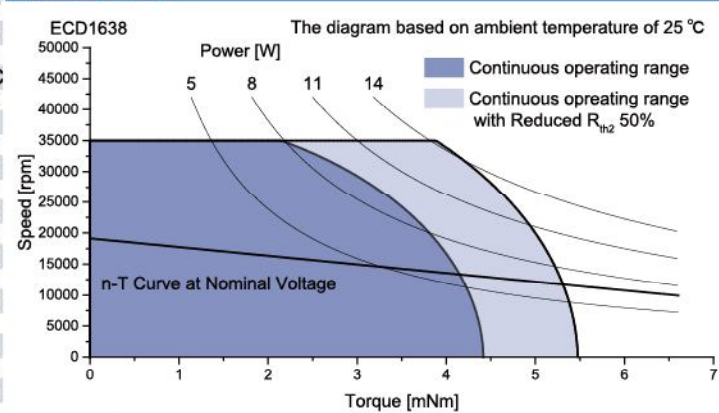


	Sensorless	ECD1638S-...	0608	1217					
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Motor data									
Values at nominal voltage									
1	Nominal voltage	V	6	12					
2	No load speed	rpm	8832	17664					
3	No load current	mA	110	100					
4	Nominal speed	rpm	6102	14491					
5	Nominal torque	mNm	1.5	2					
6	Nominal current	A	0.37	0.43					
7	Stall torque	mNm	4.85	11.1					
8	Stall current	A	0.96	1.91					
9	Max. efficiency	%	43.7	59.5					
10	Supply voltage +Vcc	V	4.5..7	8..13					
11	Direction of rotation		CW	CW					
12	Torque constant	mNm/A	5.74	6.11					
13	Speed constant	rpm/V	1664	1562					
14	Speed/torque gradient	rpm/mNm	1820	1604					
15	Mechanical time constant	ms	8.2	7.2					
16	Rotor inertia	gcm ²	0.4	0.4					

Operating Range

17	Thermal resistance housing-ambient	20.2 K/W
18	Thermal resistance winding-housing	8.7 K/W
19	Thermal time constant winding	7 s
20	Thermal time constant motor	238 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 <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) (static, shaft supported)	15 N
28	Max. radial loading, 5mm from flange	5 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	27 g



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

Connection

Connection		PTFE	
Pin 1	+VCC	AWG24	red
Pin 2	GND	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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