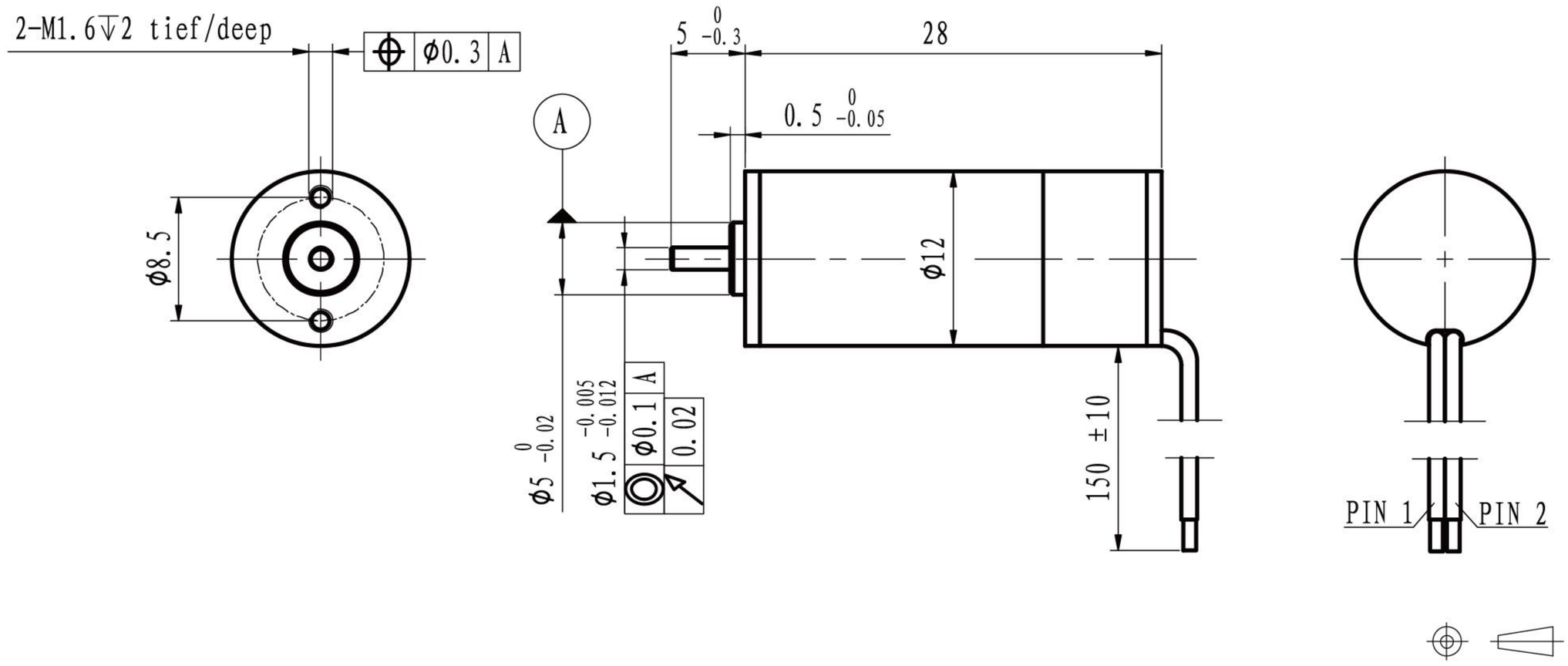
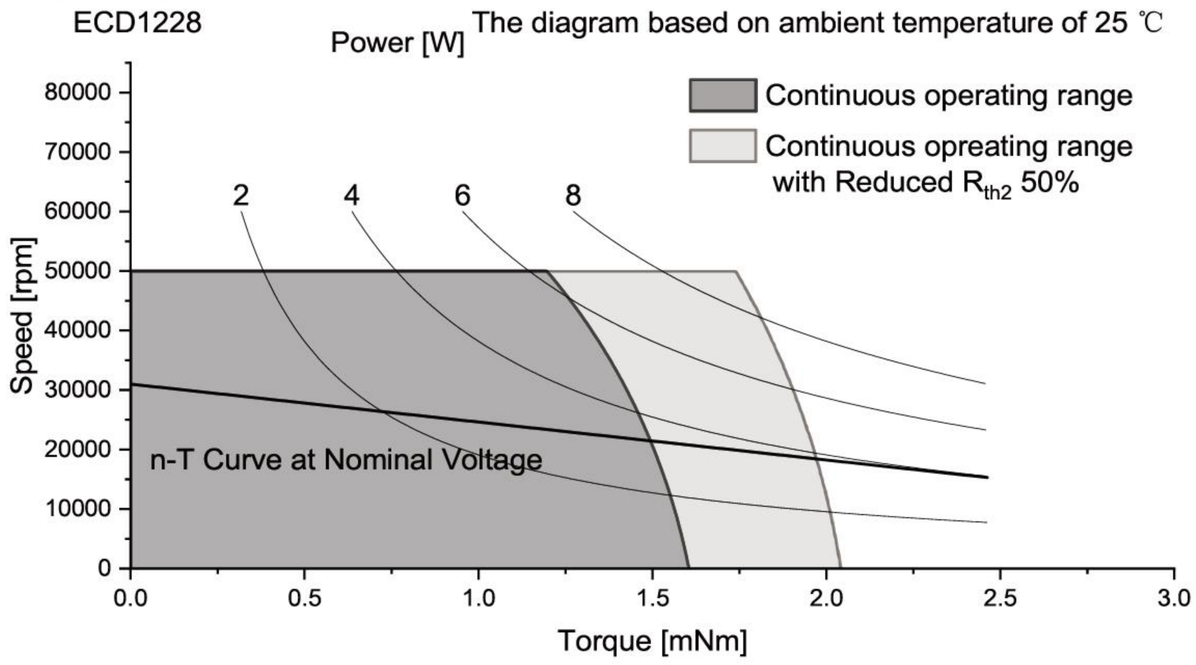


	Sensorless	ECD1228L-…	0631
Motor data			
Values at nominal voltage			
1	Nominal voltage	V	6
2	No load speed	rpm	31000
3	No load current	mA	140
4	Nominal speed	rpm	27755
5	Nominal torque	mNm	0.5
6	Nominal current	A	0.42
7	Stall torque	mNm	4.78
8	Stall current	A	2.86
9	Max. efficiency	%	60.6
10	Supply voltage +Vcc	V	4.5..7
11	Direction of ratation		CW
12	Torque constant	mNm/A	1.76
13	Speed constant	rpm/V	5433
14	Speed/torque gradient	rpm/mNm	6491
15	Mechanical time constant	ms	11.6
16	Rotor inertia	gcm^2	0.17
17	Thermal resistance housing-ambient	38.3 K/W	
18	Thermal resistance winding-housing	9.6 K/W	
19	Thermal time constant winding	5 s	
20	Thermal time constant motor	196 s	
21	Ambient temprature	-30…+100℃	
22	Max. permissible winding temperature	+125℃	
23	Max. permissible speed	50000 rpm	
24	Axial play at axial load <0.8 N	0 mm	
	>0.8 N	max. 0.3 mm	
25	Radial play	preloaded	
26	Max. axial load (dynamic)	0.3	
27	Max.force for press fits (static)	11N	
	(static, shaft supported)	200 N	
28	Max. radial loading, 5mm from flange	4.3 N	
29	Number of pole pairs	1	
30	Number of phases	3	
31	Weight of motor	12.2 g	

Operating Range



Controller features	
Sensor, Open loop, Imax < 0.5A	
Overload protection, Stall protection	
Max. temperature of electronics	+105℃

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