

# Product datasheet

Specifications



gearbox straight teeth GBX - Ø 60  
mm - reduction 15:1 < 12 arc.min -  
44 N.m

GBX060015K

EAN Code: 3606480388248

## Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range compatibility       | Lexium 62 ILM<br>Lexium 28<br>Lexium ILA<br>Lexium 62<br>Lexium SD3<br>Lexium ILS<br>Lexium 52<br>Lexium ILE<br>Lexium 32                                                                                                                                                                                                                                                                                                                                                     |
| Gear box type             | Straight teeth                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product or component type | Planetary gearbox                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Device short name         | GBX                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product compatibility     | BMH (70 mm, 1 motor stacks)<br>BSH (55 mm, 1 motor stacks)<br>BSH (55 mm, 2 motor stacks)<br>BSH (55 mm, 3 motor stacks)<br>BSH (70 mm, 1 motor stacks)<br>BRS3<br>ILE (66 mm, 1 motor stacks)<br>ILE (66 mm, 2 motor stacks)<br>ILA (57 mm, 1 motor stacks)<br>ILA (57 mm, 2 motor stacks)<br>ILS (57 mm, 1 motor stacks)<br>ILS (57 mm, 2 motor stacks)<br>ILS (57 mm, 3 motor stacks)<br>BCH2 (60 mm, 1 motor stacks)<br>BCH2 (60 mm, 2 motor stacks)<br>SH3<br>MH3<br>ILM |
| Gearbox external diameter | 60 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reduction ratio           | 15:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 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 at 100 rpm at 30 °C |
| Mounting position          | Any position                |
| Efficiency                 | 98.0 %                      |

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 radial force Fr  | 340 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C |
| Maximum axial force Fa   | 450 N at 100 rpm, during 30000 hour at 30°C                                                  |
| moment of inertia        | 0.077 kg.cm²                                                                                 |
| Continuous output torque | 44 N.m at 100 rpm at 30 °C                                                                   |
| Maximum output torque    | 70 N.m at 100 rpm at 30 °C                                                                   |
| Net weight               | 1.1 kg                                                                                       |
| Input diameter           | 14.0 mm                                                                                      |
| No load running torque   | 0.05 N.m                                                                                     |
| Reduction ratio          | 15                                                                                           |
| Compatibility code       | GBX                                                                                          |
| Internal length          | 67.5 mm                                                                                      |

## Environment

|                                   |                       |
|-----------------------------------|-----------------------|
| Noise level                       | 58 dB at 1 m, no-load |
| IP degree of protection           | Shaft output: IP54    |
| ambient temperature for operation | -25...90 °C           |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 7.0 cm   |
| Package 1 Width              | 7.0 cm   |
| Package 1 Length             | 14.0 cm  |
| Package 1 Weight             | 1.005 kg |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 10       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 10.5 kg  |

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | DE |
|-------------------|----|

## Contractual warranty

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

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint                               |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 1163                                          |
| Environmental Disclosure                              | <a href="#">Product Environmental Profile</a> |

Use Better

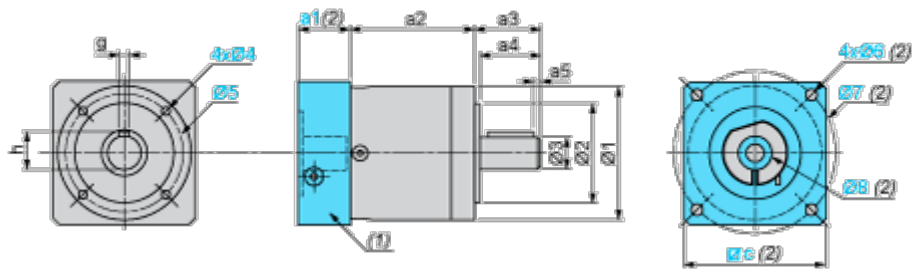
| Materials and Substances               |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Packaging made with recycled cardboard | No                                                         |
| Packaging without single use plastic   | No                                                         |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number                            | 7c9e597c-8ccc-4daf-95fb-5d67fc70d561                       |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                          |
| PVC free                               | Yes                                                        |

Use Again

| Repack and remanufacture |                                          |
|--------------------------|------------------------------------------|
| Circularity Profile      | No need of specific recycling operations |
| Take-back                | No                                       |

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 |