



Your maxon drive

consists of:

Planetary Gearhead GP 32 C Ø32 mm, 1.0 - 6.0 Nm, Ceramic Version

Part number 166940

RE 30 Ø30 mm, Graphite Brushes, 60 Watt

Part number 268214

Encoder MR, Type L, 512 CPT, 3 Channels, with Line Driver

Part number 225785

Your Contact

maxon motor worldwide

http://www.maxongroup.com:80/maxon/view/content/contact_page

E-Mail: info@maxongroup.com

Internet: <http://www.maxongroup.com:80>

retail price:

0-4 Pieces	€576.46
5-19 Pieces	€458.37
20-49 Pieces	€380.64
from 50 Pieces	On Request

Terms and conditions

Planetary Gearhead GP 32 C Ø32 mm, 1.0 - 6.0 Nm, Ceramic Version

Part number 166940



General information

Gearhead type	GP
Outer diameter	32 mm
Version	Ceramic version

Gearhead Data

Reduction	66 : 1
Absolute reduction	16224/245
Max. motor shaft diameter	4 mm
Number of stages	3
Max. continuous torque	6 Nm
Max. intermittent torque	7.5 Nm
Direction of rotation, drive to output	=
Max. efficiency	70 %
Average backlash no load	1 °
Mass inertia	0.7 gcm ²
Gearhead length (L1)	43.1 mm
Max. transmittable power (continuous)	76 W
Max. transmittable power (intermittent)	95 W

Technical Data

Radial play	max. 0.14 mm, 5 mm from flange
Axial play	max. 0.4 mm
Max. radial load	200 N, 10 mm from flange
Max. axial load (dynamic)	120 N
Max. force for press fits	120 N
Max. continuous input speed	8000 rpm
Max. intermittent input speed	8000 rpm
Recommended temperature range	-40...+100 °C
Number of autoclave cycles	0

Product

Weight	190 g
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RE 30 Ø30 mm, Graphite Brushes, 60 Watt
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Values at nominal voltage

Nominal voltage	24 V
No load speed	8810 rpm
No load current	165 mA
Nominal speed	8050 rpm
Nominal torque (max. continuous torque)	85.6 mNm
Nominal current (max. continuous current)	3.47 A
Stall torque	1020 mNm
Stall current	39.3 A
Max. efficiency	87 %

Characteristics

Terminal resistance	0.611 Ω
Terminal inductance	0.119 mH
Torque constant	25.9 mNm/A
Speed constant	369 rpm/V
Speed / torque gradient	8.7 rpm/mNm
Mechanical time constant	3.05 ms
Rotor inertia	33.5 gcm ²

Thermal data

Thermal resistance housing-ambient	6 K/W
Thermal resistance winding-housing	1.7 K/W
Thermal time constant winding	16.3 s
Thermal time constant motor	593 s
Ambient temperature	-30...+100 °C
Max. winding temperature	+125 °C

Mechanical data

Bearing type	ball bearings
Max. speed	12000 rpm
Axial play	0.05 - 0.15 mm
Radial play	0.025 mm
Max. axial load (dynamic)	5.6 N
Max. force for press fits (static)	110 N
(static, shaft supported)	1200 N
Max. radial load	28 N, 5 mm from flange

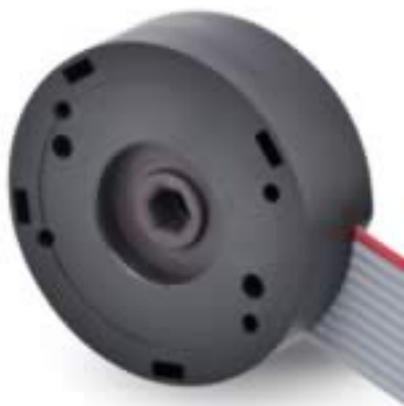
Other specifications

Number of pole pairs	1
Number of commutator segments	13
Number of autoclave cycles	0

Product

Weight	260 g
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Encoder MR, Type L, 512 CPT, 3 Channels, with Line Driver
Part number 225785



General information

Counts per turn	512
Number of channels	3
Line Driver	Yes
Max. mechanical speed	18750 rpm

Technical Data

Supply voltage Vcc	4.7...5.2 V
Driver used logic	TTL
Output current per channel	0...5 mA
Phase shift	90 °e
Phase shift, inaccuracy	45 °e
Index synchronized to AB	Yes
Max. moment of inertia of code wheel	1.7 gcm ²
Operating temperature	-25...+85 °C