

Product datasheet

Specifications



gearbox with straight teeth GBX- Å~
160 mm- reduction 5:1- < 6arcmin-
450 N.m

GBX1600051402F

⚠ Discontinued on: 30 Jun 2023

⚠ Discontinued

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	160 mm
Product compatibility	BSH1402...
Reduction ratio	5:1

Complementary

Maximum torsional backlash	6 arc.min
Torsional rigidity	38 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	96 %
Mounting position	Any position
Maximum radial force Fr	4200 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C 6000 N at 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	6000 N at 100 rpm, during 30000 hour at 30°C 8000 N at 100 rpm, during 10000 hour at 30°C
moment of inertia	6.07 g.cm ²
Continuous output torque	450 N.m at 100 rpm at 30 °C
Maximum output torque	720 N.m at 100 rpm at 30 °C
Product weight	18 kg
Compatibility code	GBX

Environment

Noise level	70 dB at 1 m, no-load
-------------	-----------------------

IP degree of protection	Shaft output: IP54
--------------------------------	--------------------

ambient temperature for operation	-25...90 °C
--	-------------

Packing Units

Unit Type of Package 1	PCE
-------------------------------	-----

Number of Units in Package 1	1
-------------------------------------	---

Package 1 Height	26.0 cm
-------------------------	---------

Package 1 Width	45.0 cm
------------------------	---------

Package 1 Length	26.0 cm
-------------------------	---------

Package 1 Weight	19.0 kg
-------------------------	---------

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 Better



Materials and Substances

SCIP Number 7c9e597c-8ccc-4daf-95fb-5d67fc70d561

EU RoHS Directive [Compliant By Exemption](#)

PVC free Yes

Use Longer



Lifetime extension

Repair No

Use Again



Repack and remanufacture

End of life manual availability No need of specific recycling operations