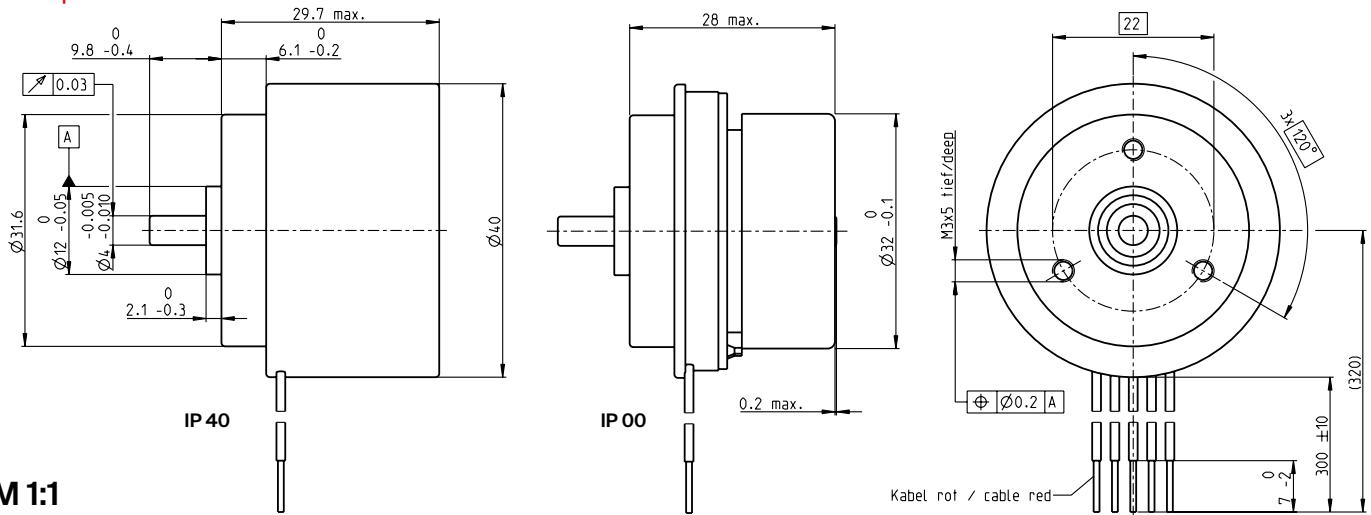


EC 32 flat brushless, 15 watt, with integrated electronics

1-Q-Speed Controller

EC flat



M 1:1

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

		Part Numbers			
		2 wire version		5 wire version	
				Enable	Direction
IP 40 (with cover)		353400	353401	353399	370418
IP 00 (without cover)		353324	353325	349801	370417

Motor Data					
Values at nominal voltage					
1 Nominal voltage	V	24	24	24	24
2 No load speed	rpm	3000	6000	6000	6000
3 No load current	mA	44.8	84.6	84.6	84.6
4 Nominal speed	rpm	3000	6000	6000	6000
5 Nominal torque (max. continuous torque)	mNm	18.8	18.6	18.6	18.6
6 Nominal current (max. continuous current)	A	0.44	0.741	0.741	0.741
33 Max. torque	mNm	35.8	35.8	35.8	35.8
34 Max. current	A	1.6	1.6	1.6	1.6
9 Max. efficiency	%	58	66	66	66
Characteristics					
35 Type of control		Speed	Speed	Speed	Speed
36 Supply voltage +V _{CC}	V	10...28	10...28	10...28	10...28
37 Speed set value input	V	= V _{CC}	= V _{CC}	0.33...10.8	0.33...10.8
38 Scale speed set value input	rpm/V	125	250	600	600
39 Speed range	rpm	1250...3500	2500...7000	200...6480	200...6480
40 Max. acceleration	rpm/s	3000	6000	6000	6000

Specifications	Operating Range	Comments
Thermal data 17 Thermal resistance housing-ambient 7.24 K/W 18 Thermal resistance winding-housing 4.99 K/W 19 Thermal time constant winding 8.69 s 20 Thermal time constant motor 80.5 s 21 Ambient temperature -40...+85°C 22 Max. winding temperature +125°C 41 Max. temperature of electronics +105°C Mechanical data (preloaded ball bearings) 16 Rotor inertia 35 gcm ² 24 Axial play at axial load < 7.0 N 0 mm > 7.0 N 0.14 mm 25 Radial play preloaded 6.8 N 26 Max. axial load (dynamic) 95 N 27 Max. force for press fits (static) (static, shaft supported) 1000 N 28 Max. radial load, 5 mm from flange 37 N Other specifications 31 Weight of motor 91 g 32 Direction of rotation Clockwise (CW)		<p>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.</p> <p>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.</p>

- 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 (Type Enable) or sense of direction (Type Direction)

maxon Modular System Details on catalog page 46

Planetary Gearhead
 Ø32 mm
 0.75 - 6 Nm
 Page 394/398

Spur Gearhead
 Ø38 mm
 0.1 - 0.6 Nm
 Page 404