



Main

Range compatibility	Lexium SD3 Lexium ILE Lexium 28
Gear box type	Straight teeth
Product or component type	Planetary gearbox
Device short name	GBX
Product compatibility	BRS3 ILE (66 mm, 1 motor stacks) ILE (66 mm, 2 motor stacks) BCH2 (40 mm, 1 motor stacks) BCH2 (40 mm, 2 motor stacks)
Gearbox external diameter	40 mm
Reduction ratio	8:1

Complementary

Maximum torsional backlash	15 arc.min
Torsional rigidity	1 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	160 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	160 N at 100 rpm, during 30000 hour at 30 °C
Moment of inertia	0.019 kg.cm ²
Continuous output torque	6 N.m at 100 rpm at 30 °C
Maximum output torque	10 N.m at 100 rpm at 30 °C
Input diameter	8.0 mm

Environment

Noise level	55 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	7 cm
Package 1 Width	6.8 cm
Package 1 Length	14 cm
Package 1 Weight	365 g
Unit Type of Package 2	S01
Number of Units in Package 2	10

Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	4.725 kg
Unit Type of Package 3	S03
Number of Units in Package 3	10
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	4.363 kg

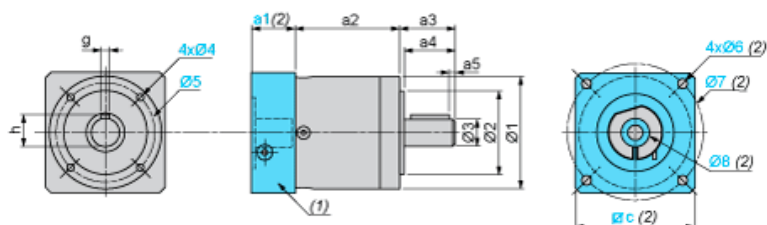
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	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
39	26	23	2.5	11.2	3	40	26 h7	10 h7	M4 x 6	34

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
1.54	1.02	0.90	0.10	0.44	0.11	1.57	1.02 h7	0.39 h7	M4 x 0.23	1.34