

consists of:

Planetary Gearhead GP 32 HP Ø32 mm, 4.0 - 8.0 Nm, Metal Version, High Power

Part number 326659

EC-4pole 30 Ø30 mm, brushless, 200 Watt

Part number 305013

Encoder ENC24 2RMHF, 3000 and 5000 Impulse

Part number 461213

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 1,243.90
5-19 Pieces	CHF 1,029.40
20-49 Pieces	CHF 860.40
from 50 Pieces	On Request

Terms and conditions

Planetary Gearhead GP 32 HP Ø32 mm, 4.0 - 8.0 Nm, Metal Version, High Power

Part number 326659



General information

Gearhead type	GP
Outer diameter	32 mm
Version	HP

Gearhead Data

Reduction	18 : 1
Absolute reduction	624/35
Max. motor shaft diameter	6 mm
Number of stages	2
Max. continuous torque	4 Nm
Max. intermittent torque	6 Nm
Direction of rotation, drive to output	=
Max. efficiency	75 %
Average backlash no load	0.8 °
Mass inertia	0.8 gcm ²
Gearhead length (L1)	48.1 mm
Max. transmittable power (continuous)	190 W
Max. transmittable power (intermittent)	280 W

Technical Data

Radial play	max. 0.14 mm, 10 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	170 g
--------	-------

EC-4pole 30 Ø30 mm, brushless, 200 Watt

Part number 305013



Values at nominal voltage

Nominal voltage	24 V
No load speed	16700 rpm
No load current	728 mA
Nominal speed	15900 rpm
Nominal torque (max. continuous torque)	135 mNm
Nominal current (max. continuous current)	10.5 A
Stall torque	3220 mNm
Stall current	236 A
Max. efficiency	89 %

Characteristics

Terminal resistance	0.102 Ω
Terminal inductance	0.016 mH
Torque constant	13.6 mNm/A
Speed constant	700 rpm/V
Speed / torque gradient	5.21 rpm/mNm
Mechanical time constant	1.82 ms
Rotor inertia	33.3 gcm ²

Thermal data

Thermal resistance housing-ambient	5.3 K/W
Thermal resistance winding-housing	0.209 K/W
Thermal time constant winding	2.11 s
Thermal time constant motor	848 s
Ambient temperature	-20...+100 °C
Max. winding temperature	+155 °C

Mechanical data

Bearing type	ball bearings
Max. speed	25000 rpm
Axial play	0 - 0.14 mm
Max. axial load (dynamic)	5.5 N
Max. force for press fits (static)	73 N
(static, shaft supported)	1300 N
Max. radial load	25 N, 5 mm from flange

Other specifications

Number of pole pairs	2
Number of phases	3
Number of autoclave cycles	0

Product

Weight	300 g
--------	-------

Encoder ENC24 2RMHF, 3000 and 5000 Impulse

Part number 461213



General information

Counts per turn	5000
Number of channels	3
Line Driver	DS26C31T
Max. length of encoder housing	22 mm
Max. electrical speed	2400 rpm
Max. mechanical speed	12000 rpm

Technical Data

Supply voltage Vcc	4.5...30 V
Output signal	INC
Driver used logic	Differential, EIA RS 422
Output current per channel	-30...30 mA
Signal rise time	10 ns
Measurement condition for signal rise time	CL=25pF, RL=1kOhm, T
Signal fall time	10 ns
Measurement condition for signal fall time	CL=25pF, RL=1kOhm, T=
Direction of rotation	A vor B CW
Index position	A low & B low
Index synchronized to AB	Yes
Max. current draw at standstill	60 mA
Max. moment of inertia of code wheel	1 gcm ²
Operating temperature	-40...+85 °C
Orientation of encoder output to motor flange	0 °

Product

Weight	60 g
--------	------