

angular gearbox straight teeth GBY-Ø 120 mm - reduction 3:1<11 arc.min -80 N.m

GBY120003K

EAN Code: 3606480388781

Main

Range compatibility	Lexium 62
	Lexium 62 ILM
	Lexium 32i
	Lexium 32
	Lexium 52
Gear box type	Straight teeth
Product or component type	Angular planetary gearbox
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)
	BMH (140 mm, 1 motor stacks)
	BSH (100 mm, 4 motor stacks)
	BSH (140 mm, 1 motor stacks)
	SH3
	MH3
	ILM
Gearbox external diameter	120 mm
Reduction ratio	3:1

Complementary

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	95.0 %
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	5.75 kg.cm ²
Continuous output torque	80 N.m at 100 rpm at 30 °C
Maximum output torque	128 N.m at 100 rpm at 30 °C
Net weight	12 kg

Input diameter	24.0 mm				
No load running torque	0.3 N.m				
Reduction ratio	3				
Compatibility code	GBY				
Internal length	194.5 mm				

Environment

Noise level	75 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	25.0 cm
Package 1 Width	22.5 cm
Package 1 Length	31.5 cm
Package 1 Weight	9.762 kg
Unit Type of Package 2	S06
Number of Units in Package 2	5
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	61.81 kg

Logistical informations

Country of origin DE

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)	1210							
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

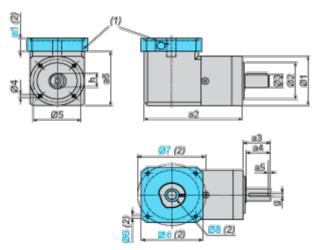
Use Again

○ 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
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