## GBX040008K

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





#### 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 °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**

3					
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				

15 cm
15 cm
40 cm
4.725 kg
S03
10
30 cm
30 cm
40 cm
4.363 kg

## Offer Sustainability

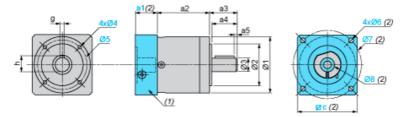
Sustainable offer status	Green Premium product				
REACh Regulation	☑ REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
Mercury free	Yes				
China RoHS Regulation	China RoHS Declaration				
RoHS exemption information	€Yes				
Environmental Disclosure	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
39	26	23	2.5	11.2	3	40	26 h7	10 h7	M4 x 6	34

#### 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