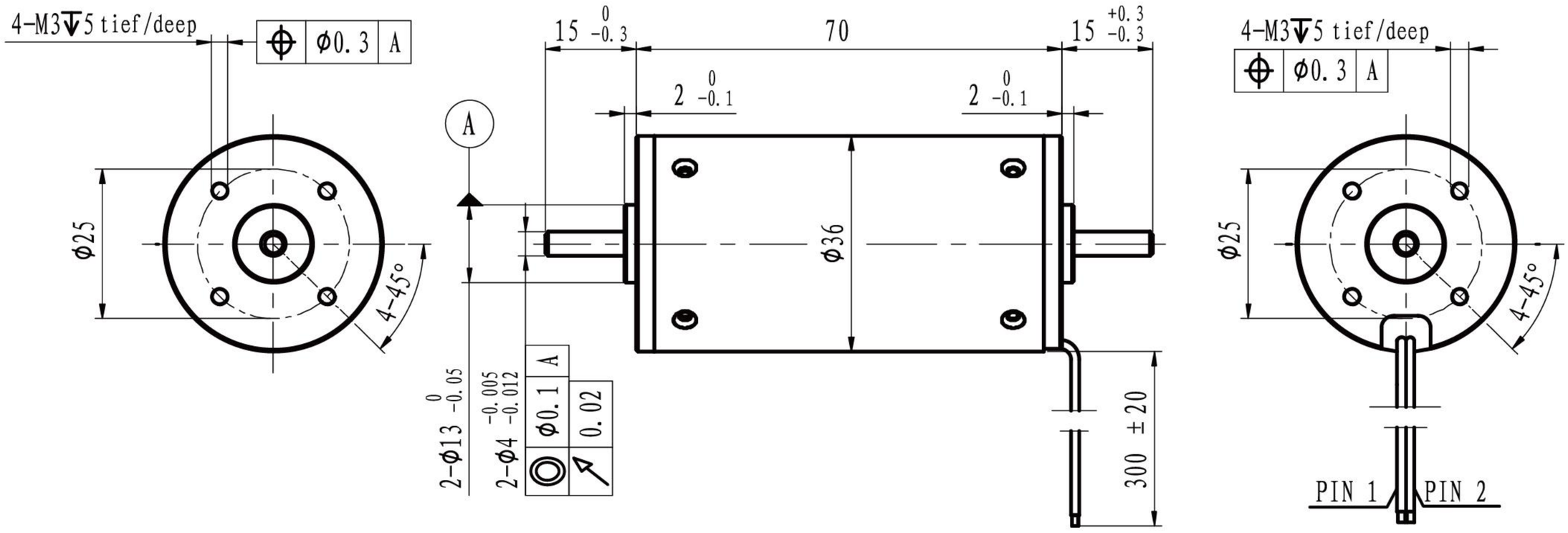
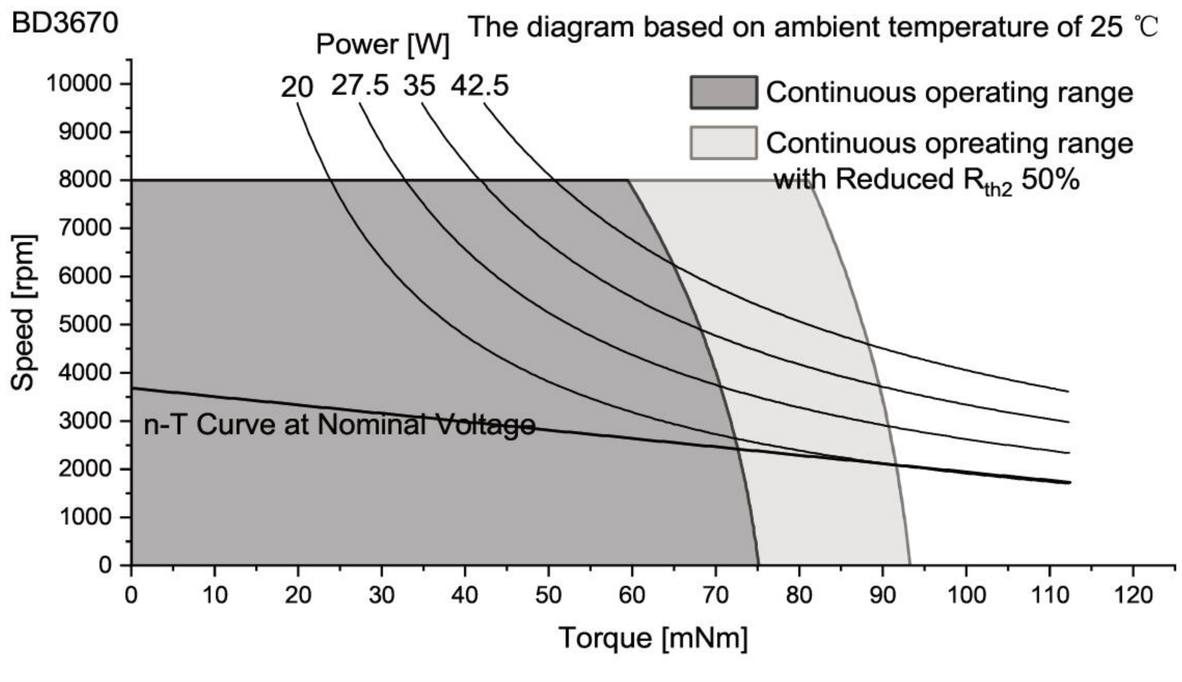


M 1:1.5

With hall sensor	BD3670S-…	1204	2404
Motor data			
Values at nominal voltage			
1 Nominal voltage	V	12	24
2 No load speed	rpm	3700	3611
3 No load current	mA	180	100
4 Nominal speed	rpm	2751	2894
5 Nominal torque	mNm	60	60
6 Nominal current	A	2.16	1.06
7 Stall torque	mNm	233.97	302.15
8 Stall current	A	7.91	4.96
9 Max. efficiency	%	72.1	73.6
10 Supply voltage +Vcc	V	10..28	10..28
11 Direction of ratation		CW	CW
12 Torque constant	mNm/A	30.27	62.19
13 Speed constant	rpm/V	316	154
14 Speed/torque gradient	rpm/mNm	16	12
15 Mechanical time constant	ms	5.5	4.2
16 Rotor inertia	gcm^2	33.2	33.2

17	Thermal resistance housing-ambient		4.7 K/W
18	Thermal resistance winding-housing		2 K/W
19	Thermal time constant winding		46 s
20	Thermal time constant motor		816 s
21	Ambient temprature		-30…+100℃
22	Max. permissible winding temperature		+150℃
23	Max. permissible speed		8000 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		6
30	Number of phases		3
31	Weight of motor		196 g

Operating Range



Controller features

Sensor, Open loop, Imax < 4A
Overload protection, Stall protection
Max. temperature of electronics +105℃

Connection

Conection PVC

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