

# Product datasheet

Specifications



gearbox with straight teeth GBX- Ø  
80 mm- reduction 25:1- < 14arcmin-  
110 N.m

GBX0800251401F

⚠ Discontinued on: 1 Aug 2022

⚠ Discontinued

## 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     | BSH1401...<br>BMH1401... |
| Reduction ratio           | 25:1                     |

## Complementary

|                            |                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum 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      | 30000 h 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                                                                                                                                                                  |
| Net weight                 | 2.6 kg                                                                                                                                                                                       |
| Compatibility code         | GBX                                                                                                                                                                                          |

## Environment

|                                   |                       |
|-----------------------------------|-----------------------|
| Noise level                       | 60 dB at 1 m, no-load |
| IP degree of protection           | Shaft output: IP54    |
| ambient temperature for operation | -25...90 °C           |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |