Product data sheet
Characteristics

GBY120020K
angular gearbox straight teeth GBY, Lexium, 120mm, reduction 20:1, 13arc.min, 260N.m



Main

Range compatibility	Lexium 32i Lexium 32 Lexium 62 ILM Lexium 52 Lexium 62
Gear box type	Straight teeth
Product or component type	Angular planetary gearbox
Device short name	GBY
Product compatibility	BMI (100 mm, 2 motor stacks) BMH (100 mm, 2 motor stacks) BSH (100 mm, 2 motor stacks) SH3 MH3 ILM
Gearbox external diameter	120 Mm
Reduction ratio	20:1

Complementary

Maximum torsional backlash	13 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	95.0 %
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	2.708 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	14 Kg
Internal diameter	24.0 Mm
No load running torque	0.3 N.M
Reduction ratio	20
Compatibility code	GBY
Length	221.5 Mm

Environment

Noise level	75 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	24.5 Cm
Package 1 Width	22.5 Cm
Package 1 Length	32.0 Cm
Package 1 Weight	11.826 Kg
Unit Type of Package 2	S06
Number of Units in Package 2	5
Package 2 Height	73.5 Cm
Package 2 Width	60.0 Cm
Package 2 Length	80.0 Cm
Package 2 Weight	72.655 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 218 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	56.4425287356
Carbon footprint of the manufacturing phase [A1 to A3]	56 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.8063218391
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0354369971
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]	1.2509985632
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Total lifecycle Carbon footprint	1218
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