

consists of:

**Planetary Gearhead GP 22 C Ø22 mm, 0.5 - 2.0 Nm**

Part number 143976

**EC 32 flat Ø32 mm, brushless, 6 Watt, with Hall sensors**

Part number 339260

**Your Contact**

maxon motor worldwide

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E-Mail: [info@maxonmotor.com](mailto:info@maxonmotor.com)

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retail price:

<b>1-4 Pieces</b>	<b>CHF 179.80</b>
<b>5-19 Pieces</b>	<b>CHF 148.80</b>
<b>20-49 Pieces</b>	<b>CHF 123.60</b>
<b>from 50 Pieces</b>	<b>On Request</b>

Terms and conditions

**Planetary Gearhead GP 22 C Ø22 mm, 0.5 - 2.0 Nm**  
Part number 143976



**General information**

Gearhead type	GP
Outer diameter	22 mm
Version	Ceramic version

**Gearhead Data**

Reduction	19 : 1
Absolute reduction	3249/169
Max. motor shaft diameter	3.2 mm
Number of stages	2
Max. continuous torque	0.6 Nm
Max. intermittent torque	0.9 Nm
Direction of rotation, drive to output	=
Max. efficiency	70 %
Average backlash no load	1.2 °
Mass inertia	0.4 gcm <sup>2</sup>
Gearhead length (L1)	32.2 mm
Max. transmittable power (continuous)	26 W
Max. transmittable power (intermittent)	40 W

**Technical Data**

Radial play	max. 0.2 mm, 10 mm from flange
Axial play	0 - 0.2 mm
Max. radial load	70 N, 10 mm from flange
Max. axial load (dynamic)	100 N
Max. force for press fits	100 N
Max. continuous input speed	8000 rpm
Max. intermittent input speed	8000 rpm
Recommended temperature range	-20...+100 °C
Extended temperature range	-35...+100 °C
Number of autoclave cycles	0

**Product**

Weight	55 g
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## EC 32 flat Ø32 mm, brushless, 6 Watt, with Hall sensors

Part number 339260



### Values at nominal voltage

Nominal voltage	12 V
No load speed	7950 rpm
No load current	75.5 mA
Nominal speed	3180 rpm
Nominal torque (max. continuous torque)	7.8 mNm
Nominal current (max. continuous current)	0.603 A
Stall torque	15.3 mNm
Stall current	1.16 A
Max. efficiency	56 %

### Characteristics

Terminal resistance	10.4 $\Omega$
Terminal inductance	2.04 mH
Torque constant	13.2 mNm/A
Speed constant	724 rpm/V
Speed / torque gradient	568 rpm/mNm
Mechanical time constant	82.7 ms
Rotor inertia	13.9 gcm <sup>2</sup>

### Thermal data

Thermal resistance housing-ambient	8.59 K/W
Thermal resistance winding-housing	6.26 K/W
Thermal time constant winding	3.11 s
Thermal time constant motor	23 s
Ambient temperature	-40...+100 °C
Max. winding temperature	+125 °C

### Mechanical data

Bearing type	ball bearings
Max. speed	12000 rpm
Axial play	0 - 0.6 mm
Max. axial load (dynamic)	4.8 N
Max. force for press fits (static)	45 N
(static, shaft supported)	1000 N
Max. radial load	10 N, 15 mm from flange

### Other specifications

Number of pole pairs	4
Number of phases	3
Number of autoclave cycles	0

### Product

Weight	32 g
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