Product datasheet

Specifications





gearbox straight teeth GBX, Lexium, 80mm, reduction 10:1, 7arc.min, 38N.m

GBX080010K

Main

Range Compatibility	Lexium 62 ILM Lexium 52 Lexium 32 Lexium 28					
Product Or Component Type	Planetary gearbox					
Gear Box Type Straight teeth						
Device Short Name	GBX					
Product Compatibility	BMH (70 mm, 3 motor stacks) BSH (70 mm, 3 motor stacks) BCH2 (80 mm, 1 motor stacks) SH3 MH3 ILM					
Gearbox External Diameter	80 mm					
Reduction Ratio	10:1					

Complementary

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Maximum Torsional Backlash	7 arc.min					
Torsional Rigidity	6 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	650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\mathrm{C}$					
Maximum Axial Force Fa	900 N at 100 rpm, during 30000 hour at 30°C					
Moment Of Inertia	0.39 kg.cm²					
Continuous Output Torque	38 N.m at 100 rpm at 30 °C					
Maximum Output Torque	61 N.m at 100 rpm at 30 °C					
Net Weight	2.1 kg					
Input Diameter	19.0 mm					

Environment

Life Is On Schneider

Noise Level	60 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	10.8 cm
Package 1 Width	10.8 cm
Package 1 Length	16.6 cm
Package 1 Weight	1.946 kg
Unit Type Of Package 2	\$03
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	8.294 kg

Sustainability Screen Premium

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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

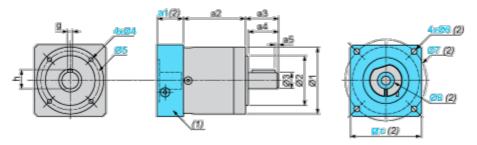
Certifications & Standards

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						

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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	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
72	40	36	4	22.5	6	80	60 h7	20 h7	M6 x 10	70

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
2.83	1.57	1.42	0.16	089	0.24	3.15	2.36 h7	0.79 h7	M6 x 0.39	2.76