

Product data sheet

Characteristics

GBX0400120553F

gearbox with straight teeth GBX - Ø 40 mm -
reduction 12:1 - < 28 ° - 20 N.m

Main

Range compatibility	Lexium 05 Lexium 15
Product or component type	Planetary gearbox with straight teeth
Device short name	GBX
Product compatibility	BSH0552
Casing diameter	40 mm
Reduction ratio	12:1
Additional information	Lubricated for life

Complementary

Torsional backlash	< 28 °
Torsional rigidity	1.1 Nm/arcmin
Housing colour	Black
Housing material	Black anodized aluminium
Shaft material	C 45
Service life in hours	30000 h at 100 rpm at 30 °C
Mounting position	Any position
Efficiency	94 %
Maximum radial force Fr	160 N at 100 rpm , force applied at mid-distance from output shaft during 30000 hour at 30 °C 200 N at 100 rpm , force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	160 N at 100 rpm , during 30000 hour at 30°C 200 N at 100 rpm , during 10000 hour at 30°C
Moment of inertia	0.029 kg.cm²
Continuous output torque	20 N.m at 100 rpm at 30 °C
Maximum output torque	32 N.m at 100 rpm at 30 °C
Product weight	0.45 kg

Environment

Noise level	55 dB at 1 m , no-load
IP degree of protection	IP54 at shaft output
Ambient temperature for operation	-25...90 °C