

Product datasheet

Specifications



gearbox with straight teeth GBX- Ã~
160 mm- reduction 8:1- < 6arcmin-
450 N.m

GBX1600081004F

⚠ Discontinued - Service only

⚠ Discontinued on: Jun 15, 2023

⚠ To be end-of-service on: Mar 31, 2028

Main

Range compatibility	Lexium 32 Lexium 15
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Gearbox external diameter	160 mm
Product compatibility	BSH1004...
Reduction ratio	8:1

Complementary

Maximum torsional backlash	6 arc.min
Torsional rigidity	38 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
Efficiency	96 %
mounting position	Any position
Maximum radial force Fr	4200 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C 6000 N at 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	6000 N at 100 rpm, during 30000 hour at 30°C 8000 N at 100 rpm, during 10000 hour at 30°C
moment of inertia	4.63 g.cm²
Continuous output torque	450 N.m at 100 rpm at 30 °C
Maximum output torque	720 N.m at 100 rpm at 30 °C
Product weight	18 kg

Environment

Noise level	70 dB at 1 m, no-load
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Disclaimer: 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

IP degree of protection	Shaft output: IP54
ambient temperature for operation	-25...90 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	45.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	19.0 kg

Contractual warranty

Warranty	18 months
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