Product data sheet

Specifications

Green Premium[™]



gearbox straight teeth GBX, Lexium, 120mm, reduction 100:1, 11arc.min, 260N.m

GBX120100K

Main

Range compatibility	Lexium 32 Lexium 32i Lexium 62 Lexium 52 Lexium 62 ILM						
Gear box type	Straight teeth						
product or component type Planetary gearbox							
Device short name	GBX						
Product compatibility	BMI 2.8 in (70 mm), 2 BMH 2.8 in (70 mm), 1 BSH 2.8 in (70 mm), 1 SH3 MH3 ILM						
Gearbox external diameter	4.7 in (120 mm)						
Reduction ratio	100:1						

Complementary

Maximum torsional backlash	11 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 100 rpm 86.0000000000 °F (30 °C)					
Mounting position	Any position					
Efficiency	90 %					
Maximum radial force Fr	1500 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\mathrm{C}$					
Maximum axial force Fa	2100 N 100 rpm, during 30000 hour at 30°C					
moment of inertia	1.49 kg.cm ²					
Continuous output torque	2301.2 lbf.in (260 N.m) 100 rpm 86.0000000000 °F (30 °C)					
Maximum output torque	3681.9 lbf.in (416 N.m) 100 rpm 86.0000000000 °F (30 °C)					
net weight	22.05 lb(US) (10 kg)					
Input diameter	0.9 in (24.0 mm)					

Environment

Noise level	65 dB 1 m, no-load
IP degree of protection	Shaft output IP54
ambient temperature for operation	-13.000000000194.000000000 °F (-2590 °C)

Packing Units

Unit Type of Package 1	PCE					
Number of Units in Package 1	1					
Package 1 Height	9.4 in (24 cm)					
Package 1 Width	5.1 in (13 cm)					
Package 1 Length	5.1 in (13 cm)					
Package 1 Weight	19.64 lb(US) (8.91 kg)					
Unit Type of Package 2	S02					
Number of Units in Package 2	2					
Package 2 Height	5.9 in (15 cm)					
Package 2 Width	11.8 in (30 cm)					
Package 2 Length	15.7 in (40 cm)					
Package 2 Weight	40.157 lb(US) (18.215 kg)					

Contractual warranty

Warranty

18 months

Sustainability Screen

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

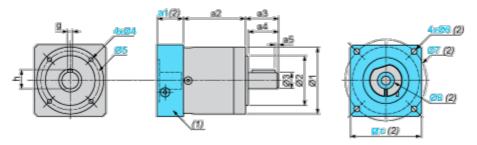
Certifications & Standards

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
154	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
6.06	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94