# Product data sheet

Specifications

## gearbox straight teeth GBX, Lexium, 60mm, reduction 20:1 , 12arc.min, 44N.m

GBX060020K

**Product availability: Non-Stock - Not normally stocked in distribution facility**

**Price*: 539.12 USD**

## Main

| | |
|---|---|
| **Range Compatibility** | Lexium 62 ILM<br>Lexium 52<br>Lexium ILS<br>Lexium 62<br>Lexium ILA<br>Lexium 28<br>Lexium SD3<br>Lexium ILE<br>Lexium 32 |
| **Product Or Component Type** | Planetary gearbox |
| **Gear Box Type** | Straight teeth |
| **Device Short Name** | GBX |
| **Product Compatibility** | BSH 2.17 in (55 mm), 1<br>BSH 2.17 in (55 mm), 2<br>BRS3<br>ILE 2.60 in (66 mm), 1<br>ILE 2.60 in (66 mm), 2<br>ILA 2.24 in (57 mm), 1<br>ILA 2.24 in (57 mm), 2<br>ILS 2.24 in (57 mm), 1<br>ILS 2.24 in (57 mm), 2<br>ILS 2.24 in (57 mm), 3<br>BCH2 2.36 in (60 mm), 1<br>SH3<br>MH3<br>ILM |
| **Gearbox External Diameter** | 2.36 in (60 mm) |
| **Reduction Ratio** | 20:1 |

## Complementary

| | |
|---|---|
| **Maximum Torsional Backlash** | 12 arc.min |
| **Torsional Rigidity** | 2.5 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 100 rpm 86 °F (30 °C) |
| **Mounting Position** | Any position |
| **Efficiency** | 94 % |
| **Maximum Radial Force Fr** | 340 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Maximum Axial Force Fa** | 450 N 100 rpm, during 30000 hour at 30°C |
| **Moment Of Inertia** | 0.075 kg.cm² |
| **Continuous Output Torque** | 389.43 lbf.in (44 N.m) 100 rpm 86 °F (30 °C) |
| **Maximum Output Torque** | 619.55 lbf.in (70 N.m) 100 rpm 86 °F (30 °C) |
| **Net Weight** | 2.43 lb(US) (1.1 kg) |
| **Input Diameter** | 0.55 in (14.0 mm) |

## Environment

| | |
|---|---|
| **Noise Level** | 58 dB 1 m, no-load |
| **Ip Degree Of Protection** | Shaft output IP54 |
| **Ambient Temperature For Operation** | -13…194 °F (-25…90 °C) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PC5318283 |
| **Discount Schedule** | PC53 |
| **Gtin** | 3606480388262 |
| **Returnability** | No |
| **Country Of Origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 2.76 in (7.000 cm) |
| **Package 1 Width** | 2.68 in (6.800 cm) |
| **Package 1 Length** | 5.71 in (14.500 cm) |
| **Package 1 Weight** | 2.23 lb(US) (1.013 kg) |
| **Unit Type Of Package 2** | S03 |
| **Number Of Units In Package 2** | 10 |
| **Package 2 Height** | 11.81 in (30.000 cm) |
| **Package 2 Width** | 11.81 in (30.000 cm) |
| **Package 2 Length** | 15.75 in (40.000 cm) |
| **Package 2 Weight** | 23.57 lb(US) (10.691 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

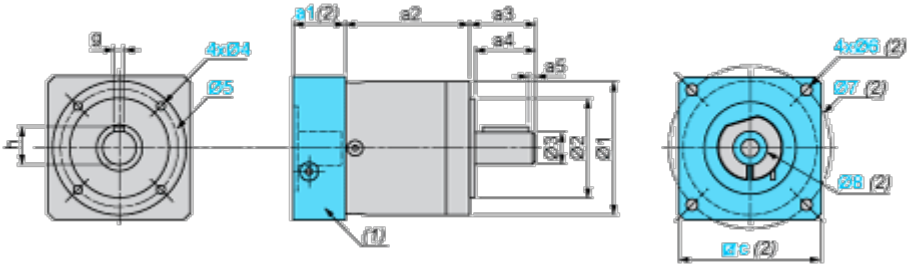
| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## 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<br>Product out of China RoHS scope. Substance declaration for your information. |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | No need of specific recycling operations |
| **California Proposition 65** | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

## 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 | a3 | a4 | a5 | h | g | Ø1 | Ø2 | Ø3 | Ø4 | Ø5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 67.5 | 35 | 30 | 2.5 | 16 | 5 | 60 | 40 h7 | 14 h7 | M5 x 8 | 52 |

Values in in.

| a2 | a3 | a4 | a5 | h | g | Ø1 | Ø2 | Ø3 | Ø4 | Ø5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.66 | 1.38 | 1.18 | 0.10 | 063 | 0.19 | 2.36 | 1.57 h7 | 0.55 h7 | M5 x 0.31 | 2.05 |