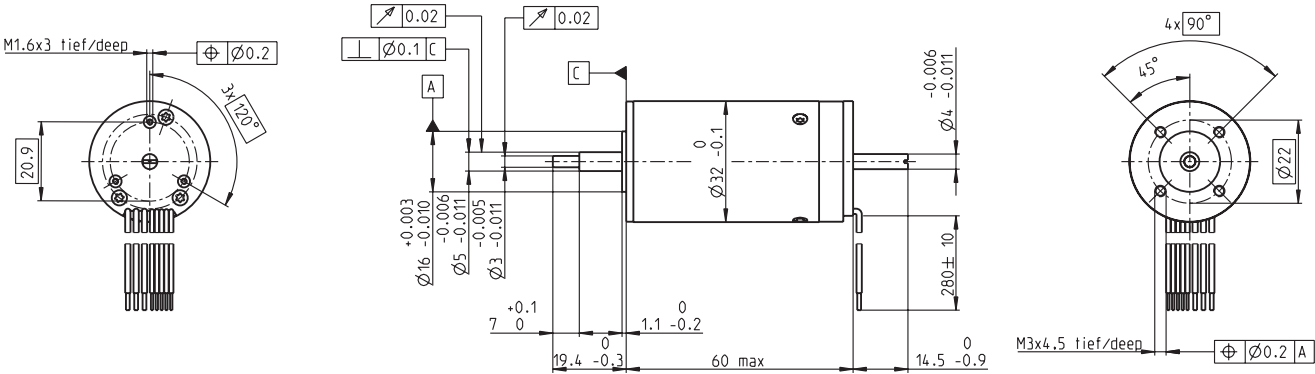


EC 32 Ø32 mm, brushless, 80 Watt, C€ approved



M 1:2

Stock program

Motor Data			
Values at nominal voltage			
1 Nominal voltage	V		24
2 No load speed	rpm		11000
3 No load current	mA		199
4 Nominal speed	rpm		9460
5 Nominal torque (max. continuous torque)	mNm		46.9
6 Nominal current (max. continuous current)	A		2.44
7 Stall torque	mNm		355
8 Starting current	A		17.3
9 Max. efficiency	%		80
Characteristics			
10 Terminal resistance phase to phase	Ω		1.39
11 Terminal inductance phase to phase	mH		0.226
12 Torque constant	mNm/A		20.5
13 Speed constant	rpm/V		465
14 Speed/torque gradient	rpm/mNm		31.5
15 Mechanical time constant	ms		6.59
16 Rotor inertia	gcm ²		20



Specifications		
Thermal data		
17 Thermal resistance housing-ambient	5.4 K/W	
18 Thermal resistance winding-housing	2.5 K/W	
19 Thermal time constant winding	14.8 s	
20 Thermal time constant motor	1180 s	
21 Ambient temperature	-20...+100°C	
22 Max. permissible winding temperature	+125°C	
Mechanical data (preloaded ball bearings)		
23 Max. permissible speed ¹⁾	25000 rpm	
24 Axial play at axial load < 8 N	0 mm	
	> 8 N	max. 0.14 mm
25 Radial play	preloaded	
26 Max. axial load (dynamic)	5.6 N	
27 Max. force for press fits (static) (static, shaft supported)	98 N	
28 Max. radial loading, 5 mm from flange	1200 N	
	28 N	
Other specifications		
29 Number of pole pairs	1	
30 Number of phases	3	
31 Weight of motor	270 g	

Values listed in the table are nominal.

Connection motor (Cable AWG 22)
red Motor winding 1
black Motor winding 2
white Motor winding 3
Connection sensors (Cable AWG 26)¹⁾
green V_{Hall} 4.5...24 VDC
blue GND
red/grey Hall sensor 1
black/grey Hall sensor 2
white/grey Hall sensor 3

¹⁾ Not lead through in combination with resolver.

