

Product data sheet

Specifications



gearbox with straight teeth GBX- A~ 160 mm- reduction 8:1- < 6arcmin- 450 N.m

GBX1600081403F

Main

Range compatibility	Lexium 62 ILM Lexium 15 Lexium 52 Lexium 32 Lexium 62
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Gearbox external diameter	160 mm
Product compatibility	BSH (140 mm, 3 motor stacks) BMH (140 mm, 3 motor stacks) SH3 MH3 ILM
Reduction ratio	8:1

Complementary

Maximum torsional backlash	6 arc.min
Torsional rigidity	38 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
Efficiency	95 %
Mounting position	Any position
Maximum radial force Fr	4200 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C 6000 N at 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	6000 N at 100 rpm, during 30000 hour at 30 °C 8000 N at 100 rpm, during 10000 hour at 30 °C
moment of inertia	4.695 kg.cm ²
Continuous output torque	450 N.m at 100 rpm at 30 °C
Maximum output torque	720 N.m at 100 rpm at 30 °C
Net weight	18 kg
Compatibility code	GBX

Internal length	104.0 mm
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Environment

Noise level	70 dB at 1 m, no-load
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IP degree of protection	Shaft output: IP54
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ambient temperature for operation	-25...90 °C
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	26.0 cm
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Package 1 Width	45.0 cm
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Package 1 Length	26.0 cm
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Package 1 Weight	19.0 kg
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Contractual warranty

Warranty	18 months
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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 **3815**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **No**

[EU RoHS Directive](#) **Pro-active compliance (Product out of EU RoHS legal scope)**

SCIP Number **7c9e597c-8ccc-4daf-95fb-5d67fc70d561**

REACH Regulation [REACH Declaration](#)

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 Again

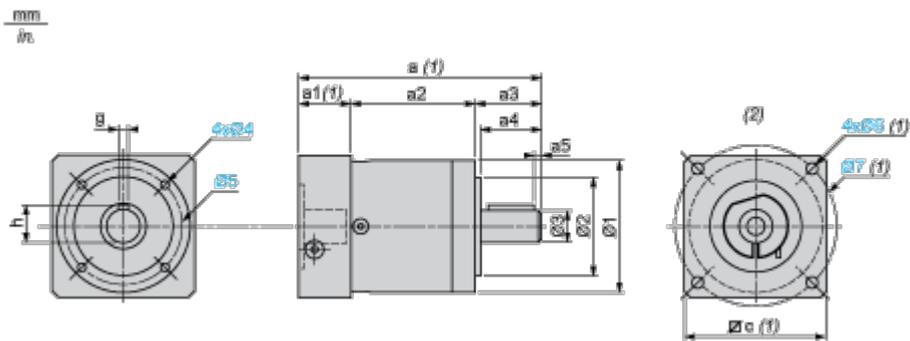
Repack and remanufacture

End of life manual availability **No need of specific recycling operations**

Take-back **No**

Dimensions Drawings

Dimensions



- (1) Dimensions a, a1, c, Ø6 and Ø7 depend on the planetary gearbox/servo motor combination
- (2) Servo motor assembly

Dimensions in mm

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 (oblong)	Ø5
104	87	80	8	43	12	160	130 h7	40 h7	M12 x 20	145

Dimensions in mm

a	a1	c	Ø6	Ø7
255.5	64.5	140 x 140	M10	165

Dimensions in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 oblong	Ø5
4.09	3.42	3.14	0.31	1.69	0.47	6.29	5.12 h7	1.57 h7	M12 x 0.79	5.70

Dimensions in in.

a	a1	c	Ø6	Ø7
10.05	2.53	0.21 x 0.21	M10	6.49