



gearbox straight teeth GBX - Ø 120 mm - reduction 3:1 < 7 arc.min - 115 N.m

GBX120003K

EAN Code: 3606480388439

Main

Lexium SD3
Lexium 62
Lexium 28
Lexium 32
Lexium 62 ILM
Lexium 52
Lexium 32i
Planetary gearbox
Straight teeth
GBX
BMI (100 mm, 2 motor stacks)
BMI (100 mm, 3 motor stacks)
BMH (140 mm, 1 motor stacks)
BMH (140 mm, 2 motor stacks)
BMH (140 mm, 3 motor stacks)
BSH (100 mm, 4 motor stacks)
BSH (140 mm, 1 motor stacks)
BSH (140 mm, 2 motor stacks)
BSH (140 mm, 3 motor stacks)
BSH (140 mm, 4 motor stacks)
BRS3
BCH2 (100 mm, 1 motor stacks)
BCH2 (100 mm, 2 motor stacks)
BCH2 (130 mm, 1 motor stacks)
BCH2 (130 mm, 2 motor stacks)
BCH2 (130 mm, 3 motor stacks)
BCH2 (130 mm, 4 motor stacks)
SH3
MH3
ILM
120 mm
3:1

Complementary

Maximum Torsional Backlash	7 arc.min
Torsional Rigidity	12 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	1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C						
Maximum Axial Force Fa	2100 N at 100 rpm, during 30000 hour at 30°C						
Moment Of Inertia	63 kg.cm²						
Continuous Output Torque	115 N.m at 100 rpm at 30 °C						
Maximum Output Torque	184 N.m at 100 rpm at 30 °C						
Net Weight	6 kg						
Input Diameter	24.0 mm						

Environment

Noise Level	65 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	12.5 cm
Package 1 Width	12.52 cm
Package 1 Length	18.5 cm
Package 1 Weight	5.331 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	11.075 kg

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.

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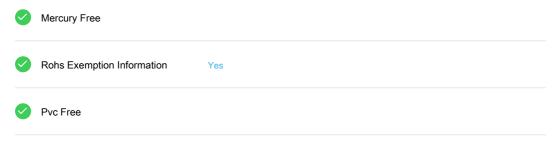
Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



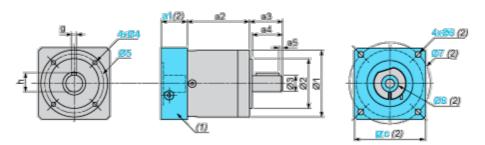
Certifications & Standards

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

							Ø2			Ø5
99.5	55	50	5	28	8	115	80 h7	25 h7	M10 x 16	100

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
3.92	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94