

Main

Range compatibility	Lexium ILS Lexium SD3 Lexium 32 Lexium 32i Lexium 62 ILM Lexium 52 Lexium 62
Product or component type	Angular planetary gearbox
Gear box type	Straight teeth
Device short name	GBY
Product compatibility	BRS3 BMI (2.76 in (70 mm), 2 motor stacks) BMH (2.76 in (70 mm), 2 motor stacks) BMH (2.76 in (70 mm), 3 motor stacks) BSH (2.76 in (70 mm), 2 motor stacks) BMH (3.94 in (100 mm), 1 motor stacks) BSH (3.94 in (100 mm), 1 motor stacks) ILS (3.35 in (85 mm), 1 motor stacks) ILS (3.35 in (85 mm), 2 motor stacks) ILS (3.35 in (85 mm), 3 motor stacks) SH3 MH3 ILM
Gearbox external diameter	3.15 in (80 mm)
Reduction ratio	8:1

Complementary

Torsional backlash	< 13 arc.min
Torsional rigidity	6 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 86 °F (30 °C)
Mounting position	Any position
Efficiency	94 %
Maximum radial force Fr	650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	1200 N at 100 rpm, during 30000 hour at 30 °C
Shaft moment of inertia	0.809 kg.cm ²
Continuous output torque	442.48 lbf.in (50 N.m) at 100 rpm at 86 °F (30 °C)
Maximum output torque	707.96 lbf.in (80 N.m) at 100 rpm at 86 °F (30 °C)
Product weight	9.7 lb(US) (4.4 kg)

Environment

noise level	73 dB at 1 m, no-load
IP degree of protection	IP54 on shaft output
ambient air temperature for operation	-13...194 °F (-25...90 °C)

Offer Sustainability

Green Premium product	Green Premium product
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Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

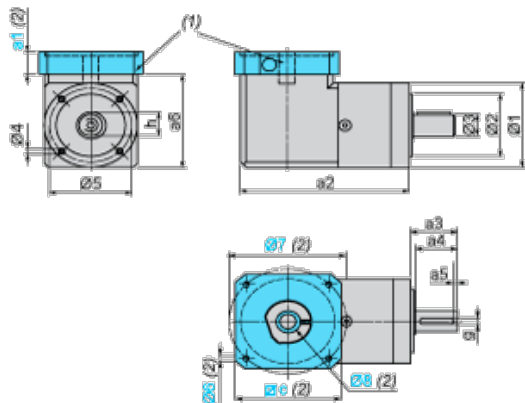
Available Available

Need no specific recycling operations Need no specific recycling operations

Contractual warranty

Warranty period 18 months

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
144	40	36	4	22.5	6	80	60 h7	20 h7	M6 x 10	70	88.3

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
5.67	1.57	1.42	0.15	0.88	0.23	3..15	2.36 h7	0.78 h7	M6 x 0.39	2.76	3.48