

# Product data sheet

Specifications



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

GBX060003K

## Main

Range Compatibility	Lexium ILA Lexium 28 Lexium 62 ILM Lexium 62 Lexium 32 Lexium ILS Lexium 52 Lexium SD3
Product Or Component Type	Planetary gearbox
Gear Box Type	Straight teeth
Device Short Name	GBX
Product Compatibility	BMH (70 mm, 1 motor stacks) BMH (70 mm, 2 motor stacks) BMH (70 mm, 3 motor stacks) BSH (55 mm, 1 motor stacks) BSH (55 mm, 2 motor stacks) BSH (55 mm, 3 motor stacks) BSH (70 mm, 1 motor stacks) BSH (70 mm, 2 motor stacks) BSH (70 mm, 3 motor stacks) BRS3 ILA (57 mm, 1 motor stacks) ILA (57 mm, 2 motor stacks) ILS (57 mm, 1 motor stacks) ILS (57 mm, 2 motor stacks) ILS (57 mm, 3 motor stacks) BCH2 (60 mm, 1 motor stacks) BCH2 (60 mm, 2 motor stacks) SH3 MH3 ILM
Gearbox External Diameter	60 mm
Reduction Ratio	3:1

## Complementary

Maximum Torsional Backlash	10 arc.min
Torsional Rigidity	2.3 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 %

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	0.135 kg.cm²
Continuous Output Torque	28 N.m at 100 rpm at 30 °C
Maximum Output Torque	45 N.m at 100 rpm at 30 °C
Net Weight	0.9 kg
Input Diameter	14.0 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	6.800 cm
Package 1 Width	6.800 cm
Package 1 Length	13.000 cm
Package 1 Weight	816.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.533 kg

## Contractual warranty

Warranty	18 months
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## 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<sub>2</sub> 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](#)

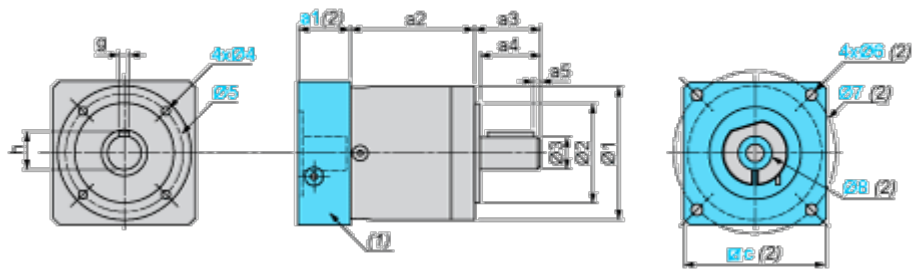
✓ Pvc Free

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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 <a href="#">www.P65Warnings.ca.gov</a>

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