Product data sheet
Characteristics

GBX080008K
gearbox straight teeth GBX, Lexium, 80mm, reduction 8:1 , 7arc.min, 50N.m



Main

Range compatibility	Lexium SD3 Lexium 62 Lexium 32i Lexium 32 Lexium 62 ILM Lexium 52 Lexium 28 Lexium ILS
Gear box type	Straight teeth
Product or component type	Planetary gearbox
Device short name	GBX
Product compatibility	BMI (70 mm, 2 motor stacks) BMI (70 mm, 3 motor stacks) BMH (70 mm, 2 motor stacks) BMH (70 mm, 3 motor stacks) BSH (70 mm, 2 motor stacks) BSH (70 mm, 3 motor stacks) BMH (100 mm, 1 motor stacks) BSH (100 mm, 1 motor stacks) BRS3 ILS (85 mm, 1 motor stacks) ILS (85 mm, 2 motor stacks) ILS (85 mm, 3 motor stacks) BCH2 (80 mm, 1 motor stacks) BCH2 (80 mm, 2 motor stacks) SH3 MH3 ILM
Gearbox external diameter	80 Mm
Reduction ratio	8:1

Complementary

Maximum torsional backlash	7 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 30 °C
Mounting position	Any position
Efficiency	97.0 %
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	0.455 Kg.Cm²

Continuous output torque	50 N.M at 100 rpm at 30 °C
Maximum output torque	80 N.M at 100 rpm at 30 °C
Net weight	2.1 Kg
Internal diameter	19.0 Mm
No load running torque	0.1 N.M
Reduction ratio	8
Compatibility code	GBX
Length	72.0 Mm

Environment

Noise level	60 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	10.8 Cm
Package 1 Width	10.8 Cm
Package 1 Length	16.5 Cm
Package 1 Weight	1.916 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	10.086 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 168 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	8.4663793103
Carbon footprint of the manufacturing phase [A1 to A3]	8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2709482759
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0053155496
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]	0.1876497845
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Total lifecycle Carbon footprint	1168
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