Lh=20.000h (c)
- max. axial load: 4100N by n2=100 1/min /Fr=0 /Lh=30.000h (e)
- max. radial load: 3000N by n2=100 1/min /Fa=0 /Lh=30.000h
- ref. on shaft center / T=30°C
- backlash: 1-stage<=3 arcmin / 2-stage<=5 arcmin
- ref. on output shaft
- max. input speed: n1=14000 1/min^(a) (a)
- recommended input speed: n1<=5000 1/min^(a)
- lubrication: life lubrication
- operating temperature: -25°C...+100°C (b)
- efficiency: by rated load (ratio dependently)
- ca. 98% 1.stage, ca.95% 2.stage
- nominal output torque: by n2=100 1/min
- sealing:
 - input: radial shaft seal ring
 - output: radial shaft seal ring
- motor mounting: M2 (stocked driving pinion)
- torque of clamping screw: 4.5Nm
- method of working: S1
- operation ratio: cB=1
- protective system: IP 65
- max. motor weight static: 10kg

Material:
 output shaft : GGG 60
 housing: steel - black
 input flange: Aluminium

| | 1.stage | | 2.stage | |
|----|---------|----|---------|----|
| L1 | 124 | | 147.5 | |
| L2 | 62.5 | | 86 | |
| | i | Mn | i | Mn |
| | 3 | 30 | 12 | 77 |
| | 4 | 40 | 15 | 68 |
| | 5 | 50 | 16 | 77 |
| | 8 | 37 | 20 | 77 |
| | 10 | 27 | 25 | 68 |
| | | | 32 | 77 |
| | | | 40 | 68 |
| | | | 64 | 37 |
| | | | 100 | 27 |

Mn = nominal output torque at output shaft [Nm]

(f) emergency stop torque: 2 times

(a) Operating temperature may not be exceeded!

Modification reserve!
 Consider motor fitting instructions!

| | | | | | |
|---------------------|------------------|------------|-----------------|----------------------|----------|
| | | scale: 1:1 | | DIN A3 | ISO |
| h | | date | name | | |
| g | | Auth. | 02.08.01 | Ille | |
| f | text added | 19.09.05 | Si/Ci | Aud. | 02.08.01 |
| e | value adjustment | 19.09.05 | Si/Ci | Rel. | 02.08.01 |
| d | was $\phi 40$ | 23.08.05 | Si/BB | | |
| c | text added | 29.04.05 | Si/DH | Neugart GmbH | |
| b | text added | 07.07.04 | Ci | Kettenstrasse 16 | |
| a | text added | 11.12.03 | BB | D - 77971 Kippenheim | |
| stat. | change | date | nam. | (Urspr.) | |
| Data sheet PLS 70 | | | standard flange | | |
| Draw.-No.: MB - 910 | | | | Blatt | |
| Part.-No.: | | | | Bl. | |
| date | 03.03.99 | name | Cihlar | | |