

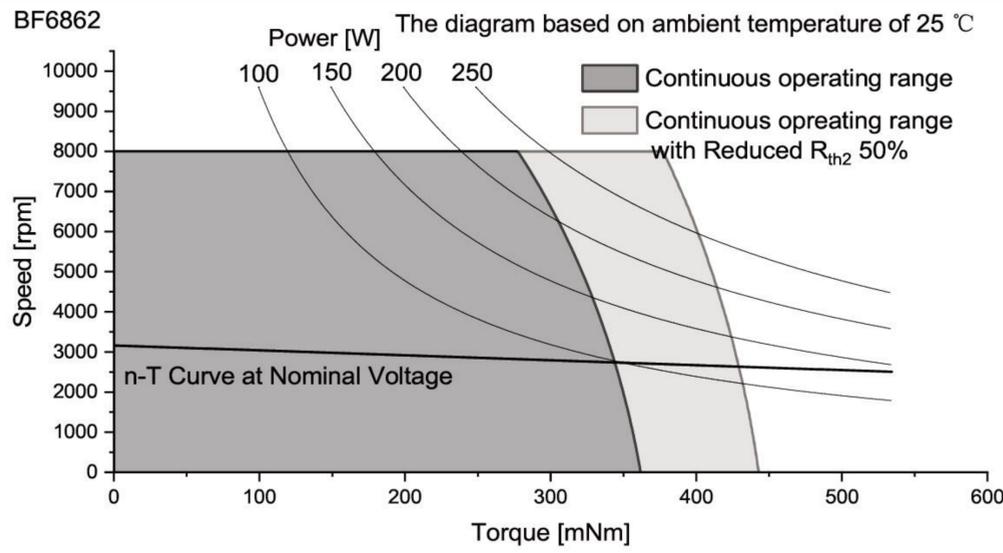
M 1:2.5

With hall sensor	BF6862S-...	2403							
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Motor data			
Values at nominal voltage			
1	Nominal voltage	V	24
2	No load speed	rpm	3107
3	No load current	mA	190
4	Nominal speed	rpm	2873
5	Nominal torque	mNm	200
6	Nominal current	A	2.92
7	Stall torque	mNm	2654
8	Stall current	A	36.36
9	Max. efficiency	%	86.1
10	Supply voltage +Vcc	V	10..28
11	Direction of rotation		CW
12	Torque constant	mNm/A	73.38
13	Speed constant	rpm/V	130
14	Speed/torque gradient	rpm/mNm	1.2
15	Mechanical time constant	ms	22.8
16	Rotor inertia	gcm ²	1861

17	Thermal resistance housing-ambient	2.7 K/W
18	Thermal resistance winding-housing	1.4 K/W
19	Thermal time constant winding	19 s
20	Thermal time constant motor	650 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	5
30	Number of phases	3
31	Weight of motor	606 g

Operating Range



Controller features	
Sensor, Open loop, $I_{max} < 8A$	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection

Conection			
Pin 1	+VCC	PVC	AWG20 red
Pin 2	GND	PVC	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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