



Main

Range compatibility	Lexium ILA Lexium ILS Lexium SD3 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	BRS3 BMH (2.76 in (70 mm), 1 motor stacks) BMH (2.76 in (70 mm), 2 motor stacks) BMH (2.76 in (70 mm), 3 motor stacks) BSH (2.17 in (55 mm), 1 motor stacks) BSH (2.17 in (55 mm), 2 motor stacks) BSH (2.17 in (55 mm), 3 motor stacks) BSH (2.76 in (70 mm), 1 motor stacks) BSH (2.76 in (70 mm), 2 motor stacks) BSH (2.76 in (70 mm), 3 motor stacks) ILA (2.24 in (57 mm), 1 motor stacks) ILA (2.24 in (57 mm), 2 motor stacks) ILS (2.24 in (57 mm), 1 motor stacks) ILS (2.24 in (57 mm), 2 motor stacks) ILS (2.24 in (57 mm), 3 motor stacks) BCH2 (2.36 in (60 mm), 1 motor stacks) BCH2 (2.36 in (60 mm), 2 motor stacks) SH3 MH3 ILM
Gearbox external diameter	2.36 in (60 mm)
Reduction ratio	5:1

Complementary

Torsional backlash	< 10 arc.min
Torsional rigidity	2.3 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	96 %
Maximum radial force Fr	340 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	450 N at 100 rpm, during 30000 hour at 30 °C
Shaft moment of inertia	0.078 kg.cm ²
Continuous output torque	353.98 lbf.in (40 N.m) at 100 rpm at 86 °F (30 °C)
Maximum output torque	566.37 lbf.in (64 N.m) at 100 rpm at 86 °F (30 °C)
Product weight	1.98 lb(US) (0.9 kg)

Environment

noise level	58 dB at 1 m, no-load
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The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

IP degree of protection	IP54 on shaft output
ambient air temperature for operation	-13...194 °F (-25...90 °C)

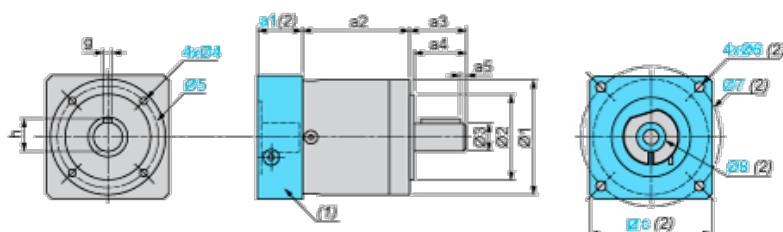
Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1129 - Schneider Electric declaration of conformity	Compliant - since 1129 - Schneider Electric declaration of conformity
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
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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
55	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
2.16	1.38	1.18	0.10	063	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05