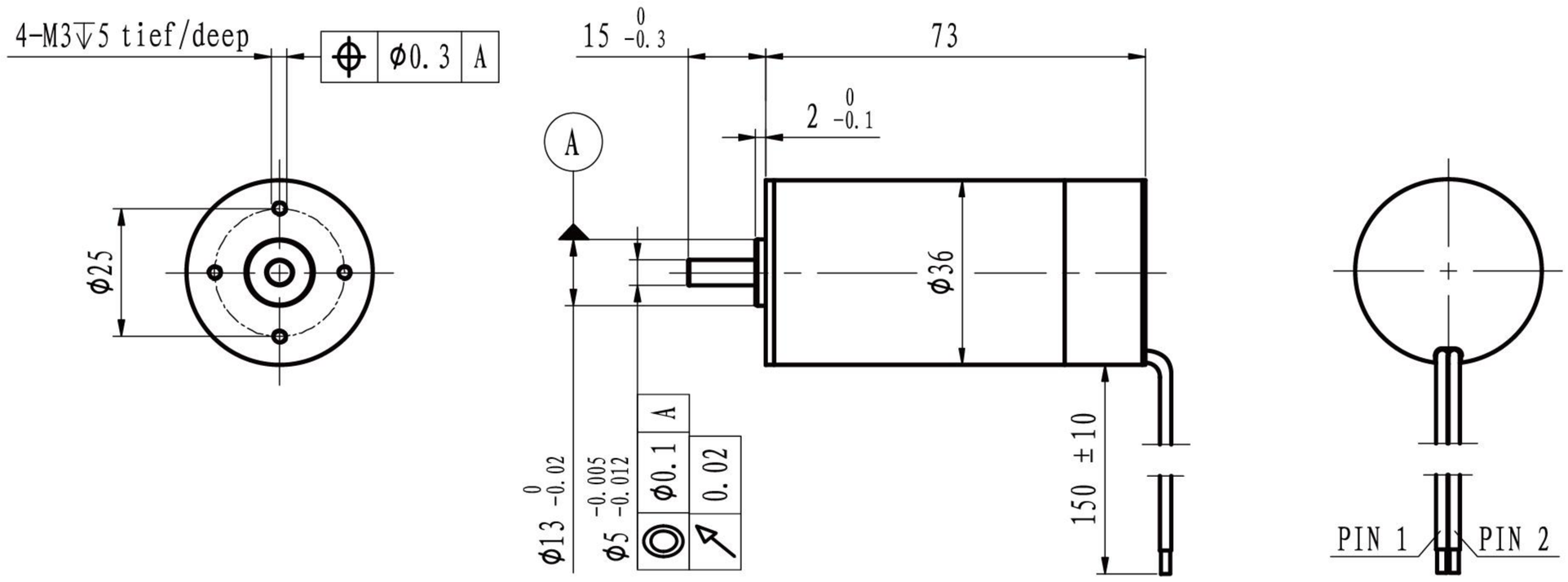
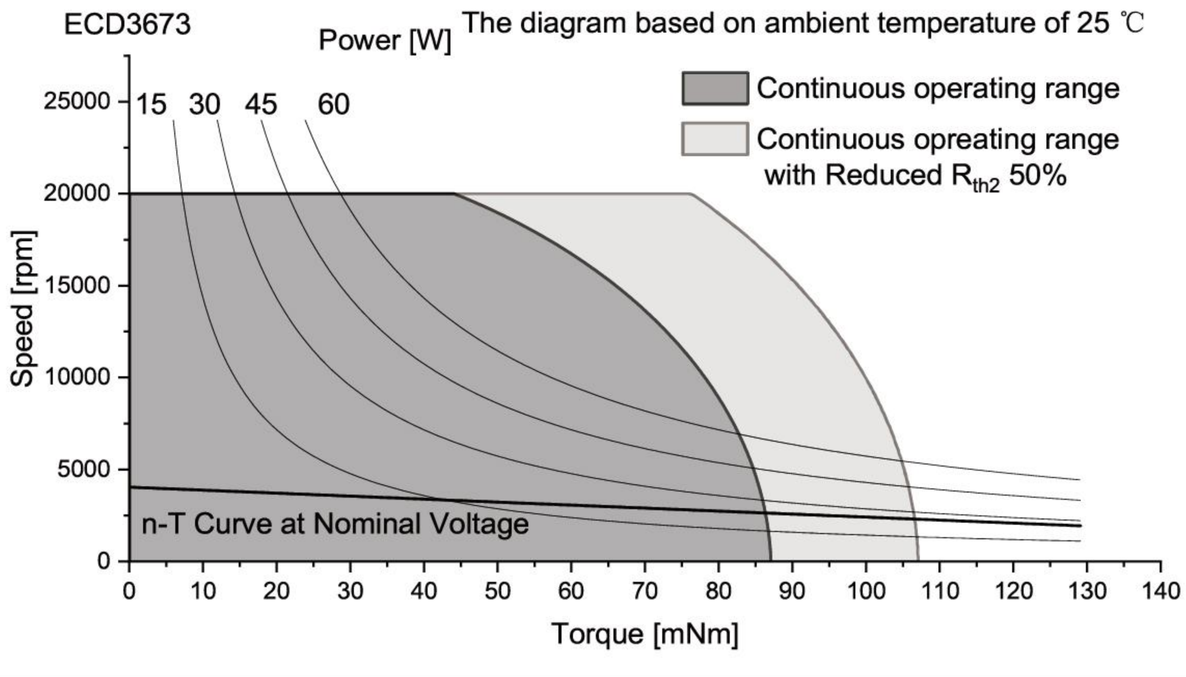


M 1:2

	With hall sensor	ECD3673S-…	1204	2404
Motor data				
Values at nominal voltage				
1	Nominal voltage	V	12	24
2	No load speed	rpm	4070	4042
3	No load current	mA	148	84
4	Nominal speed	rpm	3229	3223
5	Nominal torque	mNm	50	50
6	Nominal current	A	1.95	0.98
7	Stall torque	mNm	242.00	246.84
8	Stall current	A	8.89	4.52
9	Max. efficiency	%	75.9	74.6
10	Supply voltage +Vcc	V	10..28	10..28
11	Direction of ratation		CW	CW
12	Torque constant	mNm/A	27.69	55.65
13	Speed constant	rpm/V	345	172
14	Speed/torque gradient	rpm/mNm	17	16
15	Mechanical time constant	ms	3.4	3.3
16	Rotor inertia	gcm^2	19.5	19.5

17	Thermal resistance housing-ambient	4.9 K/W
18	Thermal resistance winding-housing	1.6 K/W
19	Thermal time constant winding	45 s
20	Thermal time constant motor	630 s
21	Ambient temprature	-30…+100℃
22	Max. permissible winding temperature	+150℃
23	Max. permissible speed	20000 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)	2700 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	317 g

Operating Range



Controller features

Sensor, Open loop, Imax < 4A
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