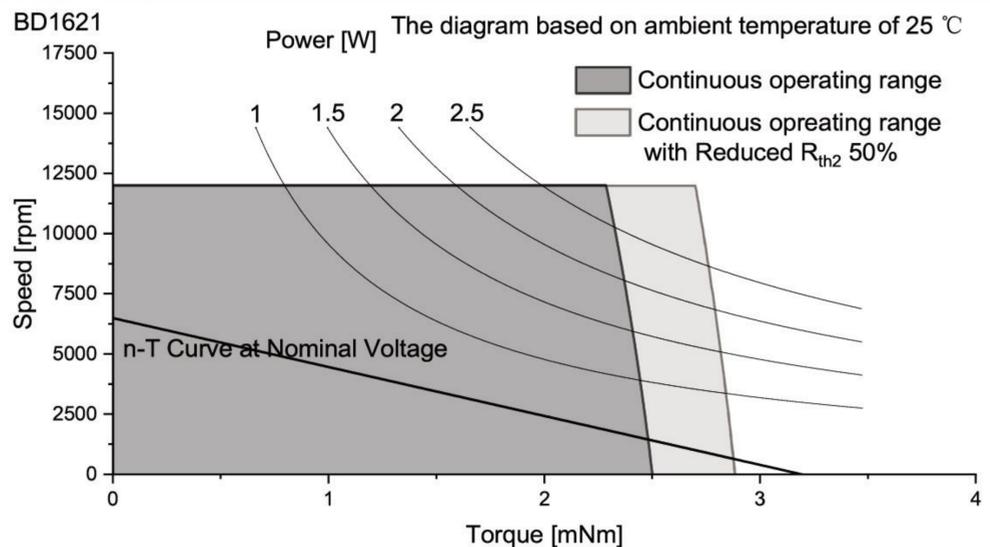


	Sensorless	BD1621L-...	0308	0606					
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	3	6					
2	No load speed	rpm	8492	6500					
3	No load current	mA	100	50					
4	Nominal speed	rpm	5267	3483					
5	Nominal torque	mNm	1.5	1.5					
6	Nominal current	A	0.58	0.24					
7	Stall torque	mNm	3.95	3.23					
8	Stall current	A	1.36	0.46					
9	Max. efficiency	%	53.2	45.0					
10	Supply voltage +Vcc	V	2.7..5	4.5..7					
11	Direction of rotation		CW	CW					
12	Torque constant	mNm/A	3.13	7.86					
13	Speed constant	rpm/V	3055	1215					
14	Speed/torque gradient	rpm/mNm	2150	2012					
15	Mechanical time constant	ms	4.5	4.2					
16	Rotor inertia	gcm ²	0.2	0.2					

17	Thermal resistance housing-ambient	25.7 K/W
18	Thermal resistance winding-housing	18.7 K/W
19	Thermal time constant winding	11 s
20	Thermal time constant motor	288 s
21	Ambient temprature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	12000 rpm
24	Axial play at axial load	<1.8 N 0 mm >1.8 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	1.3 N
27	Max. force for press fits (static)	15 N
	(static, shaft supported)	350 N
28	Max. radial loading, 5mm from flange	5 N
29	Number of pole pairs	2
30	Number of phases	3
31	Weight of motor	14.7 g

Operating Range



Controller features	
Sensorless, Open loop, I _{max} < 0.5A	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection

Conection			
Pin 1	+VCC	PVC	AWG28 red
Pin 2	GND	PVC	AWG28 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