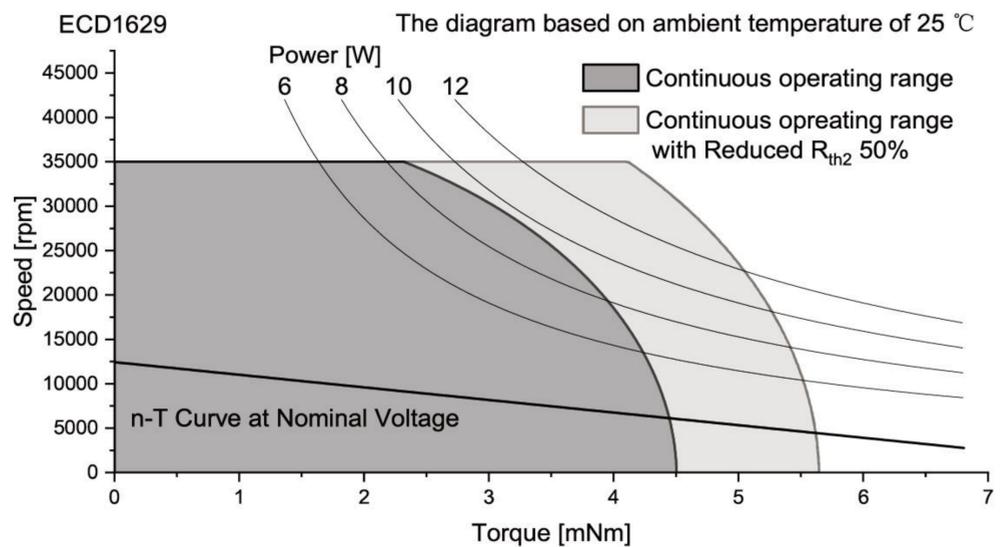


	Sensorless	ECD1629L-...	0612	1212				
Motor data								
Values at nominal voltage								
1	Nominal voltage	V	6	12				
2	No load speed	rpm	12150	12035				
3	No load current	mA	130	80				
4	Nominal speed	rpm	9534	9561				
5	Nominal torque	mNm	2	2				
6	Nominal current	A	0.58	0.31				
7	Stall torque	mNm	9.29	9.73				
8	Stall current	A	2.22	1.18				
9	Max. efficiency	%	57.5	54.6				
10	Supply voltage +Vcc	V	4.5..7	8..13				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	4.44	8.87				
13	Speed constant	rpm/V	2151	1076				
14	Speed/torque gradient	rpm/mNm	1308	1237				
15	Mechanical time constant	ms	6.4	6.1				
16	Rotor inertia	gcm ²	0.47	0.47				

17	Thermal resistance housing-ambient	20.2 K/W
18	Thermal resistance winding-housing	6.6 K/W
19	Thermal time constant winding	8 s
20	Thermal time constant motor	216 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)	15 N
	(static, shaft supported)	350 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	21 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	PTFE	
		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:
Please contact our sales engineers