

Product data sheet

Characteristics

GBX0800030702F

gearbox with straight teeth GBX - Ø 80 mm -
reduction 3:1 - < 9 ° - 85 N.m

Main

Range compatibility	Lexium 05 Lexium 15
Product or component type	Planetary gearbox with straight teeth
Device short name	GBX
Product compatibility	BSH0702
External diameter	80 mm
Reduction ratio	3:1
Additional information	Lubricated life

Complementary

Torsional backlash	< 9 °
Torsional rigidity	6 Nm/arcmin
Housing colour	Black
Housing material	Black anodized aluminium
Shaft material	C 45
Service life in hours	30000 h 100 rpm 30 °C
Mounting position	Any position
Efficiency	96 %
Maximum radial force Fr	650 N 100 rpm force applied at mid-distance from output shaft during 30000 hour at 30 °C 950 N 100 rpm force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	900 N 100 rpm during 30000 hour at 30°C 1200 N 100 rpm during 10000 hour at 30°C
Shaft moment of inertia	0.77 kg.cm²
Continuous output torque	85 N.m 100 rpm 30 °C
Maximum output torque	136 N.m at 100 rpm at 30 °C
Product weight	2.1 kg

Environment

Noise level	60 dB at 1 m , no-load
IP degree of protection	IP54 at shaft output
Ambient temperature for operation	-25...90 °C