Product data sheet

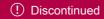




gearbox straight teeth GBX, Lexium, Ø 40mm, reduction 3:1, 15 arc.min, 11N.m

GBX040003K

! Discontinued on: Oct 9, 2023



Product availability: Non-Stock - Not normally stocked in distribution facility

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 2.6 in (66 mm), 1 ILE 2.6 in (66 mm), 2 BCH2 1.6 in (40 mm), 1 BCH2 1.6 in (40 mm), 2					
Gearbox external diameter	1.6 in (40 mm)					
Reduction ratio	3:1					

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 100 rpm 86.00000000000 °F (30 °C)					
mounting position	Any position					
Efficiency	96 %					
Maximum radial force Fr	160 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$					
Maximum axial force Fa	160 N 100 rpm, during 30000 hour at 30°C					
moment of inertia	0.031 kg.cm²					
Continuous output torque	97.4 lbf.in (11 N.m) 100 rpm 86 °F (30 °C)					
Maximum output torque	154.9 lbf.in (17.5 N.m) 100 rpm 86 °F (30 °C)					
Input diameter	0.3 in (8.0 mm)					

Environment

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Noise level	55 dB 1 m, no-load				
IP Degree of Protection	Shaft output IP54				
ambient temperature for operation	-13.0000000000194.0000000000 °F (-2590 °C)				

Ordering and shipping details

Category	US1PC5318283
Discount Schedule	PC53
GTIN	3606480388156
Returnability	No
Country of origin	DE

Packing Units

PCE
1
2.8 in (7 cm)
2.7 in (6.8 cm)
5.5 in (14 cm)
12.6 oz (358 g)
S01
10
5.9 in (15 cm)
5.9 in (15 cm)
15.7 in (40 cm)
10.417 lb(US) (4.725 kg)
S03
10
11.8 in (30 cm)
11.8 in (30 cm)
15.7 in (40 cm)
9.464 lb(US) (4.293 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
Ø	Pvc Free	

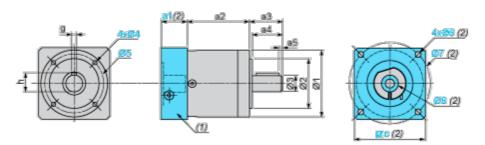
Certifications & Standards

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					
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov					

GBX040003K

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

							Ø2			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