

consists of:

Planetary Gearhead GP 13 A Ø13 mm, 0.02 - 0.35 Nm, Metal version

Part number 352369

A-max 12 Ø12 mm, Precious Metal Brushes CLL, 0.75 Watt, with cable

Part number 200937

Your Contact

maxon motor worldwide

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

E-Mail: info@maxonmotor.com

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

retail price:

1-4 Pieces	CHF 139.30
5-19 Pieces	CHF 118.70
20-49 Pieces	CHF 102.50
from 50 Pieces	On Request

Terms and conditions

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General information

Gearhead type	GP
Outer diameter	13 mm
Version	A

Gearhead Data

Reduction	3373 : 1
Absolute reduction	1252332576/371293
Max. motor shaft diameter	1.5 mm
Number of stages	5
Max. continuous torque	0.35 Nm
Max. intermittent torque	0.53 Nm
Direction of rotation, drive to output	=
Max. efficiency	62 %
Average backlash no load	2 °
Mass inertia	0.015 gcm ²
Gearhead length (L1)	31.6 mm
Max. transmittable power (continuous)	0.087 W
Max. transmittable power (intermittent)	0.13 W

Technical Data

Radial play	max. 0.055 mm, 6 mm from flange
Axial play	0.02 - 0.1 mm
Max. radial load	20 N, 6 mm from flange
Max. axial load (dynamic)	8 N
Max. force for press fits	100 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	23 g
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Values at nominal voltage

Nominal voltage	3 V
No load speed	13900 rpm
No load current	21.1 mA
Nominal speed	5980 rpm
Nominal torque (max. continuous torque)	0.897 mNm
Nominal current (max. continuous current)	0.465 A
Stall torque	1.58 mNm
Stall current	0.789 A
Max. efficiency	70 %

Characteristics

Terminal resistance	3.8 Ω
Terminal inductance	0.085 mH
Torque constant	2.01 mNm/A
Speed constant	4760 rpm/V
Speed / torque gradient	9030 rpm/mNm
Mechanical time constant	20.6 ms
Rotor inertia	0.218 gcm ²

Thermal data

Thermal resistance housing-ambient	44.5 K/W
Thermal resistance winding-housing	15 K/W
Thermal time constant winding	4.41 s
Thermal time constant motor	245 s
Ambient temperature	-30...+65 °C
Max. winding temperature	+85 °C

Mechanical data

Bearing type	sleeve bearing
Max. speed	19000 rpm
Axial play	0.05 - 0.15 mm
Radial play	0.012 mm
Max. axial load (dynamic)	0.15 N
Max. force for press fits (static) (static, shaft supported)	15 N 70 N
Max. radial load	0.4 N, 4 mm from flange

Other specifications

Number of pole pairs	1
Number of commutator segments	7
Number of autoclave cycles	0

Product

Weight	11 g
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