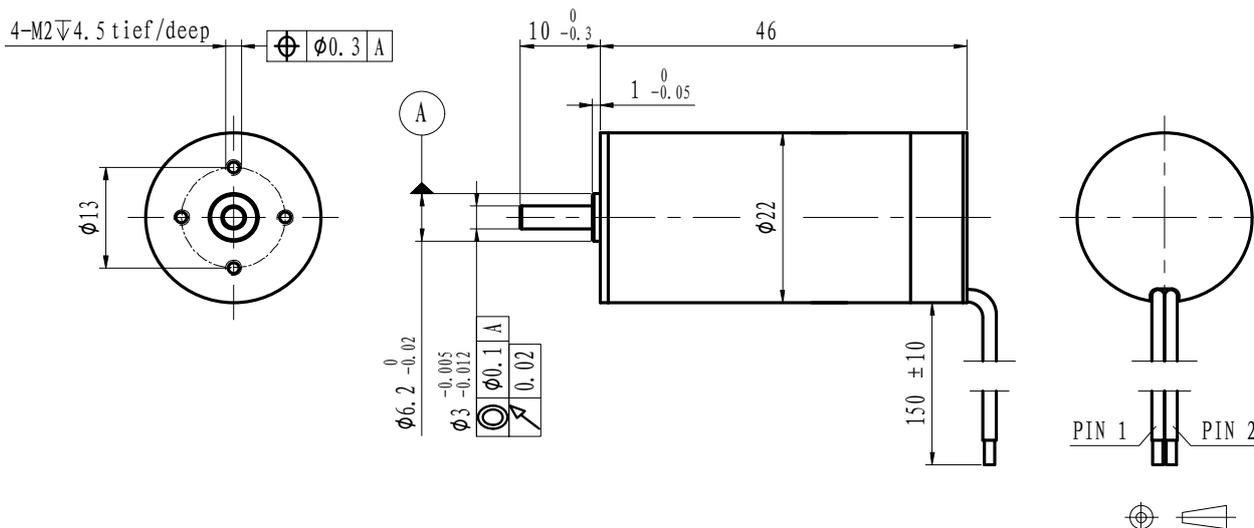


ECD series. Slotless Brushless DC Motor with int. controller

ECD2246. $\Phi 22\text{mm} \times 46\text{mm}$

vishan 唯川

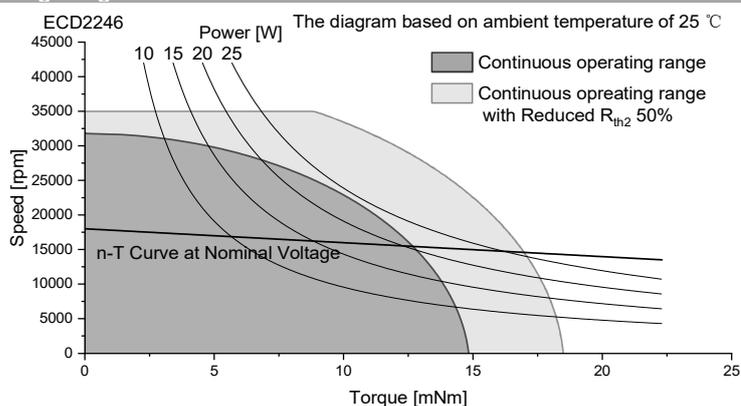


M 1:1

With hall sensor		ECD2246S-...	1212	2416
Motor data				
Values at nominal voltage				
1	Nominal voltage	V	12	24
2	No load speed	rpm	11570	15627
3	No load current	mA	170	140
4	Nominal speed	rpm	10085	14173
5	Nominal torque	mNm	8	8
6	Nominal current	A	1.00	0.70
7	Stall torque	mNm	62.34	85.96
8	Stall current	A	6.63	6.14
9	Max. efficiency	%	70.5	72.1
10	Supply voltage +Vcc	V	10.28	10.28
11	Direction of rotation		CW	CW
12	Torque constant	mNm/A	9.65	14.33
13	Speed constant	rpm/V	990	666
14	Speed/torque gradient	rpm/mNm	186	182
15	Mechanical time constant	ms	4.5	4.4
16	Rotor inertia	gcm ²	2.3	2.3

17	Thermal resistance housing-ambient	12.7 K/W
18	Thermal resistance winding-housing	5.0 K/W
19	Thermal time constant winding	12 s
20	Thermal time constant motor	420 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	35000 rpm
24	Axial play at axial load	<4 N 0 mm
		>4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	79 g

Operating Range



Controller features	
Sensor, Open loop, I _{max} < 1.5A	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection

Conection	PTFE	
Pin 1 +VCC	AWG24	red
Pin 2 GND	AWG24	black

Caution:

Incorrect lead connection will damage the controller!

Configuration

Function: On&Off/Direction/Speed control/Brake
 Speed closed&open-loop Control/Speed feedback
 Performance: Customized in the continuous operating range
 Ball bearing: Preload
 Flange: Standard frange front&back/customize the frange
 Shaft: Length/Diameter/Cut face
 Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length
 Connector: JST/MOLEX/TE

More:

Please contact our sales engineers