

# Product data sheet

## Characteristics

# GBX0800600552F

gearbox with straight teeth GBX - Ø 80 mm - reduction 60:1 - < 16 ° - 110 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	80 mm
Reduction ratio	60:1
Additional information	Lubricated for life

### Complementary

Torsional backlash	< 16 °
Torsional rigidity	6.3 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	90 %
Maximum radial force Fr	650 N at 100 rpm , force applied at mid-distance from output shaft during 30000 hour at 30 °C 950 N at 100 rpm , force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	900 N at 100 rpm , during 30000 hour at 30°C 1200 N at 100 rpm , during 10000 hour at 30°C
Moment of inertia	0.51 kg.cm²
Continuous output torque	110 N.m at 100 rpm at 30 °C
Maximum output torque	176 N.m at 100 rpm at 30 °C
Product weight	3.1 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