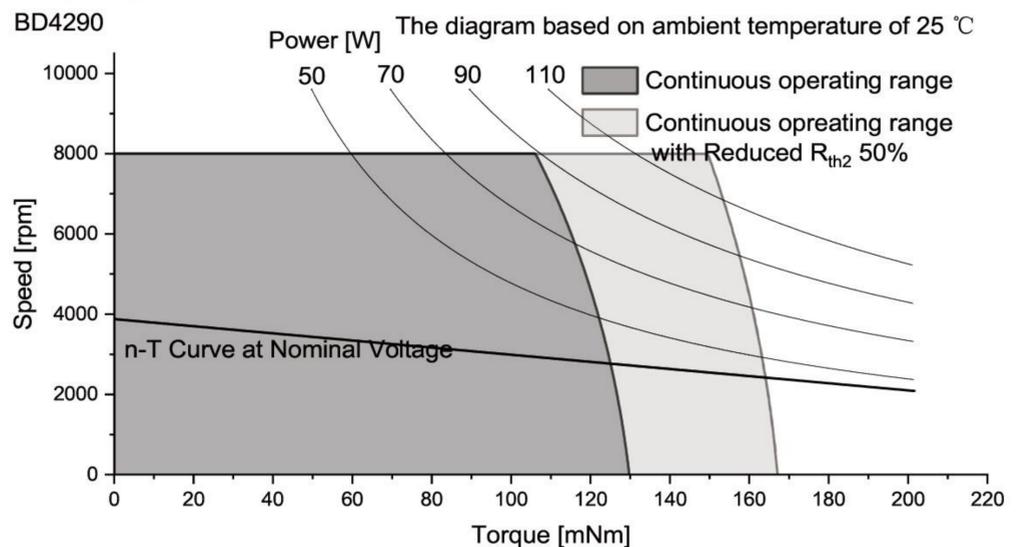


M 1:2

With hall sensor		BD4290S-...	1204	2404
Motor data				
Values at nominal voltage				
1	Nominal voltage	V	12	24
2	No load speed	rpm	3920	3980
3	No load current	mA	260	180
4	Nominal speed	rpm	3087	3522
5	Nominal torque	mNm	100	100
6	Nominal current	A	3.74	1.94
7	Stall torque	mNm	470.78	869.29
8	Stall current	A	16.62	15.45
9	Max. efficiency	%	76.5	79.6
10	Supply voltage +Vcc	V	10..28	10..28
11	Direction of rotation		CW	CW
12	Torque constant	mNm/A	28.78	56.91
13	Speed constant	rpm/V	332	168
14	Speed/torque gradient	rpm/mNm	8	5
15	Mechanical time constant	ms	3.9	2.2
16	Rotor inertia	gcm ²	45.1	45.1

17	Thermal resistance housing-ambient	3.5 K/W
18	Thermal resistance winding-housing	0.9 K/W
19	Thermal time constant winding	14 s
20	Thermal time constant motor	690
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
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	1
30	Number of phases	3
31	Weight of motor	366 g

Operating Range



Controller features	
Sensor, Open loop, $I_{max} < 4A$	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

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:
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