

# Product data sheet

## Characteristics

# GBX0800400554F

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



### Main

|                           |                   |
|---------------------------|-------------------|
| Range compatibility       | Lexium 32         |
| Product or component type | Planetary gearbox |
| Gear box type             | Straight teeth    |
| Device short name         | GBX               |
| Gearbox external diameter | 80 mm             |
| Product compatibility     | BSH0554...        |
| 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 %   |
| Maximum radial force Fr  | 650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C<br>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<br>900 N at 100 rpm, during 30000 hour at 30°C  |
| 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

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