

# Product data sheet

## Characteristics

# GBX080040052F

gearbox with straight teeth GBX- Ø 80 mm-  
reduction 40:1- < 14arcmin- 110 N.m



### Main

Range compatibility	Lexium 15 Lexium 32
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Gearbox external diameter	80 mm
Product compatibility	BSH0552...
Reduction ratio	40:1

### Complementary

Torsional backlash	< 14 arc.min
Torsional rigidity	6.5 N.m/arcmin
Housing colour	Black
Housing material	Black anodized aluminium
Shaft material	C 45
Additional information	Lubricated for life
Service life in hours	At 100 rpm at 30 °C
Efficiency	94 %
Mounting position	Any position
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	1200 N at 100 rpm, during 10000 hour at 30°C 900 N at 100 rpm, during 30000 hour at 30°C
Moment of inertia	0.39 g.cm <sup>2</sup>
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	2.6 kg

### Environment

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

Contractual warranty

---

Warranty period	18 months
-----------------	-----------

---