Product datasheet

Specification





gear box straight teeth GBX - Ø 80 mm - reduction 10:1 <7 arc.min - 38 N.m

GBX080010K

Main

| Range Compatibility | Lexium 62 ILM | | | | | |
|---------------------------|------------------------------|--|--|--|--|--|
| | Lexium 52 | | | | | |
| | Lexium 32 | | | | | |
| | Lexium 28 | | | | | |
| Product Or Component Type | Planetary gearbox | | | | | |
| Gear Box Type | Straight teeth | | | | | |
| Device Short Name | GBX | | | | | |
| Product Compatibility | BMH (70 mm, 3 motor stacks) | | | | | |
| | BSH (70 mm, 3 motor stacks) | | | | | |
| | BCH2 (80 mm, 1 motor stacks) | | | | | |
| | SH3 | | | | | |
| | MH3 | | | | | |
| | ILM | | | | | |
| Gearbox External Diameter | 80 mm | | | | | |
| Reduction Ratio | 10:1 | | | | | |

Complementary

| Maximum Torsional Backlash | 7 arc.min | | | | | |
|----------------------------|--|--|--|--|--|--|
| Torsional Rigidity | 6 N.m/arcmin | | | | | |
| Housing Colour | Black | | | | | |
| Housing Material | Black anodized aluminium | | | | | |
| Shaft Material | C 45 | | | | | |
| Additional Information | Lubricated for life | | | | | |
| Service Life In Hours | 30000 h at 100 rpm at 30 °C | | | | | |
| Mounting Position | Any position | | | | | |
| Efficiency | 96 % | | | | | |
| Maximum Radial Force Fr | 650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$ | | | | | |
| Maximum Axial Force Fa | 900 N at 100 rpm, during 30000 hour at 30°C | | | | | |
| Moment Of Inertia | 0.39 kg.cm ² | | | | | |
| Continuous Output Torque | 38 N.m at 100 rpm at 30 °C | | | | | |
| Maximum Output Torque | 61 N.m at 100 rpm at 30 °C | | | | | |
| Net Weight | 2.1 kg | | | | | |
| Input Diameter | 19.0 mm | | | | | |

Environment



| Noise Level | 60 dB at 1 m, no-load | | | | |
|--------------------------------------|-----------------------|--|--|--|--|
| Ip Degree Of Protection | Shaft output: IP54 | | | | |
| Ambient Temperature For Operation | -2590 °C | | | | |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|----------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 10.8 cm |
| Package 1 Width | 10.8 cm |
| Package 1 Length | 16.6 cm |
| Package 1 Weight | 1.946 kg |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 4 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 8.294 kg |



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Transparency RoHS/REACh

Well-being performance



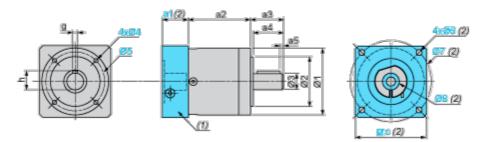
Certifications & Standards

| Reach Regulation | REACh Declaration | | | | | |
|--------------------------|---|--|--|--|--|--|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | | | | |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information | | | | | |
| Environmental Disclosure | Product Environmental Profile | | | | | |
| Circularity Profile | No need of specific recycling operations | | | | | |

GBX080010K

Dimensions Drawings

Dimensions with Servo Motor Adaptation Kit



- (1) GBK adaptation kit
- (2) GBK adaptation kit related dimensions a1, c, Ø6, Ø7, Ø8 depend on the gearbox and servo motor combination
- Ø8 shaft end adaptor in case motor shaft diameter is smaller than gearbox input coupling diameter

Values in mm

| a2 | а3 | a4 | a5 | h | g | Ø1 | Ø2 | Ø3 | Ø4 | Ø5 |
|----|----|----|----|------|---|----|-------|-------|---------|----|
| 72 | 40 | 36 | 4 | 22.5 | 6 | 80 | 60 h7 | 20 h7 | M6 x 10 | 70 |

Values in in.

| values | alues III III. | | | | | | | | | |
|--------|----------------|------|------|-----|------|------|---------|---------|-----------|------|
| a2 | а3 | a4 | a5 | h | g | Ø1 | Ø2 | Ø3 | Ø4 | Ø5 |
| 2.83 | 1.57 | 1.42 | 0.16 | 089 | 0.24 | 3.15 | 2.36 h7 | 0.79 h7 | M6 x 0.39 | 2.76 |