Product datasheet





gearbox straight teeth GBX, Lexium, 40mm, reduction 8:1, 15arc.min, 6N.m

GBX040008K

Discontinued on: 1 Nov 2020

① Discontinued

Main

Range compatibility	Lexium SD3 Lexium ILE Lexium 28						
Gear box type	Straight teeth						
product or component type Planetary gearbox							
Device short name	GBX						
Product compatibility	BRS3 ILE (66 mm, 1 motor stacks) ILE (66 mm, 2 motor stacks) BCH2 (40 mm, 1 motor stacks) BCH2 (40 mm, 2 motor stacks)						
Gearbox external diameter	40 mm						
Reduction ratio	8:1						

Complementary

Maximum torsional backlash	15 arc.min					
Torsional rigidity	1 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	96 %					
Maximum radial force Fr	160 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$					
Maximum axial force Fa	160 N at 100 rpm, during 30000 hour at 30°C					
moment of inertia	0.019 kg.cm²					
Continuous output torque	6 N.m at 100 rpm at 30 °C					
Maximum output torque	10 N.m at 100 rpm at 30 °C					
Input diameter	8.0 mm					

Environment

Noise level 55 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	7 cm
Package 1 Width	6.8 cm
Package 1 Length	14 cm
Package 1 Weight	365 g
Unit Type of Package 2	S01
Number of Units in Package 2	10
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	4.725 kg
Unit Type of Package 3	S03
Number of Units in Package 3	10
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	4.363 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



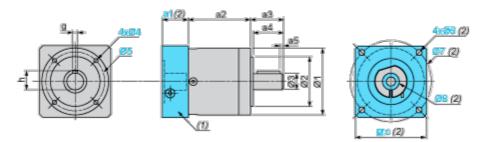
Certifications & Standards

Reach Regulation	REACh Declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	No need of specific recycling operations				

GBX040008K

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
39	26	23	2.5	11.2	3	40	26 h7	10 h7	M4 x 6	34

Values in in

values in in.											
a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	
1.54	1.02	0.90	0.10	0.44	0.11	1.57	1.02 h7	0.39 h7	M4 x 0.23	1.34	