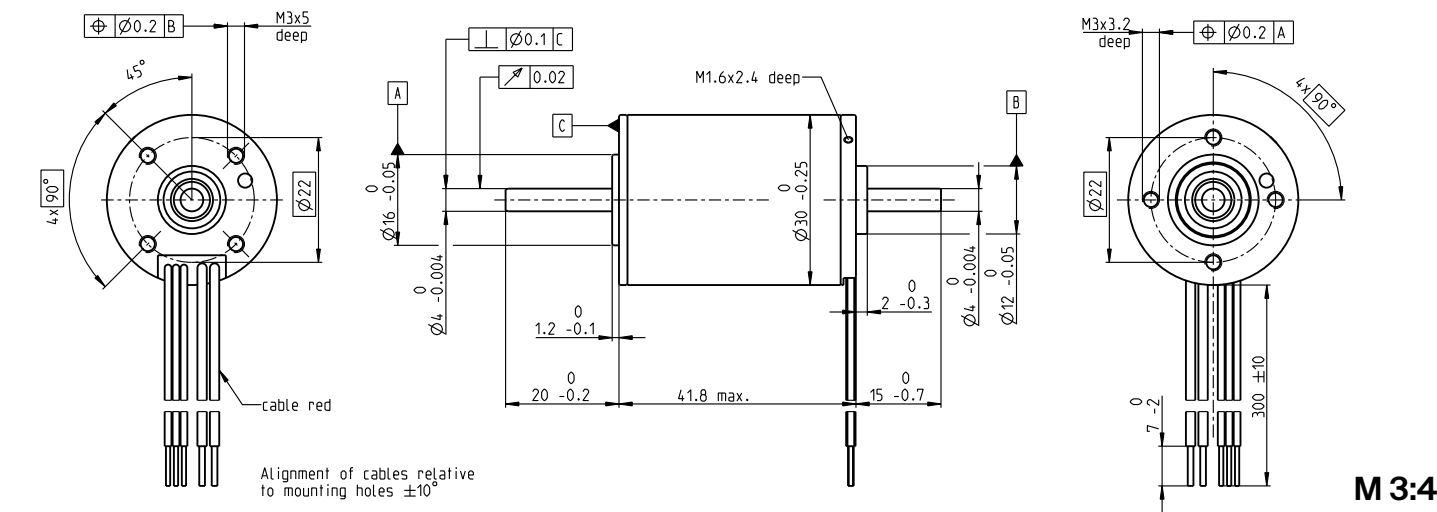


EC-i 30 Ø30 mm brushless, 20 watt, with integrated electronics

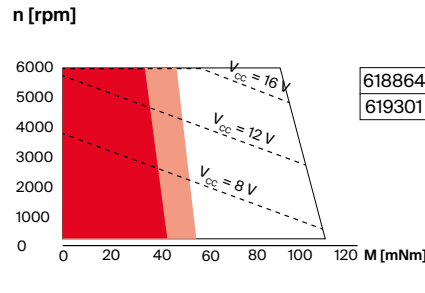
4-Q-Speed Controller



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

Part numbers	
5 wire version	
Enable	Direction
618864	619301

Motor data (provisional)			
Values at nominal voltage			
1 Nominal voltage	V	24	24
2 No load speed	rpm	6000	6000
3 No load current	mA	107	107
4 Nominal speed	rpm	6000	6000
5 Nominal torque	mNm	32.6	32.6
6 Nominal current (max. continuous current)	A	1.19	1.19
33 Max. torque	mNm	105	105
34 Max. current	A	6.5	6.5
9 Max. efficiency	%	75.4	75.4
Characteristics			
35 Type of control	Speed	Speed	
36 Supply voltage +V _{CC}	V	8...28	8...28
37 Speed set value input	V	0.42...10.1	0.42...10.1
38 Scale speed set value input	rpm/V	600	600
39 Speed range	rpm	250...6060	250...6060
40 Max. acceleration	rpm/s	6000	6000

Specifications	Operating range	Comments
Thermal data	n [rpm]	
17 Thermal resistance housing-ambient	13.0 K/W	
18 Thermal resistance winding-housing	5.9 K/W	
19 Thermal time constant winding	34.1 s	
20 Thermal time constant motor	1030 s	
21 Ambient temperature	-40...+85°C	
22 Max. winding temperature	+155°C	
41 Max. temperature of electronics	100°C	
Mechanical data (preloaded ball bearings)		
16 Rotor inertia	6.69 gcm ²	
24 Axial play at axial load < 9.0 N	0 mm	
> 9.0 N	0.14 mm	
25 Radial play	preloaded	
26 Max. axial load (dynamic)	9 N	
27 Max. force for press fits (static)	48.8 N	
(static, shaft supported)	2510 N	
28 Max. radial load, 10 mm from flange	30 N	
Other specifications	Modular system	Details on catalog page 52
31 Weight of motor	Gear	
32 Direction of rotation	430_GP 32 C	

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 5 wire version (Cable AWG 20/24)
red +V_{CC} 8...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)