

# gearbox with straight teeth GBX- Ø 160 mm- reduction 12:1- < 10arcmin- 800 N.m

GBX1600121403F

- Discontinued on: Mar 31, 2023
- ! End-of-service on: May 30, 2023

# ① Discontinued

## Main

Range Compatibility	Lexium 62 ILM Lexium 62 Lexium 52 Lexium 32
Product Or Component Type	Planetary gearbox
Gear Box Type	Straight teeth
Device Short Name	GBX
Gearbox External Diameter	160 mm
Product Compatibility	BSH (140 mm, 3 motor stacks) BMH (140 mm, 3 motor stacks) SH3 MH3 ILM
Reduction Ratio	12:1

## Complementary

Maximum Torsional Backlash	10 arc.min
Torsional Rigidity	41 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
Efficiency	94 %
Mounting Position	Any position
Maximum Radial Force Fr	4200 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C 6000 N at 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum Axial Force Fa	6000 N at 100 rpm, during 30000 hour at 30°C 8000 N at 100 rpm, during 10000 hour at 30°C
Moment Of Inertia	12.37 g.cm²
Continuous Output Torque	800 N.m at 100 rpm at 30 °C
Maximum Output Torque	1280 N.m at 100 rpm at 30 °C

Net Weight 22 kg

## **Environment**

Noise Level	70 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	26.0 cm
Package 1 Width	45.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	23.0 kg

## **Contractual warranty**

Warranty 18 months

## Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance





Rohs Exemption Information

Yes



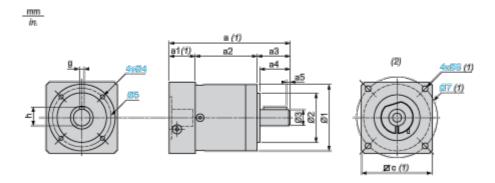
Pvc Free

## **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  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**



- (1) Dimensions a, a1, c, Ø6 and Ø7 depend on the planetary gearbox/servo motor combination
- (2) Servo motor assembly

#### Dimensions in mm

a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 (oblong)	Ø5
153.5	87	80	8	43	12	160	130 h7	40 h7	M12 x 20	145

#### Dimensions in mm

а	a1	С	Ø6	Ø7
305	64.5	140 x 140	M10	165

#### Dimensions in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 oblong	Ø5
6.04	3.42	3.14	0.31	1.69	0.47	6.29	5.12 h7	1.57 h7	M12 x 0.79	5.70

#### Dimensions in in.

а	a1	С	Ø6	Ø7
12.00	2.53	0.21 x 0.21	M10	6.49