

Your maxon drive

consists of:

Planetary Gearhead GP 52 C Ø52 mm, 4 - 30 Nm, Ceramic Version

Part number 223085

EC 90 flat Ø90 mm, brushless, 90 Watt, with Hall sensors

Part number 323772

Your Contact

maxon motor worldwide

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

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retail price:

1-4 Pieces	USD 696.01
5-19 Pieces	USD 604.13
20-49 Pieces	USD 501.01
from 50 Pieces	On Request

Terms and conditions

Planetary Gearhead GP 52 C Ø52 mm, 4 - 30 Nm, Ceramic Version

Part number 223085

General information

Gearhead type	GP
Outer diameter	52 mm
Version	C

Gearhead Data

Reduction	19 : 1
Absolute reduction	169/9
Max. motor shaft diameter	8 mm
Number of stages	2
Max. continuous torque	15 Nm
Max. intermittent torque	22.5 Nm
Direction of rotation, drive to output	=
Max. efficiency	83 %
Average backlash no load	0.8 °
Mass inertia	9.5 gcm ²
Gearhead length (L1)	65 mm
Max. transmittable power (continuous)	500 W
Max. transmittable power (intermittent)	740 W

Technical Data

Radial play	max. 0.06 mm, 12 mm from flange
Axial play	0 - 0.3 mm
Max. radial load	700 N, 12 mm from flange
Max. axial load (dynamic)	200 N
Max. force for press fits	500 N
Max. continuous input speed	6000 rpm
Max. intermittent input speed	6000 rpm
Recommended temperature range	-15...+80 °C
Extended temperature range	-40...+100 °C
Number of autoclave cycles	0

Product

Weight	620 g
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Values at nominal voltage

Nominal voltage	24 V
No load speed	3190 rpm
No load current	538 mA
Nominal speed	2590 rpm
Nominal torque (max. continuous torque)	444 mNm
Nominal current (max. continuous current)	6.06 A
Stall torque	4940 mNm
Stall current	70 A
Max. efficiency	83 %

Characteristics

Terminal resistance	0.343 Ω
Terminal inductance	0.264 mH
Torque constant	70.5 mNm/A
Speed constant	135 rpm/V
Speed / torque gradient	0.659 rpm/mNm
Mechanical time constant	21.1 ms
Rotor inertia	3060 gcm ²

Thermal data

Thermal resistance housing-ambient	1.57 K/W
Thermal resistance winding-housing	2.7 K/W
Thermal time constant winding	34.1 s
Thermal time constant motor	234 s
Ambient temperature	-40...+100 °C
Max. winding temperature	+125 °C

Mechanical data

Bearing type	ball bearings
Max. speed	5000 rpm
Axial play	0.14 mm
Max. axial load (dynamic)	12 N
Max. force for press fits (static)	180 N
(static, shaft supported)	8000 N
Max. radial load	68 N, 5 mm from flange

Other specifications

Number of pole pairs	12
Number of phases	3
Number of autoclave cycles	0

Product

Weight	600 g
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