



angular gearbox straight teeth GBY, Lexium, Ø 120mm, reduction 4:1, 11 arc.min, 105N.m

GBY120004K

! Discontinued on: Mar 31, 2023

! End-of-service on: May 30, 2023

# ① Discontinued

Main	
Range Compatibility	Lexium 32 Lexium 32i Lexium 52 Lexium 62 Lexium 62
Product Or Component Type	Angular planetary gearbox
Gear Box Type	Straight teeth
Device Short Name	GBY
Product Compatibility	BMI (100 mm, 2 motor stacks) BMI (100 mm, 3 motor stacks) BMH (100 mm, 3 motor stacks) BSH (100 mm, 3 motor stacks) BSH (140 mm, 1 motor stacks) BSH (140 mm, 4 motor stacks) BSH (140 mm, 1 motor stacks) BSH (140 mm, 1 motor stacks) BSH (140 mm, 1 motor stacks) SH3 MH3 ILM
Gearbox External Diameter	120 mm

# Complementary

**Reduction Ratio** 

Maximum Torsional Backlash	11 arc.min
Torsional Rigidity	12 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	1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum Axial Force Fa	2100 N at 100 rpm, during 30000 hour at 30°C
Moment Of Inertia	3.91 kg.cm²
Continuous Output Torque	105 N.m at 100 rpm at 30 °C

4:1

Maximum Output Torque	168 N.m at 100 rpm at 30 °C					
Net Weight	12 kg					
Input Diameter	24 0 mm					

# **Environment**

Noise Level	75 dB at 1 m, no-load					
Ip Degree Of Protection	Shaft output: IP54					
Ambient Temperature For	-2590 °C					

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.5 cm
Package 1 Width	17 cm
Package 1 Length	27 cm
Package 1 Weight	9.803 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	2
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	20.319 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

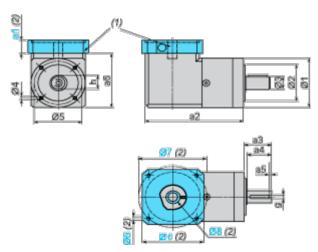
### **Certifications & Standards**

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

### GBY120004K

#### **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	a6
194.5	55	50	5	28	8	115	80 h7	25 h7	M10 x 16	100	123.7

#### Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
7.66	2.17	1.97	0.197	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94	4.87