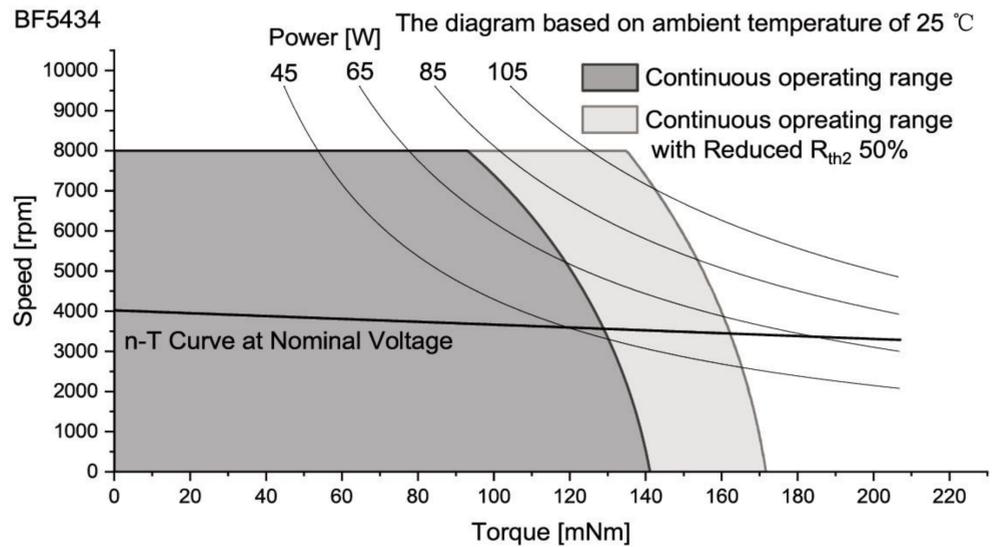


M 1:2

With hall sensor		BF5434S-...	1204	2404
Motor data				
Values at nominal voltage				
1	Nominal voltage	V	12	24
2	No load speed	rpm	4015	4042
3	No load current	mA	230	150
4	Nominal speed	rpm	3716	3774
5	Nominal torque	mNm	90	90
6	Nominal current	A	3.40	1.75
7	Stall torque	mNm	1210.09	1357.60
8	Stall current	A	42.86	24.24
9	Max. efficiency	%	85.9	84.9
10	Supply voltage +Vcc	V	10..28	10..28
11	Direction of rotation		CW	CW
12	Torque constant	mNm/A	28.39	56.35
13	Speed constant	rpm/V	336	169
14	Speed/torque gradient	rpm/mNm	3	3
15	Mechanical time constant	ms	7.2	6.5
16	Rotor inertia	gcm ²	208	208

17	Thermal resistance housing-ambient	6.1 K/W
18	Thermal resistance winding-housing	3.3 K/W
19	Thermal time constant winding	24 s
20	Thermal time constant motor	565 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	220 g

Operating Range



Controller features	
Sensor, Open loop, I _{max} < 5A	
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