

# Product data sheet

## Characteristics

# GBX120010K

gear box straight teeth GBX - Ø 120 mm -  
reduction 10:1 < 7 arc.min - 95 N.m



### Main

Range compatibility	Lexium 32 Lexium 28 Lexium 62 ILM Lexium 52 Lexium 62
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Product compatibility	BMH (100 mm, 3 motor stacks) BSH (100 mm, 1 motor stacks) BSH (100 mm, 3 motor stacks) BCH2 (100 mm, 1 motor stacks) BCH2 (130 mm, 1 motor stacks) SH3 MH3 ILM
Gearbox external diameter	120 mm
Reduction ratio	10:1

### Complementary

Torsional backlash	< 7 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 at 100 rpm at 30 °C
Mounting position	Any position
Efficiency	96 %
Maximum radial force Fr	1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	2100 N at 100 rpm, during 30000 hour at 30 °C
Moment of inertia	1.3 kg.cm <sup>2</sup>
Continuous output torque	95 N.m at 100 rpm at 30 °C
Maximum output torque	152 N.m at 100 rpm at 30 °C

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

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Product weight	6 kg
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## Environment

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Noise level	65 dB at 1 m, no-load
IP degree of protection	IP54 on shaft output
Ambient temperature for operation	-25...90 °C

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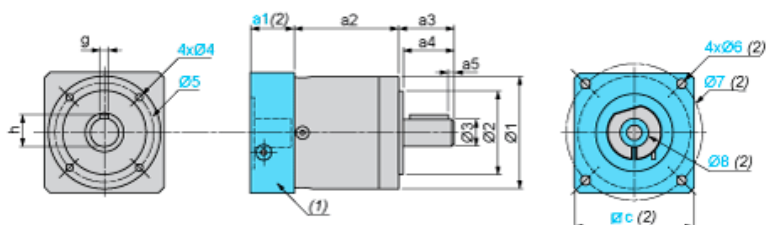
## Offer Sustainability

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RoHS (date code: YYWW)	Compliant - since 1129 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
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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
99.5	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
3.92	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94