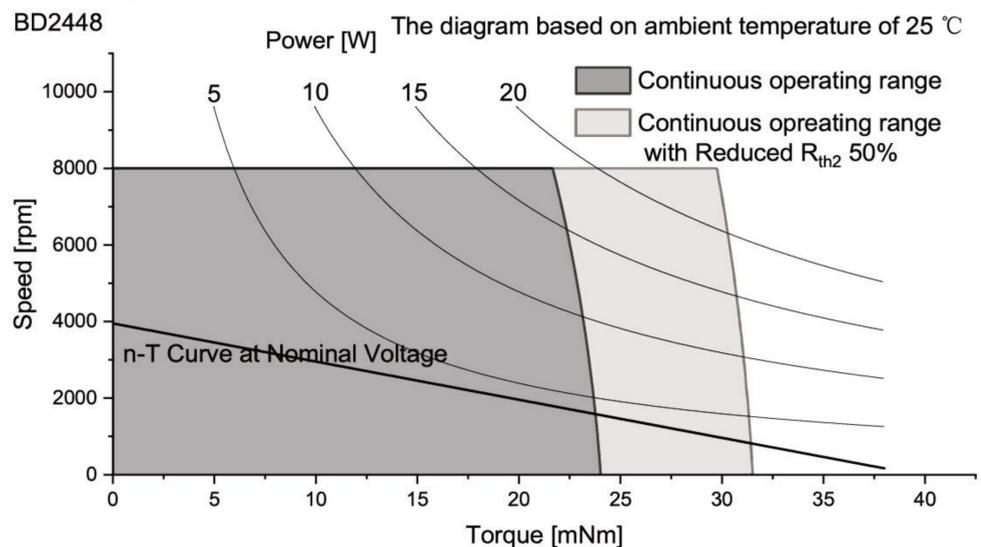


With hall sensor		BD2448S-...	1204	2404
<b>Motor data</b>				
<b>Values at nominal voltage</b>				
1	Nominal voltage	V	12	24
2	No load speed	rpm	3916	4011
3	No load current	mA	90	50
4	Nominal speed	rpm	2404	2399
5	Nominal torque	mNm	15	15
6	Nominal current	A	0.64	0.33
7	Stall torque	mNm	38.86	37.33
8	Stall current	A	1.50	0.75
9	Max. efficiency	%	57.0	55.0
10	Supply voltage +Vcc	V	10..28	10..28
11	Direction of rotation		CW	CW
12	Torque constant	mNm/A	27.51	53.33
13	Speed constant	rpm/V	347	179
14	Speed/torque gradient	rpm/mNm	101	107
15	Mechanical time constant	ms	3.8	4.0
16	Rotor inertia	gcm <sup>2</sup>	3.57	3.57

17	Thermal resistance housing-ambient	10.2 K/W
18	Thermal resistance winding-housing	6.4 K/W
19	Thermal time constant winding	36 s
20	Thermal time constant motor	555 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	<4 N: 0 mm >4 N: max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static, shaft supported)	44 N
28	Max. radial loading, 5mm from flange	1200 N
29	Number of pole pairs	3
30	Number of phases	3
31	Weight of motor	94 g

**Operating Range**



Controller features	
Sensor, Open loop, I <sub>max</sub> < 1.5A	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection			
<b>Conection</b>	PVC		
Pin 1 +VCC	AWG24	red	
Pin 2 GND	AWG24	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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