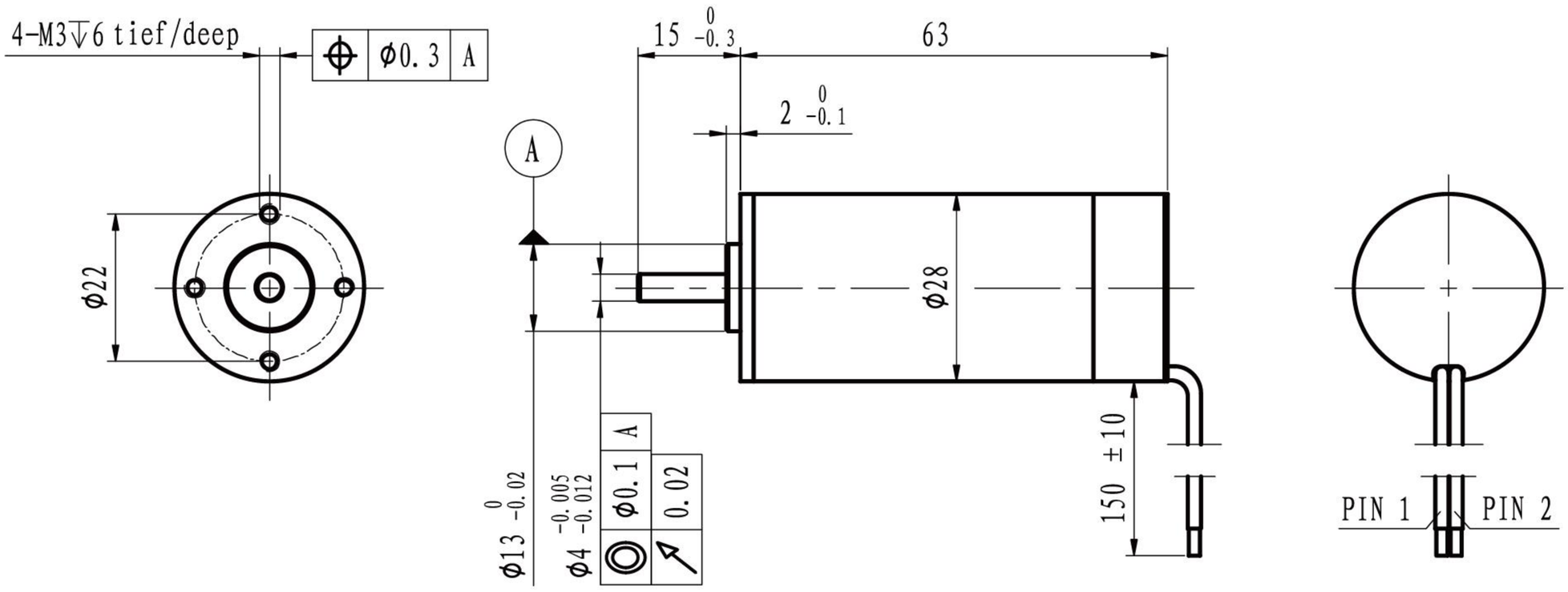
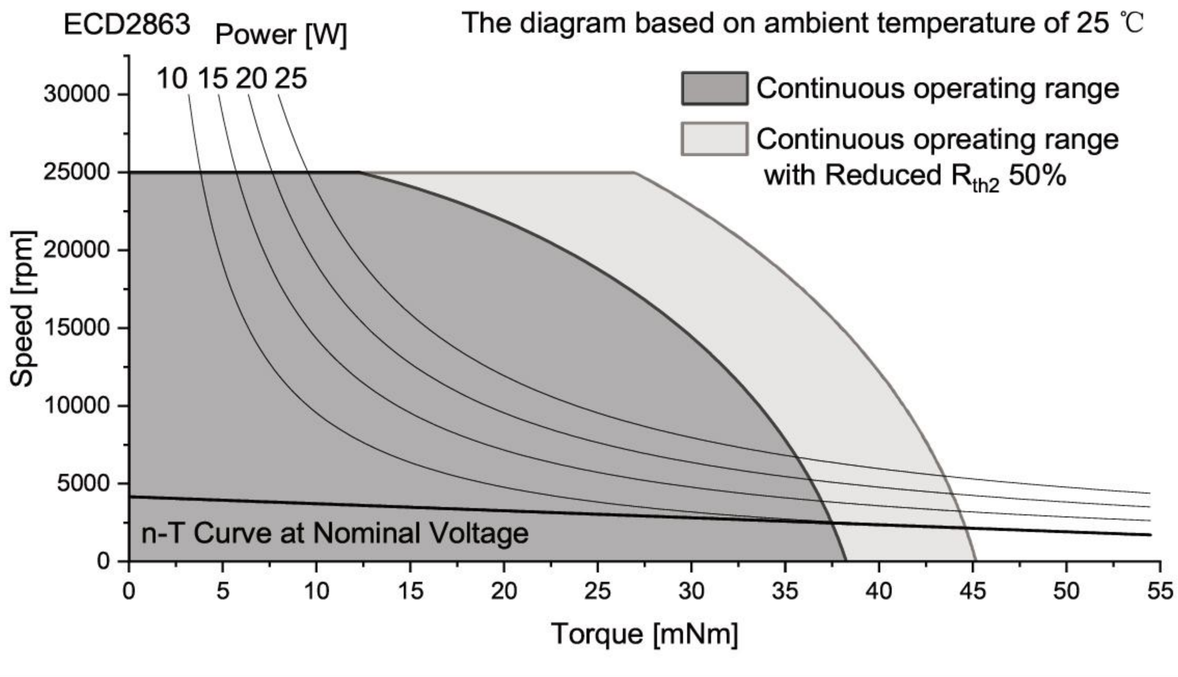


M 1:1.5

	With hall sensor	ECD2863S-…	1204	2404
Motor data				
Values at nominal voltage				
1	Nominal voltage	V	12	24
2	No load speed	rpm	4168	4163
3	No load current	mA	70	60
4	Nominal speed	rpm	3264	3033
5	Nominal torque	mNm	25	25
6	Nominal current	A	0.99	0.53
7	Stall torque	mNm	115.29	92.11
8	Stall current	A	4.33	1.79
9	Max. efficiency	%	76.2	66.7
10	Supply voltage +Vcc	V	4.5..7	8..13
11	Direction of ratation		CW	CW
12	Torque constant	mNm/A	27.05	53.21
13	Speed constant	rpm/V	353	179
14	Speed/torque gradient	rpm/mNm	36	45
15	Mechanical time constant	ms	3.2	4.0
16	Rotor inertia	gcm^2	8.5	8.5

17	Thermal resistance housing-ambient	7.1 K/W
18	Thermal resistance winding-housing	5 K/W
19	Thermal time constant winding	51 s
20	Thermal time constant motor	552 s
21	Ambient temprature	-30…+100℃
22	Max. permissible winding temperature	+150℃
23	Max. permissible speed	25000 rpm
24	Axial play at axial load <8 N	0 mm
	>8 N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	7.5 N
27	Max.force for press fits (static)	100 N
	(static, shaft supported)	2000 N
28	Max. radial loading, 5mm from flange	25 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	188 g

Operating Range



Controller features	
Sensor, Open loop, Imax < 1.8A	
Overload protection, Stall protection	
Max. temperature of electronics	+105℃

Connection

Conection		PTFE	
Pin 1	+VCC	AWG20	red
Pin 2	GND	AWG20	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