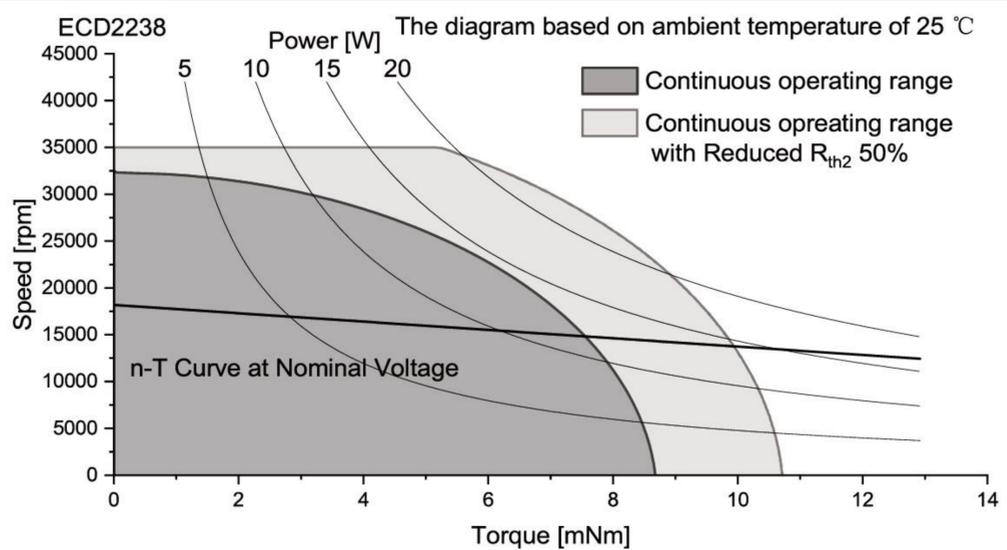


Motor data	With hall sensor	ECD2238S-...	1218	2418				
Values at nominal voltage								
1	Nominal voltage	V	12	24				
2	No load speed	rpm	17445	17721				
3	No load current	mA	220	110				
4	Nominal speed	rpm	15172	15134				
5	Nominal torque	mNm	6	6				
6	Nominal current	A	1.16	0.59				
7	Stall torque	mNm	46.05	41.10				
8	Stall current	A	7.44	3.39				
9	Max. efficiency	%	68.6	67.2				
10	Supply voltage +Vcc	V	10..28	10.28				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	6.37	12.51				
13	Speed constant	rpm/V	1498	763				
14	Speed/torque gradient	rpm/mNm	379	431				
15	Mechanical time constant	ms	6.0	6.8				
16	Rotor inertia	gcm ²	1.5	1.5				

17	Thermal resistance housing-ambient	15.2 K/W
18	Thermal resistance winding-housing	6.0 K/W
19	Thermal time constant winding	11 s
20	Thermal time constant motor	383 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	35000 rpm
24	Axial play at axial load	<4 N 0 mm >4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	63 g

Operating Range



Controller features	
Sensor, Open loop, I _{max} < 1.5A	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection

Conection			
Pin 1	+VCC	PTFE	
Pin 2	GND	AWG24	red
		AWG24	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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