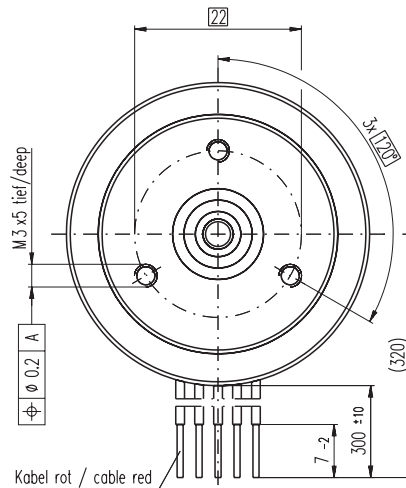
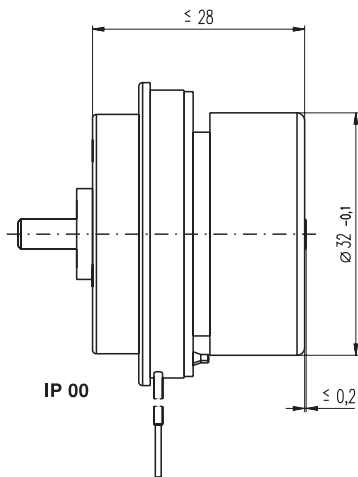
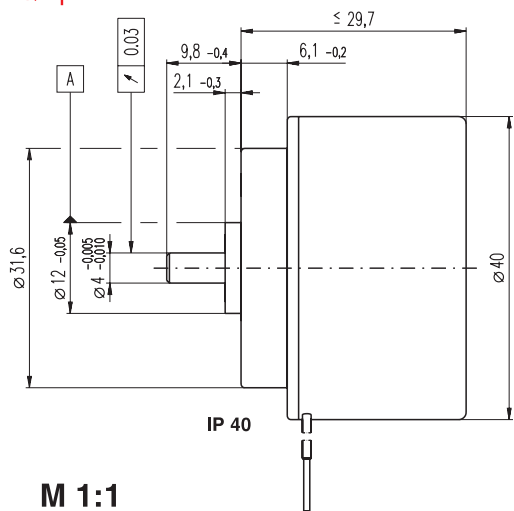


EC 32 flat brushless, 15 Watt, with integrated electronics

NEW

1-Q-speed controller

maxon flat motor



M 1:1

- Stock program
- Standard program
- Special program (on request)

IP 40 (with cover)
IP 00 (without cover)

Order Number

| | 2 wire | 5 wire |
|-----------------------|--------|--------|
| IP 40 (with cover) | 353400 | 353401 |
| IP 00 (without cover) | 353324 | 353325 |
| | | 353399 |
| | | 349801 |

Motor Data (provisional)

| Values at nominal voltage | | | | |
|---------------------------|---|---------|-------------------|---------------|
| 1 | Nominal voltage | V | 24 | 24 |
| 2 | No load speed | rpm | 3000 | 6000 |
| 3 | No load current | mA | 43 | 86 |
| 4 | Nominal speed | rpm | 3000 | 6000 |
| 5 | Nominal torque (max. continuous torque) | mNm | 26.2 | 24 |
| 6 | Nominal current (max. continuous current) | A | 0.56 | 0.95 |
| 33 | Max. torque | mNm | 34.4 | 34 |
| 34 | Max. current | A | 1.2 | 1.6 |
| 9 | Max. efficiency | % | 54 | 64 |
| Characteristics | | | | |
| 35 | Control variable | Speed | Speed | Speed |
| 36 | Supply voltage + V _{CC} | V | 10 ... 28 | 10 ... 28 |
| 37 | Speed set value input | V | = V _{CC} | 0.33 ... 10.8 |
| 38 | Scale speed set value input | rpm / V | 125 | 250 |
| 39 | Turning speed range | rpm | 1250 ... 3500 | 2500 ... 7000 |
| 40 | Max. acceleration | rpm / s | 3000 | 6000 |

Specifications

- Thermal data**
- 17 Thermal resistance housing-ambient 7.6 K / W
 - 18 Thermal resistance winding-housing 5.9 K / W
 - 19 Thermal time constant winding 10.3 s
 - 20 Thermal time constant motor 72.6 s
 - 21 Ambient temperature -40 ... +85°C
 - 22 Max. permissible winding temperature +125°C
 - 41 Max. temperature of electronics +105°C
- Mechanical data (preloaded ball bearings)**
- 16 Rotor inertia 35 gcm²
 - 24 Axial play at axial load < 2 N 0 mm
 - > 2 N 0.14 mm
 - 25 Radial play preloaded
 - 26 Max. axial load (dynamic) 6.8 N
 - 27 Max. axial load (static) 70 N
 - (static, shaft supported) 1000 N
 - 28 Max. radial loading, 7.5 mm from flange 32 N
- Other specifications**
- 31 Weight of motor 91 g
 - 32 Direction of rotation Clockwise (CW)

Values listed in the table are nominal.

Protective functions

Overload protection, blockage protection, inverse-polarity protection, thermal overload protection, low/high voltage cut-off

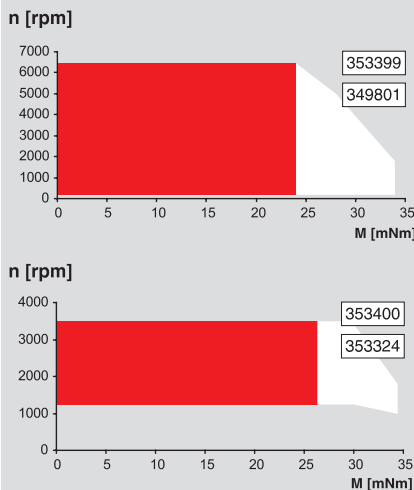
Connection 2 wire version (Cable AWG 24)

- red + V_{CC} 10 ... 28 VDC
- black GND

Connection 5 wire version (Cable AWG 24)

- red + V_{CC} 10 ... 28 VDC
- black GND
- white Speed set value input
- green Monitor n (6 pulses per revolution)
- grey Disable (2.4 ... 28 VDC)

Operating Range



Comments

Continuous operation
The drive can be operated with a speed controller and, taking account of the given thermal resistance (fig. 17 and 18) at an ambient temperature of 25°C, does not exceed the maximum permissible operating temperatures.

Overload range
The drive reaches these operating points. Speed may vary from the set value. The overload protection shuts down the drive in the event of sustained overload.

maxon Modular System

Overview on page 16 - 21

Planetary Gearhead

∅32 mm
0.75 - 4.5 Nm
Page 239

Spur Gearhead

∅38 mm
0.1 - 0.6 Nm
Page 243

