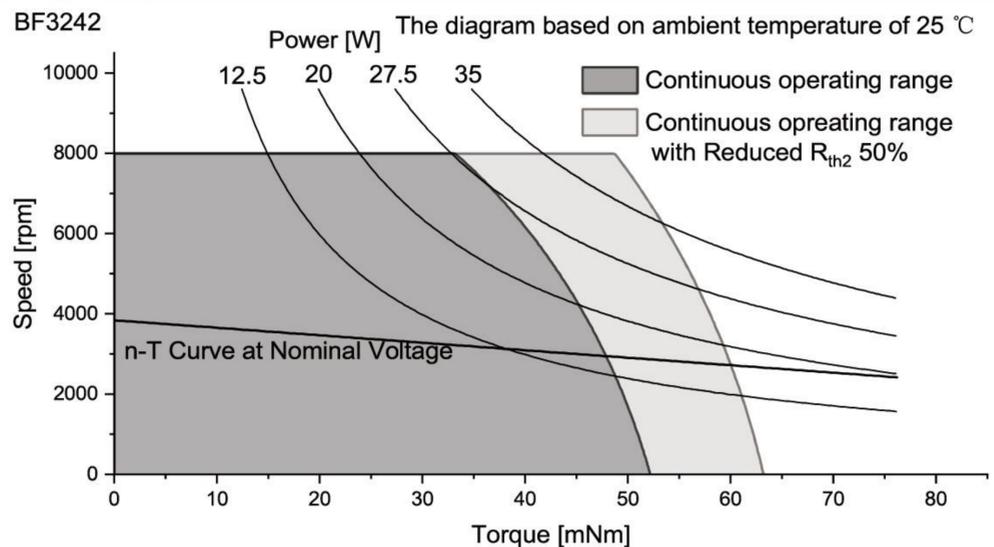


M 1:1.2

With hall sensor		BF3242S-...	1204	2404					
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24					
2	No load speed	rpm	4090	4064					
3	No load current	mA	140	80					
4	Nominal speed	rpm	3560	3569					
5	Nominal torque	mNm	32	32					
6	Nominal current	A	1.30	0.66					
7	Stall torque	mNm	246.92	262.83					
8	Stall current	A	9.09	4.82					
9	Max. efficiency	%	76.7	75.9					
10	Supply voltage +Vcc	V	10..28	10..28					
11	Direction of rotation		CW	CW					
12	Torque constant	mNm/A	27.59	55.46					
13	Speed constant	rpm/V	346	172					
14	Speed/torque gradient	rpm/mNm	17	15					
15	Mechanical time constant	ms	12.6	11.8					
16	Rotor inertia	gcm ²	72.7	72.7					

17	Thermal resistance housing-ambient	13 K/W
18	Thermal resistance winding-housing	5 K/W
19	Thermal time constant winding	32 s
20	Thermal time constant motor	540 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	8
30	Number of phases	3
31	Weight of motor	120 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		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:	
Please contact our sales engineers	