



Your maxon drive

consists of:

Planetary Gearhead GP 32 A Ø32 mm, 0.75 - 4.5 Nm, Metal Version

Part number 166173

EC 45 flat Ø42.9 mm, brushless, 30 Watt, with Hall sensors

Part number 339281

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	€324.73
5-19 Pieces	€249.25
20-49 Pieces	€221.36
from 50 Pieces	On Request

Terms and conditions

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Part number 166173



General information

Gearhead type	GP
Outer diameter	32 mm
Version	Standard version

Gearhead Data

Reduction	190 : 1
Absolute reduction	12167/64
Max. motor shaft diameter	3 mm
Number of stages	3
Max. continuous torque	4.5 Nm
Max. intermittent torque	6.5 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)	25 W
Max. transmittable power (intermittent)	38 W

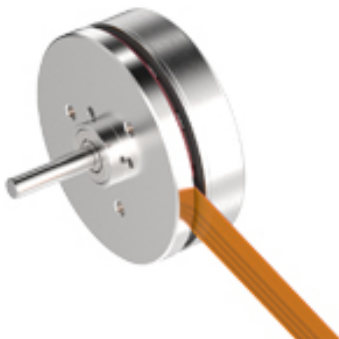
Technical Data

Bearing at output	ball bearing
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	6000 rpm
Max. intermittent input speed	6000 rpm
Recommended temperature range	-40...+100 °C
Extended temperature range	100...+100 °C
Number of autoclave cycles	0

Product

Weight	194 g
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Values at nominal voltage

Nominal voltage	24 V
No load speed	4390 rpm
No load current	81.8 mA
Nominal speed	3070 rpm
Nominal torque (max. continuous torque)	56.9 mNm
Nominal current (max. continuous current)	1.08 A
Stall torque	268 mNm
Stall current	5.27 A
Max. efficiency	77 %

Characteristics

Terminal resistance	4.55 Ω
Terminal inductance	1.61 mH
Torque constant	50.9 mNm/A
Speed constant	188 rpm/V
Speed / torque gradient	16.8 rpm/mNm
Mechanical time constant	16.3 ms
Rotor inertia	92.5 gcm ²

Thermal data

Thermal resistance housing-ambient	6.55 K/W
Thermal resistance winding-housing	3.92 K/W
Thermal time constant winding	10.3 s
Thermal time constant motor	288 s
Ambient temperature	-40...+100 °C
Max. winding temperature	+125 °C

Mechanical data

Bearing type	ball bearings
Max. speed	10000 rpm
Axial play	0 mm, at radial load < 5 N 0.14 mm, at radial load > 5 N
Max. axial load (dynamic)	4.8 N
Max. force for press fits (static)	53 N
(static, shaft supported)	1000 N
Max. radial load	18 N, 5 mm from flange

Other specifications

Number of pole pairs	8
Number of phases	3
Number of autoclave cycles	0

Product

Weight	75 g
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