

## Main

|                           |                                       |
|---------------------------|---------------------------------------|
| Range compatibility       | Lexium 05<br>Lexium 15                |
| Product or component type | Planetary gearbox with straight teeth |
| Device short name         | GBX                                   |
| Product compatibility     | BSH1002                               |
| Casing diameter           | 80 mm                                 |
| Reduction ratio           | 12:1                                  |
| Additional information    | Lubricated for life                   |

## Complementary

|                          |                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Torsional backlash       | < 14 °                                                                                                                                                                                         |
| Torsional rigidity       | 6.5 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  | 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   | 900 N at 100 rpm , during 30000 hour at 30°C<br>1200 N at 100 rpm , during 10000 hour at 30°C                                                                                                  |
| Moment of inertia        | 0.72 kg.cm <sup>2</sup>                                                                                                                                                                        |
| Continuous output torque | 120 N.m at 100 rpm at 30 °C                                                                                                                                                                    |
| Maximum output torque    | 192 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 at shaft output   |
| Ambient temperature for operation | -25...90 °C            |