Product data sheet
Characteristics

GBX120012K
gearbox straight teeth GBX, Lexium, 120mm, reduction 12:1 , 9arc.min, 260N.m



Main

Range compatibility	Lexium SD3 Lexium 32 Lexium 28 Lexium 62 ILM Lexium 62 Lexium 32i Lexium 52
Gear box type	Straight teeth
Product or component type	Planetary gearbox
Device short name	GBX
Product compatibility	BMI (100 mm, 3 motor stacks) BMH (100 mm, 3 motor stacks) BSH (100 mm, 3 motor stacks) BMH (140 mm, 1 motor stacks) BSH (100 mm, 4 motor stacks) BSH (140 mm, 1 motor stacks) BRS3 BCH2 (100 mm, 1 motor stacks) BCH2 (100 mm, 2 motor stacks) BCH2 (130 mm, 1 motor stacks) BCH2 (130 mm, 2 motor stacks) BCH2 (130 mm, 3 motor stacks) BCH2 (130 mm, 4 motor stacks) SH3 MH3 ILM
Gearbox external diameter	120 Mm
Reduction ratio	12:1

Complementary

Maximum torsional backlash	9 Arc.Min
Torsional rigidity	13 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	97.0 %
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
Shaft moment of inertia	1.835 Kg.Cm²
Continuous output torque	260 N.M at 100 rpm at 30 °C

Maximum output torque	416 N.M at 100 rpm at 30 °C
Net weight	8 Kg
Internal diameter	24.0 Mm
No load running torque	0.3 N.M
Reduction ratio	12
Compatibility code	GBX
Length	126.5 Mm

Environment

Noise level	65 DB at 1 m, no-load
IP degree of protection	Shaft output: IP54
Ambient air temperature for operation	-25…90 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.500 Cm
Package 1 Width	12.500 Cm
Package 1 Length	12.500 Cm
Package 1 Weight	7.080 Kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	45.000 Cm
Package 2 Width	60.000 Cm
Package 2 Length	80.000 Cm
Package 2 Weight	37.500 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 193 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	32.2528735632
Carbon footprint of the manufacturing phase [A1 to A3]	32 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.032183908
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0202497126
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1158.8
Carbon footprint of the use phase [B2, B3, B4, B6]	1 159 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.7148563218
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Total lifecycle Carbon footprint	1193
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	7c9e597c-8ccc-4daf-95fb-5d67fc70d561
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
PVC free	Yes
End of life manual availability	No need of specific recycling operations
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status :	Commercialised