



# gearbox straight teeth GBX, Lexium, 80mm, reduction 16:1, 9arc.min, 120N.m

GBX080016K

#### Main

Mani	
Range Compatibility	Lexium 52
	Lexium 32
	Lexium 32i
	Lexium SD3
	Lexium ILS
	Lexium 62 ILM
	Lexium 62
Product Or Component Type	Planetary gearbox
Gear Box Type	Straight teeth
Device Short Name	GBX
Product Compatibility	BMI (70 mm, 2 motor stacks)
	BMI (70 mm, 3 motor stacks)
	BMH (70 mm, 2 motor stacks)
	BMH (70 mm, 3 motor stacks)
	BSH (70 mm, 2 motor stacks)
	BSH (70 mm, 3 motor stacks)
	BMH (100 mm, 1 motor stacks)
	BSH (100 mm, 1 motor stacks)
	BRS3
	ILS (85 mm, 1 motor stacks)
	ILS (85 mm, 2 motor stacks)
	ILS (85 mm, 3 motor stacks)
	SH3
	MH3
	ILM
Gearbox External Diameter	80 mm
Reduction Ratio	16:1

## Complementary

Maximum Torsional Backlash	9 arc.min
Torsional Rigidity	6.5 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	94 %
Maximum Radial Force Fr	650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$
Maximum Axial Force Fa	1200 N at 100 rpm, during 30000 hour at 30°C
Moment Of Inertia	0.5 kg.cm²

Continuous Output Torque	120 N.m at 100 rpm at 30 °C				
Maximum Output Torque	192 N.m at 100 rpm at 30 °C				
Net Weight	2.6 kg				
Input Diameter	19.0 mm				

### **Environment**

Noise Level	60 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	10.8 cm
Package 1 Width	11.0 cm
Package 1 Length	18.5 cm
Package 1 Weight	2.399 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	4
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.921 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





Yes



Pvc Free

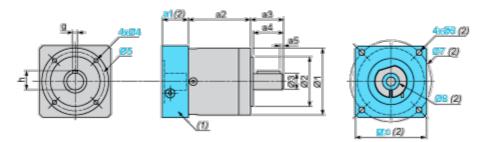
#### **Certifications & Standards**

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				

#### GBX080016K

#### **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	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
89.5	40	36	4	22.5	6	80	60 h7	20 h7	M6 x 10	70

#### Values in in

values	55 III III.									
a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
3.52	1.57	1.42	0.16	089	0.24	3.15	2.36 h7	0.79 h7	M6 x 0.39	2.76