

angular gearbox straight teeth GBY-Ø 60 mm - reduction 8:1<16 arc.min -18 N.m

GBY060008K

EAN Code: 3606480388675

Main

D	
Range compatibility	Lexium 52
	Lexium ILS
	Lexium 32
	Lexium 62 ILM
	Lexium SD3
	Lexium ILA
	Lexium 62
Gear box type	Straight teeth
Product or component type	Angular planetary gearbox
Device short name	GBY
Product compatibility	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
Gearbox external diameter	60 mm
Reduction ratio	8:1

Complementary

Maximum torsional backlash	16 arc.min
Torsional rigidity	2.3 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	89.0 %
Maximum radial force Fr	340 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$
Maximum axial force Fa	450 N at 100 rpm, during 30000 hour at 30°C
moment of inertia	0.24 kg.cm²
Continuous output torque	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	-2590 °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

Logistical informations

Country of origin

Contractual warranty

Warranty 18 months



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.eq.CO2 per CR, Total Life cycle)	1166							
Environmental Disclosure	Product Environmental Profile							

Use Better

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
PVC free	Yes

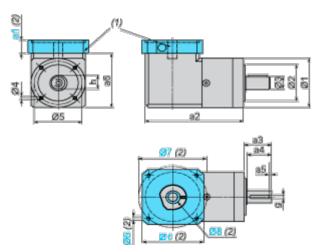
Use Again

○ Repack and remanufacture								
Circularity Profile	No need of specific recycling operations							
Take-back	No							

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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	а5	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