Product data sheet

Specifications



gearbox straight teeth GBX, Lexium, 60mm, reduction 12:1 , 12arc.min, 44N.m

GBX060012K

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

Main

Range Compatibility	Lexium ILE Lexium ILA Lexium ILS Lexium 62 Lexium 32 Lexium 62 ILM Lexium 28 Lexium 52 Lexium SD3
Gear box type	Straight teeth
Product or Component Type	Planetary gearbox
Device short name	GBX
Product compatibility	BMH 2.8 in (70 mm), 1 BMH 2.8 in (70 mm), 2 BSH 2.2 in (55 mm), 1 BSH 2.2 in (55 mm), 2 BSH 2.2 in (55 mm), 3 BSH 2.8 in (70 mm), 1 BSH 2.8 in (70 mm), 2 BRS3 ILE 2.6 in (66 mm), 1 ILE 2.6 in (66 mm), 2 ILA 2.2 in (57 mm), 1 ILA 2.2 in (57 mm), 2 ILS 2.2 in (57 mm), 1 ILS 2.2 in (57 mm), 2 ILS 2.2 in (57 mm), 3 BCH2 2.4 in (60 mm), 1 BCH2 2.4 in (60 mm), 2 SH3 MH3 ILM
Gearbox external diameter	2.4 in (60 mm)
Reduction ratio	12:1

Complementary

Maximum torsional backlash	12 arc.min
Torsional rigidity	2.5 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 100 rpm 86 °F (30 °C)
Mounting position	Any position
Efficiency	98.0 %

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 radial force Fr	340 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	450 N 100 rpm, during 30000 hour at 30°C
moment of inertia	0.112 kg.cm²
Continuous output torque	389.4 lbf.in (44 N.m) 100 rpm 86 °F (30 °C)
Maximum output torque	619.6 lbf.in (70 N.m) 100 rpm 86 °F (30 °C)
Product Weight	2.4 lb(US) (1.1 kg)
Input diameter	0.6 in (14.0 mm)
No load running torque	0.44 lbf.in (0.05 N.m)
Reduction ratio	12
Compatibility code	GBX
Internal length	2.7 in (67.5 mm)

Environment

Noise level	58 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	3606480388231
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.8 in (7.0 cm)
Package 1 Width	2.8 in (7.0 cm)
Package 1 Length	5.7 in (14.5 cm)
Package weight(Lbs)	2.238 lb(US) (1.015 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	11.8 in (30.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	23.475 lb(US) (10.648 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**1 163 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**4 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**1 159 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.1 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
SCIP Number	**7c9e597c-8ccc-4daf-95fb-5d67fc70d561**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

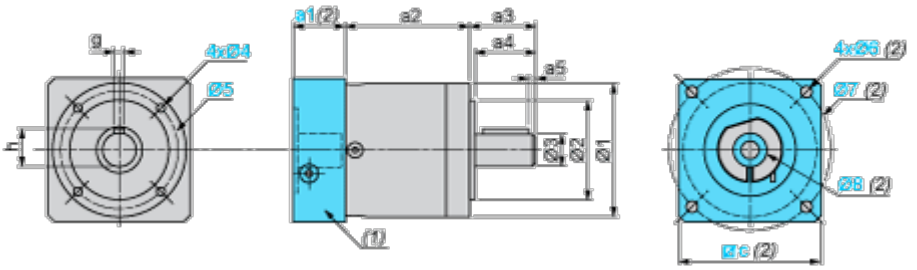
Use Again

Repack and remanufacture

Circularity Profile	**No need of specific recycling operations**
Take-back	**No**

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
67.5	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
2.66	1.38	1.18	0.10	063	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05