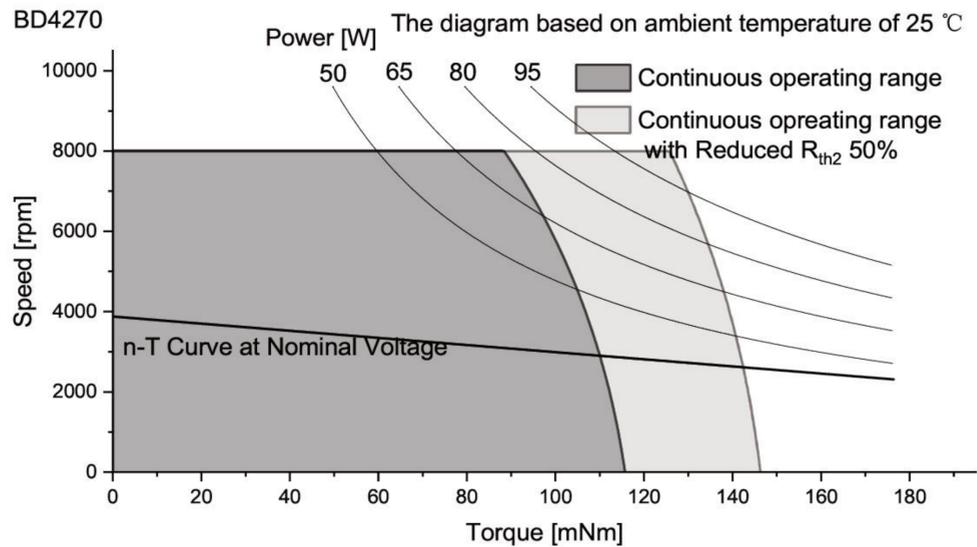


M 1:2

Motor data	With hall sensor	BD4270S-...	1204	2404					
Values at nominal voltage									
1	Nominal voltage	V	12	24					
2	No load speed	rpm	3878	3912					
3	No load current	mA	260	180					
4	Nominal speed	rpm	3154	3550					
5	Nominal torque	mNm	80	80					
6	Nominal current	A	3.02	1.56					
7	Stall torque	mNm	428.23	863.89					
8	Stall current	A	15.01	15.10					
9	Max. efficiency	%	75.4	79.4					
10	Supply voltage +Vcc	V	10..28	10..28					
11	Direction of rotation		CW	CW					
12	Torque constant	mNm/A	29.04	57.89					
13	Speed constant	rpm/V	329	165					
14	Speed/torque gradient	rpm/mNm	9	5					
15	Mechanical time constant	ms	3.7	1.9					
16	Rotor inertia	gcm ²	39.3	39.3					

17	Thermal resistance housing-ambient	4.2 K/W
18	Thermal resistance winding-housing	1.4 K/W
19	Thermal time constant winding	12 s
20	Thermal time constant motor	623 s
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	3
30	Number of phases	3
31	Weight of motor	313 g

Operating Range



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

Connection

Connection			
Pin 1	+VCC	PTFE	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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