

# Product data sheet

Specifications



angular gearbox straight teeth GBY,  
Lexium, 60mm, reduction 8:1,  
16arc.min, 18N.m

GBY060008K

## Main

<b>Range compatibility</b>	Lexium 52 Lexium ILS Lexium 32 Lexium 62 ILM Lexium SD3 Lexium ILA Lexium 62
<b>Gear box type</b>	Straight teeth
<b>Product or component type</b>	Angular planetary gearbox
<b>Device short name</b>	GBY
<b>Product compatibility</b>	BSH (55 mm, 1 motor stacks) BSH (55 mm, 2 motor stacks) BSH (55 mm, 3 motor stacks) BSH (70 mm, 1 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) SH3 MH3 ILM
<b>Gearbox external diameter</b>	60 mm
<b>Reduction ratio</b>	8:1

## Complementary

<b>Maximum torsional backlash</b>	16 arc.min
<b>Torsional rigidity</b>	2.3 N.m/arcmin
<b>Housing colour</b>	Black
<b>Housing material</b>	Black anodized aluminium
<b>Shaft material</b>	C 45
<b>Additional information</b>	Lubricated for life
<b>Service life in hours</b>	30000 h at 100 rpm at 30 °C
<b>Mounting position</b>	Any position
<b>Efficiency</b>	89.0 %
<b>Maximum radial force Fr</b>	340 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
<b>Maximum axial force Fa</b>	450 N at 100 rpm, during 30000 hour at 30°C
<b>moment of inertia</b>	0.24 kg.cm <sup>2</sup>
<b>Continuous output torque</b>	18 N.m at 100 rpm at 30 °C

Maximum output torque	29 N.m at 100 rpm at 30 °C
Net weight	1.7 kg
Input diameter	14.0 mm
No load running torque	0.05 N.m
Reduction ratio	8
Compatibility code	GBY
Internal length	112.5 mm

## Environment

Noise level	70 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	9.7 cm
Package 1 Width	8.0 cm
Package 1 Length	18.0 cm
Package 1 Weight	1.68 kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.894 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

Total lifecycle Carbon footprint 1166

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

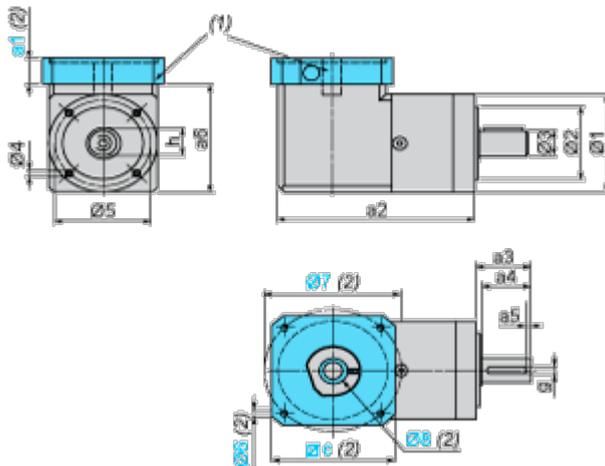
### Repack and remanufacture

End of life manual availability 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
112.5	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52	80.3

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
4.43	1.38	1.18	0.09	0.63	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05	3.16