

Product data sheet

Characteristics

GBY120008K

angular gearbox straight teeth GBY, Lexium, 120mm, reduction 8:1, 11arc.min, 120N.m



Main

Range compatibility	Lexium 62 ILM Lexium 62 Lexium 52 Lexium 32 Lexium 32i
Gear box type	Straight teeth
Product or component type	Angular planetary gearbox
Device short name	GBY
Product compatibility	BMI (100 mm, 2 motor stacks) BMH (100 mm, 2 motor stacks) BMH (100 mm, 3 motor stacks) BSH (100 mm, 2 motor stacks) SH3 MH3 ILM
Gearbox external diameter	120 mm
Reduction ratio	8:1

Complementary

Maximum torsional backlash	11 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	94 %
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	2.89 kg.cm ²
Continuous output torque	120 N.m at 100 rpm at 30 °C
Maximum output torque	192 N.m at 100 rpm at 30 °C
Net weight	12 kg
Input diameter	24.0 mm

Environment

Noise level	75 dB at 1 m, no-load
IP degree of protection	Shaft output: IP54
Ambient temperature for operation	-25...90 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.5 cm
Package 1 Width	17 cm
Package 1 Length	27 cm
Package 1 Weight	9.895 kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	20.503 kg

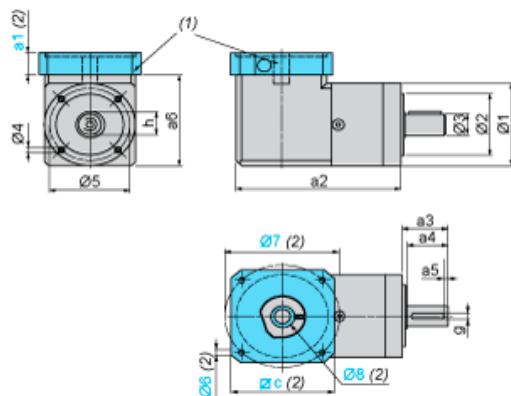
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	No need of specific recycling operations
PVC free	Yes

Contractual warranty

Warranty	18 months
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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	a6
194.5	55	50	5	28	8	115	80 h7	25 h7	M10 x 16	100	123.7

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
7.66	2.17	1.97	0.197	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94	4.87