Product datasheet

Specification





gearbox straight teeth GBX - Ø 80 mm - reduction 40:1 < 9 arc.min - 110 N.m

GBX080040K

EAN Code: 3606480388422

Main

Range Compatibility	Lexium 28 Lexium 32 Lexium 62 ILM Lexium 62 Lexium 52					
Product Or Component Type	Planetary gearbox					
Gear Box Type	Straight teeth					
Device Short Name	GBX					
Product Compatibility	BMH (70 mm, 1 motor stacks) BSH (70 mm, 1 motor stacks) BCH2 (80 mm, 1 motor stacks) SH3 MH3 ILM					
Gearbox External Diameter	80 mm					
Reduction Ratio	40:1					

Complementary

Maximum Torsional Backlash	9 arc.min					
Torsional Rigidity	6.5 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	650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C					
Maximum Axial Force Fa	1200 N at 100 rpm, during 30000 hour at 30°C					
Moment Of Inertia	0.39 kg.cm²					
Continuous Output Torque	110 N.m at 100 rpm at 30 °C					
Maximum Output Torque	176 N.m at 100 rpm at 30 °C					
Net Weight	2.6 kg					
Input Diameter	19.0 mm					

Environment

Noise Level	60 dB at 1 m, no-load				
Ip Degree Of Protection	Shaft output: IP54				
Ambient Temperature For Operation	-2590 °C				

Packing Units

Facking Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.5 cm
Package 1 Width	11.0 cm
Package 1 Length	18.5 cm
Package 1 Weight	2.432 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	4
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.225 kg

Logistical informations

Country Of Origin DE

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

②	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

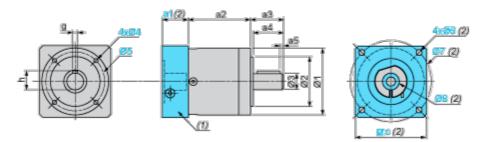
Certifications & Standards

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					

GBX080040K

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	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
89.5	40	36	4	22.5	6	80	60 h7	20 h7	M6 x 10	70

Values in in.

values in in.										
a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
3.52	1.57	1.42	0.16	089	0.24	3.15	2.36 h7	0.79 h7	M6 x 0.39	2.76