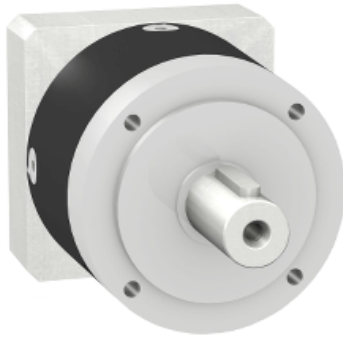


# Product data sheet

## Characteristics

# GBX1600161004F

gearbox with straight teeth GBX- Ø 160 mm-  
reduction 16:1- < 10arcmin- 800 N.m



### Main

Range compatibility	Lexium 15 Lexium 32 Lexium 62 ILM Lexium 52 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 (100 mm, 4 motor stacks) SH3 MH3 ILM
Reduction ratio	16:1

### Complementary

Torsional backlash	< 10 arc.min
Torsional rigidity	41 N.m/arcmin
Housing colour	Black
Housing material	Black anodized aluminium
Shaft material	C 45
Additional information	Lubricated for life
Service life in hours	At 100 rpm at 30 °C
Efficiency	94 %
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
Shaft moment of inertia	7.47 g.cm <sup>2</sup>
Continuous output torque	800 N.m at 100 rpm at 30 °C
Maximum output torque	1280 N.m at 100 rpm at 30 °C
Product weight	22 kg

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

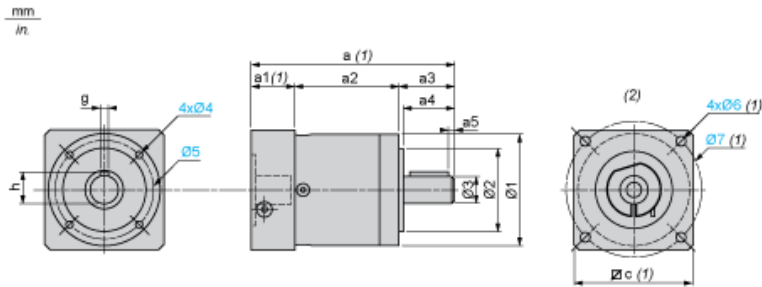
## Environment

Noise level	70 dB at 1 m, no-load
IP degree of protection	IP54 on shaft output
Ambient air temperature for operation	-25...90 °C

## Contractual warranty

Warranty period	18 months
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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
153.5	87	80	8	43	12	160	130 h7	40 h7	M12 x 20	145

Dimensions in mm

a	a1	c	Ø6	Ø7
305	64.5	140 x 140	M8	115

Dimensions in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 oblong	Ø5
6.04	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
12.00	2.53	0.21 x 0.21	M8	4.52