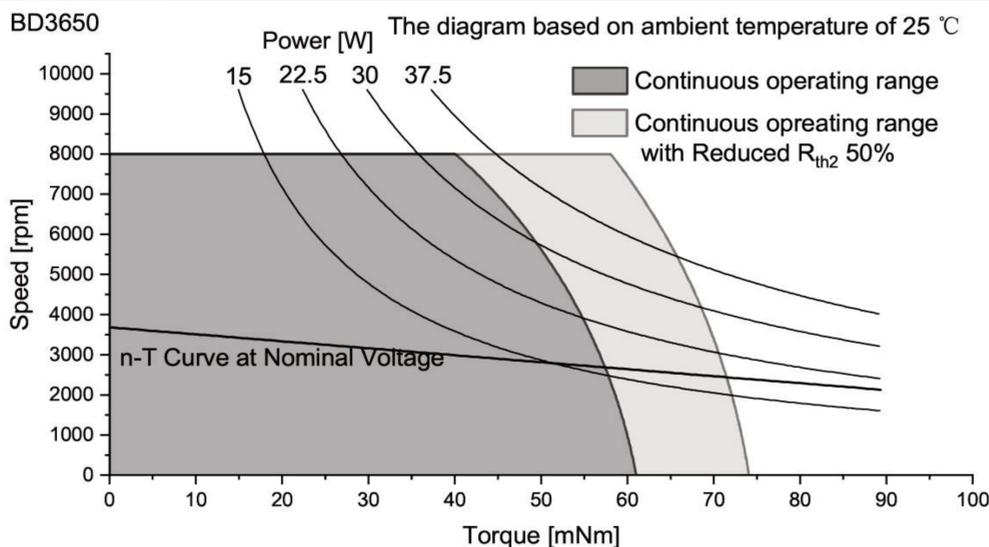


M 1:1.5

Motor data	With hall sensor	BD3650S-...	1204	2404				
Values at nominal voltage								
1	Nominal voltage	V	12	24				
2	No load speed	rpm	3621	3650				
3	No load current	mA	180	100				
4	Nominal speed	rpm	2864	3039				
5	Nominal torque	mNm	50	50				
6	Nominal current	A	1.80	0.91				
7	Stall torque	mNm	239.07	298.92				
8	Stall current	A	7.91	4.96				
9	Max. efficiency	%	72.1	73.6				
10	Supply voltage +Vcc	V	10..28	10..28				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	30.93	61.52				
13	Speed constant	rpm/V	309	155				
14	Speed/torque gradient	rpm/mNm	15	12				
15	Mechanical time constant	ms	4.6	3.7				
16	Rotor inertia	gcm ²	29.2	29.2				

17	Thermal resistance housing-ambient	6.5 K/W
18	Thermal resistance winding-housing	3.6 K/W
19	Thermal time constant winding	45 s
20	Thermal time constant motor	630 s
21	Ambient temprature	-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	6
30	Number of phases	3
31	Weight of motor	150 g

Operating Range



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

Connection			
Conection	PVC		
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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