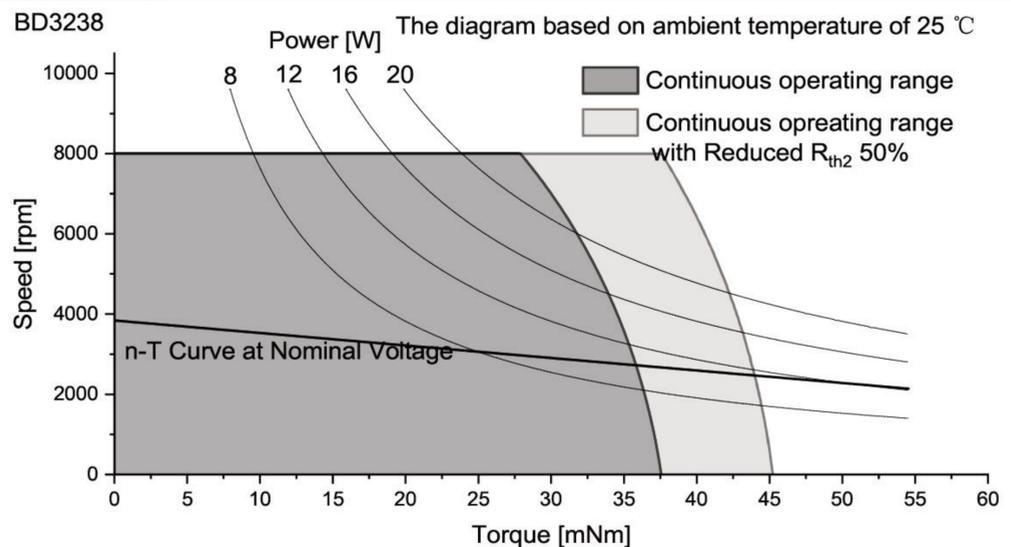


M 1:1.5

With hall sensor		BD3238S-...	1204	2404					
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24					
2	No load speed	rpm	3981	3998					
3	No load current	mA	140	90					
4	Nominal speed	rpm	2925	2969					
5	Nominal torque	mNm	30	30					
6	Nominal current	A	1.22	0.64					
7	Stall torque	mNm	113.06	116.59					
8	Stall current	A	4.20	2.21					
9	Max. efficiency	%	66.8	63.7					
10	Supply voltage +Vcc	V	10..28	10..28					
11	Direction of rotation		CW	CW					
12	Torque constant	mNm/A	27.83	54.99					
13	Speed constant	rpm/V	343	174					
14	Speed/torque gradient	rpm/mNm	35	34					
15	Mechanical time constant	ms	4.6	4.5					
16	Rotor inertia	gcm ²	12.5	12.5					

17	Thermal resistance housing-ambient	9.3 K/W
18	Thermal resistance winding-housing	5.7 K/W
19	Thermal time constant winding	15 s
20	Thermal time constant motor	432 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	101 g

Operating Range



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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