

# Product data sheet

Specifications



angular gearbox straight teeth GBY,  
Lexium, 120mm, reduction 20:1,  
13arc.min, 260N.m

GBY120020K

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

## Main

Range Compatibility	Lexium 32i Lexium 32 Lexium 62 ILM Lexium 52 Lexium 62
Gear box type	Straight teeth
Product or Component Type	Angular planetary gearbox
Device short name	GBY
Product compatibility	BMI 3.9 in (100 mm), 2 BMH 3.9 in (100 mm), 2 BSH 3.9 in (100 mm), 2 SH3 MH3 ILM
Gearbox external diameter	4.7 in (120 mm)
Reduction ratio	20:1

## Complementary

Maximum torsional backlash	13 arc.min
Torsional rigidity	13 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 100 rpm 86 °F (30 °C)
Mounting position	Any position
Efficiency	95.0 %
Maximum radial force Fr	1500 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	2100 N 100 rpm, during 30000 hour at 30°C
moment of inertia	2.846 kg.cm <sup>2</sup>
Continuous output torque	2301.2 lbf.in (260 N.m) 100 rpm 86 °F (30 °C)
Maximum output torque	3681.9 lbf.in (416 N.m) 100 rpm 86 °F (30 °C)
Net Weight	30.9 lb(US) (14 kg)
Input diameter	0.9 in (24.0 mm)
No load running torque	2.7 lbf.in (0.3 N.m)

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

Reduction ratio	20
Compatibility code	GBY
Internal length	8.7 in (221.5 mm)

## Environment

Noise level	75 dB 1 m, no-load
IP Degree of Protection	Shaft output IP54
ambient temperature for operation	-13...194 °F (-25...90 °C)

## Ordering and shipping details

Category	US1PC5318283
Discount Schedule	PC53
GTIN	3606480388835
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	9.65 in (24.5 cm)
Package 1 Width	8.86 in (22.5 cm)
Package 1 Length	12.60 in (32.0 cm)
Package weight(Lbs)	26.072 lb(US) (11.826 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	5
Package 2 Height	28.94 in (73.5 cm)
Package 2 Width	23.62 in (60.0 cm)
Package 2 Length	31.50 in (80.0 cm)
Package 2 Weight	160.177 lb(US) (72.655 kg)

## Contractual warranty

Warranty	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) 1218

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

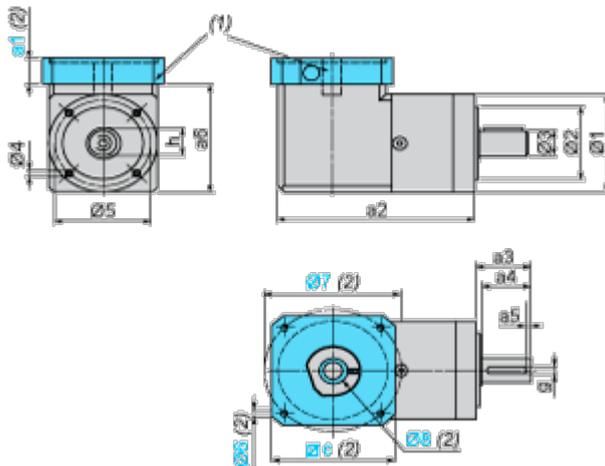
### Repack and remanufacture

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	a6
221.5	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
8.72	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