Product data sheet
Characteristics

GBY060020K
angular gearbox straight teeth GBY, Lexium, 60mm, reduction 20:1, 18arc.min, 44N.m



Main

Range compatibility	Lexium ILS Lexium ILE Lexium SD3 Lexium 62 Lexium 62 ILM Lexium 52 Lexium 32 Lexium ILA
Gear box type	Straight teeth
Product or component type	Angular planetary gearbox
Device short name	GBY
Product compatibility	BSH (55 mm, 1 motor stacks) BSH (55 mm, 2 motor stacks) BSH (55 mm, 3 motor stacks) BRS3 ILE (66 mm, 1 motor stacks) ILE (66 mm, 2 motor stacks) ILA (57 mm, 1 motor stacks) ILA (57 mm, 2 motor stacks) ILS (57 mm, 1 motor stacks) ILS (57 mm, 2 motor stacks) ILS (57 mm, 3 motor stacks) SH3 MH3 ILM
Gearbox external diameter	60 Mm
Reduction ratio	20:1

Complementary

Maximum torsional backlash	18 Arc.Min
Torsional rigidity	2.5 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	89.0 %
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	0.249 Kg.Cm²
Continuous output torque	44 N.M at 100 rpm at 30 °C
Maximum output torque	70 N.M at 100 rpm at 30 °C

Net weight	1.9 Kg
Internal diameter	14.0 Mm
No load running torque	0.05 N.M
Reduction ratio	20
Compatibility code	GBY
Length	124.5 Mm

Environment

Noise level	70 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	10.400 Cm
Package 1 Width	10.800 Cm
Package 1 Length	20.200 Cm
Package 1 Weight	1.846 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	10.078 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 167 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7.6600574713
Carbon footprint of the manufacturing phase [A1 to A3]	8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2451436782
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0048093068
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]	0.1697783764
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Total lifecycle Carbon footprint	1167
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