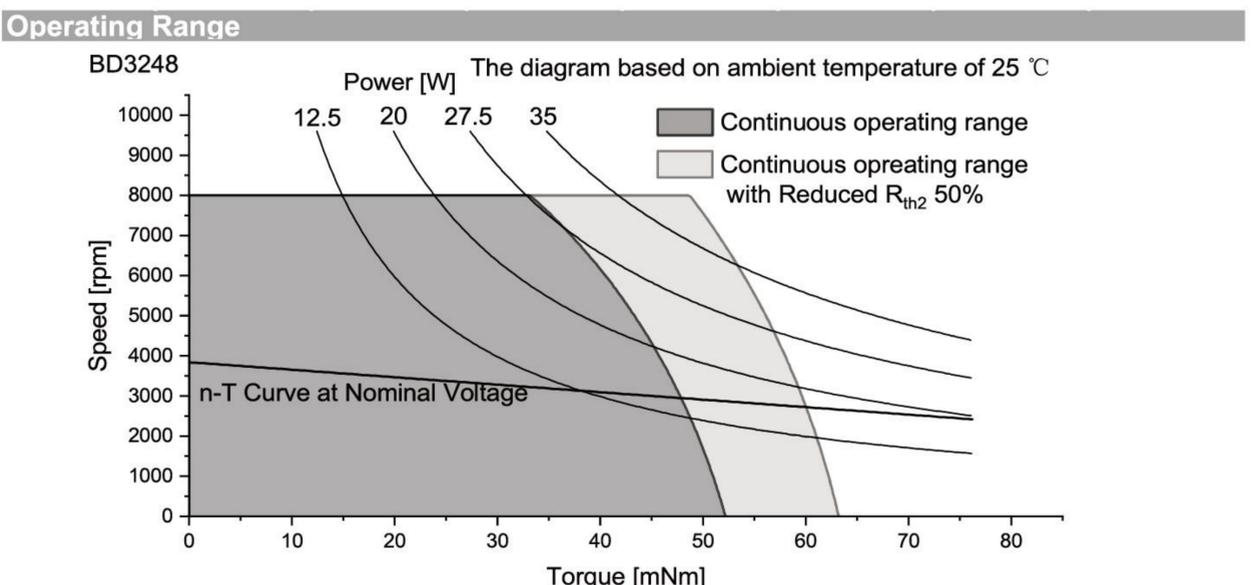


Motor data	With hall sensor	BD3248S-...	1204	2404				
Values at nominal voltage								
1	Nominal voltage	V	12	24				
2	No load speed	rpm	3950	3978				
3	No load current	mA	180	110				
4	Nominal speed	rpm	3170	3299				
5	Nominal torque	mNm	40	40				
6	Nominal current	A	1.59	0.82				
7	Stall torque	mNm	202.61	234.27				
8	Stall current	A	7.34	4.28				
9	Max. efficiency	%	71.1	70.5				
10	Supply voltage +Vcc	V	10..28	10..28				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	28.30	56.13				
13	Speed constant	rpm/V	337	170				
14	Speed/torque gradient	rpm/mNm	19	17				
15	Mechanical time constant	ms	3.2	2.8				
16	Rotor inertia	gcm ²	15.5	15.5				

17	Thermal resistance housing-ambient	8.2 K/W
18	Thermal resistance winding-housing	4.7 K/W
19	Thermal time constant winding	17 s
20	Thermal time constant motor	484 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	7
30	Number of phases	3
31	Weight of motor	113 g



Controller features	
Sensor, Open loop, $I_{max} < 2.2A$	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection			
Conection	PVC		
Pin 1 +VCC	AWG22	red	
Pin 2 GND	AWG22	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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