Specifications



gearbox straight teeth GBX, Lexium, 80mm, reduction 20:1, 9arc.min, 120N.m

GBX080020K

Main

Range Compatibility	Lexium SD3
	Lexium 32
	Lexium 32i
	Lexium 52
	Lexium 62 ILM
	Lexium ILS
	Lexium 62
	Lexium 28
Product Or Component Type	Planetary gearbox
Gear Box Type	Straight teeth
Device Short Name	GBX
Product Compatibility	BMI (70 mm, 2 motor stacks)
	BMI (70 mm, 3 motor stacks)
	BMH (70 mm, 1 motor stacks)
	BMH (70 mm, 2 motor stacks)
	BMH (70 mm, 3 motor stacks)
	BSH (70 mm, 1 motor stacks)
	BSH (70 mm, 2 motor stacks)
	BSH (70 mm, 3 motor stacks)
	BRS3
	ILS (85 mm, 1 motor stacks)
	ILS (85 mm, 2 motor stacks)
	ILS (85 mm, 3 motor stacks)
	BCH2 (80 mm, 1 motor stacks)
	BCH2 (80 mm, 2 motor stacks)
	SH3
	MH3
	ILM
Gearbox External Diameter	80 mm

Reduction Ratio

Complementary

20:1

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 $^\circ\mathrm{C}$						

Maximum Axial Force Fa	1200 N at 100 rpm, during 30000 hour at 30°C					
Moment Of Inertia	0.44 kg.cm ²					
Continuous Output Torque	120 N.m at 100 rpm at 30 °C					
Maximum Output Torque	92 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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.6 cm
Package 1 Width	11.0 cm
Package 1 Length	18.0 cm
Package 1 Weight	2.399 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	10.121 kg

Contractual warranty

Warranty

18 months

Sustainability

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 >



Eq

Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

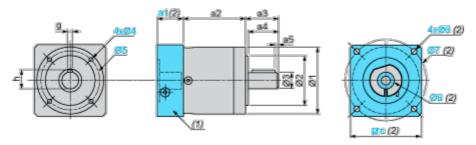
Certifications & Standards

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					
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					

Product data sheet

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
89.5	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
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