Product data sheet

Specifications

gearbox straight teeth GBX, Lexium, 80mm, reduction 4:1 , 7arc.min, 115N.m

GBX080004K

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 580.59 USD

Main

Range Compatibility	Lexium 52 Lexium 62 Lexium 62 ILM Lexium 32 Lexium 32i Lexium SD3 Lexium ILS
Product Or Component Type	Planetary gearbox
Gear Box Type	Straight teeth
Device Short Name	GBX
Product Compatibility	BMI 2.76 in (70 mm), 2 BMI 2.76 in (70 mm), 3 BMH 3.94 in (100 mm), 1 BMH 3.94 in (100 mm), 2 BMH 3.94 in (100 mm), 3 BSH 3.94 in (100 mm), 1 BSH 3.94 in (100 mm), 2 BSH 3.94 in (100 mm), 3 BRS3 ILS 3.35 in (85 mm), 1 ILS 3.35 in (85 mm), 2 ILS 3.35 in (85 mm), 3 SH3 MH3 ILM
Gearbox External Diameter	3.15 in (80 mm)
Reduction Ratio	4:1

Complementary

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 100 rpm 86 °F (30 °C)
Mounting Position	Any position
Efficiency	96 %
Maximum Radial Force Fr	650 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum Axial Force Fa	1200 N 100 rpm, during 30000 hour at 30°C
Moment Of Inertia	0.52 kg.cm²
Continuous Output Torque	1017.83 lbf.in (115 N.m) 100 rpm 86 °F (30 °C)
Maximum Output Torque	1628.53 lbf.in (184 N.m) 100 rpm 86 °F (30 °C)
Net Weight	4.63 lb(US) (2.1 kg)
Input Diameter	0.75 in (19.0 mm)

Environment

Noise Level	60 dB 1 m, no-load
Ip Degree Of Protection	Shaft output IP54
Ambient Temperature For Operation	-13…194 °F (-25…90 °C)

Ordering and shipping details

Category	US1PC5318283
Discount Schedule	PC53
Gtin	3606480388323
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.13 in (10.5 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	6.69 in (17.0 cm)
Package 1 Weight	4.25 lb(US) (1.93 kg)
Unit Type Of Package 2	S03
Number Of Units In Package 2	5
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	22.50 lb(US) (10.208 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

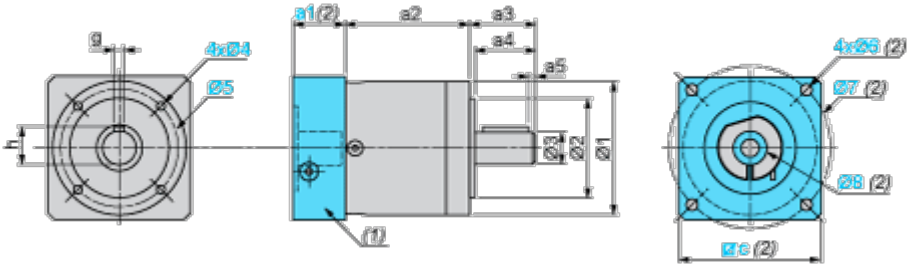
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

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
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

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