# GBY060003K

angular gearbox straight teeth GBY, Lexium, 60mm, reduction 3:1, 16arc.min, 14N.m





#### Main

Range compatibility	Lexium 32 Lexium 52 Lexium ILS Lexium ILA Lexium 62 ILM Lexium SD3 Lexium 62						
Gear box type	Straight teeth						
Product or component type	Angular planetary gearbox						
Device short name	GBY						
Product compatibility	BMH (70 mm, 1 motor stacks) BMH (70 mm, 2 motor stacks) BSH (55 mm, 1 motor stacks) BSH (55 mm, 2 motor stacks) BSH (55 mm, 3 motor stacks) BSH (70 mm, 1 motor stacks) BSH (70 mm, 2 motor stacks) BSH (70 mm, 2 motor stacks) BRS3 ILA (57 mm, 1 motor stacks) ILA (57 mm, 2 motor stacks) ILS (57 mm, 2 motor stacks) ILS (57 mm, 1 motor stacks) ILS (57 mm, 3 motor stacks) ILS (57 mm, 3 motor stacks) SH3 MH3 ILM						
Gearbox external diameter	60 mm						
Reduction ratio	3:1						

#### 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	94 %					
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	0.246 kg.cm²					
Continuous output torque	14 N.m at 100 rpm at 30 °C					
Maximum output torque	22 N.m at 100 rpm at 30 °C					
Net weight	1.7 kg					
Input diameter	14.0 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	1.67 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	9.063 kg

# Offer Sustainability

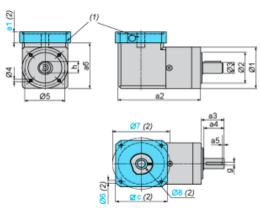
Sustainable offer status	Green Premium product				
REACh Regulation	REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
Mercury free	Yes				
China RoHS Regulation	☑ China RoHS Declaration				
RoHS exemption information	€Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	No need of specific recycling operations				
PVC free	Yes				

### Contractual warranty

Warranty	18 months

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### 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	а6
112.5	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52	80.3

#### Values in in.

á	a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
4	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