

# Product data sheet

Specifications



gearbox straight teeth GBX, Lexium,  
60mm, reduction 3:1 , 10arc.min,  
28N.m

GBX060003K

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

## Main

<b>Range Compatibility</b>	Lexium ILA Lexium 28 Lexium 62 ILM Lexium 62 Lexium 32 Lexium ILS Lexium 52 Lexium SD3
<b>Gear box type</b>	Straight teeth
<b>Product or Component Type</b>	Planetary gearbox
<b>Device short name</b>	GBX
<b>Product compatibility</b>	BMH 2.8 in (70 mm), 1 BMH 2.8 in (70 mm), 2 BMH 2.8 in (70 mm), 3 BSH 2.2 in (55 mm), 1 BSH 2.2 in (55 mm), 2 BSH 2.2 in (55 mm), 3 BSH 2.8 in (70 mm), 1 BSH 2.8 in (70 mm), 2 BSH 2.8 in (70 mm), 3 BRS3 ILA 2.2 in (57 mm), 1 ILA 2.2 in (57 mm), 2 ILS 2.2 in (57 mm), 1 ILS 2.2 in (57 mm), 2 ILS 2.2 in (57 mm), 3 BCH2 2.4 in (60 mm), 1 BCH2 2.4 in (60 mm), 2 SH3 MH3 ILM
<b>Gearbox external diameter</b>	2.4 in (60 mm)
<b>Reduction ratio</b>	3:1

## Complementary

<b>Maximum torsional backlash</b>	10 arc.min
<b>Torsional rigidity</b>	2.3 N.m/arcmin
<b>Housing Colour</b>	Black
<b>Housing material</b>	Black anodized aluminium
<b>Shaft material</b>	C 45
<b>Additional information</b>	Lubricated for life
<b>Service life in hours</b>	30000 h 100 rpm 86 °F (30 °C)
<b>Mounting position</b>	Any position
<b>Efficiency</b>	96.0 %

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

<b>Maximum radial force Fr</b>	340 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
<b>Maximum axial force Fa</b>	450 N 100 rpm, during 30000 hour at 30 °C
<b>moment of inertia</b>	0.112 kg.cm <sup>2</sup>
<b>Continuous output torque</b>	247.8 lbf.in (28 N.m) 100 rpm 86 °F (30 °C)
<b>Maximum output torque</b>	398.3 lbf.in (45 N.m) 100 rpm 86 °F (30 °C)
<b>Net Weight</b>	2.0 lb(US) (0.9 kg)
<b>Input diameter</b>	0.6 in (14.0 mm)
<b>No load running torque</b>	0.44 lbf.in (0.05 N.m)
<b>Reduction ratio</b>	3
<b>Compatibility code</b>	GBX
<b>Internal length</b>	1.5 in (39.0 mm)

## Environment

<b>Noise level</b>	58 dB 1 m, no-load
<b>IP Degree of Protection</b>	Shaft output IP54
<b>ambient temperature for operation</b>	-13...194 °F (-25...90 °C)

## Ordering and shipping details

<b>Category</b>	US1PC5318283
<b>Discount Schedule</b>	PC53
<b>GTIN</b>	3606480388187
<b>Returnability</b>	No
<b>Country of origin</b>	DE

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	2.68 in (6.800 cm)
<b>Package 1 Width</b>	2.68 in (6.800 cm)
<b>Package 1 Length</b>	5.12 in (13.000 cm)
<b>Package weight(Lbs)</b>	28.783 oz (816.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	18.812 lb(US) (8.533 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## 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 CO2 eq, Total Life cycle) 1163

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 7c9e597c-8ccc-4daf-95fb-5d67fc70d561

REACH Regulation [REACH Declaration](#)

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](http://www.P65Warnings.ca.gov)**

PVC free Yes

## Use Again

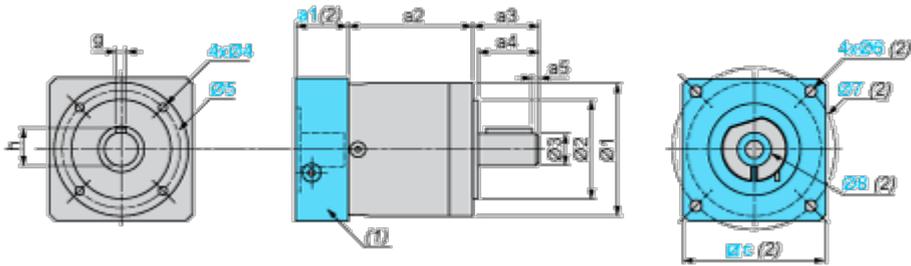
### Repack and remanufacture

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
55	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
2.16	1.38	1.18	0.10	063	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05