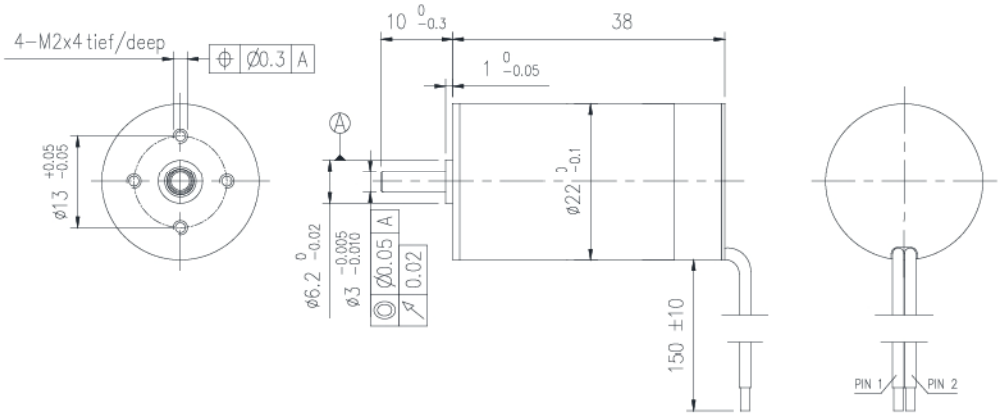
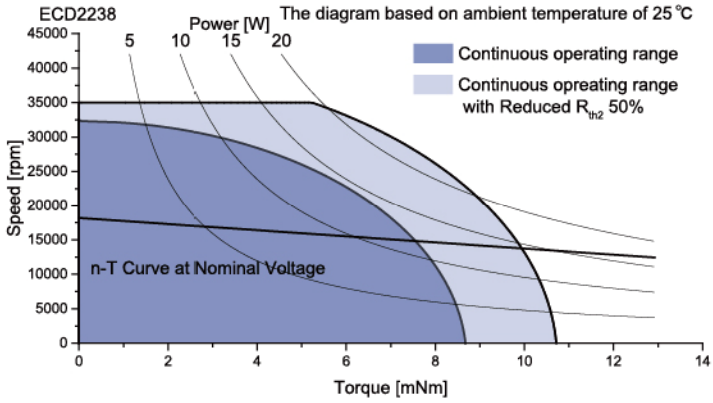


M 1.5:1

With hall sensor ECD2238S-...		1218	1818	2418
Motor data				
Values at nominal voltage				
1 Nominal voltage	V	12	18	24
2 No load speed	rpm	18247	18053	18180
3 No load current	mA	155	103	86
4 Nominal speed	rpm	15804	15660	15497
5 Nominal torque	mNm	6	6	6
6 Nominal current	A	1.13	0.75	0.57
7 Stall torque	mNm	44.8	45.3	40.7
8 Stall current	A	7.44	4.96	3.39
9 Max. efficiency	%	73.2	73.3	70.7
10 Supply voltage +Vcc	V	10..28	10..28	10..28
11 Direction of ratation		CW	CW	CW
12 Torque constant	mNm/A	6.15	9.32	12.3
13 Speed constant	rpm/V	1553	1024	777
14 Speed/torque gradient	rpm/mNm	407	399	447
15 Mechanical time constant	ms	6.4	6.2	7.0
16 Rotor inertia	gcm^2	1.5	1.5	1.5
17 Thermal resistance housing-ambient	15.2 K/W			
18 Thermal resistance winding-housing	6.0 K/W			
19 Thermal time constant winding	11 s			
20 Thermal time constant motor	383 s			
21 Ambient temprature	-40...+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	63 g			

Operating Range



Controller features	
Sensor, Open loop, Imax < 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 within the continuous operating range
Shaft: Length/Diameter/Cut face
Ball bearing: Preload
Flange: Standard frange front&back/customize the frange
Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length
Connector: JST/MOLEX/TE

More :
Please contact our sales engineers