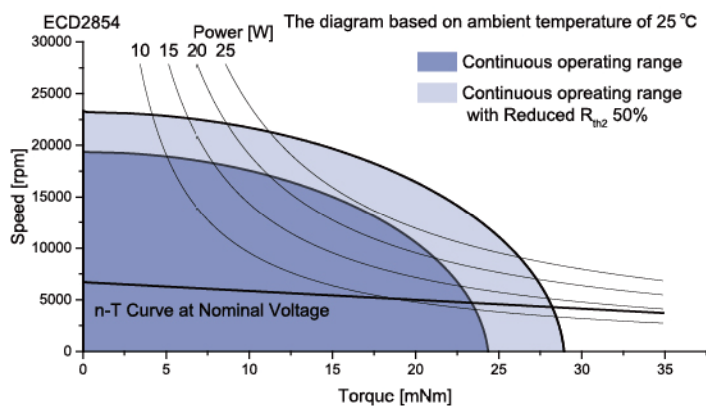


With hall sensor ECD2854S-...		1206	2406					
Motor data								
Values at nominal voltage								
1	Nominal voltage	V	12	24				
2	No load speed	rpm	6878	6700				
3	No load current	mA	121	76				
4	Nominal speed	rpm	5674	5157				
5	Nominal torque	mNm	15	18				
6	Nominal current	A	1.04	0.62				
7	Stall torque	mNm	85.7	78.1				
8	Stall current	A	5.38	2.43				
9	Max. efficiency	%	72.3	67.8				
10	Supply voltage +Vcc	V	10..28	10..28				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	16.3	33.1				
13	Speed constant	rpm/V	586	288				
14	Speed/torque gradient	rpm/mNm	80.3	85.7				
15	Mechanical time constant	ms	4.4	4.7				
16	Rotor inertia	gcm ²	5.2	5.2				

17	Thermal resistance housing-ambient	9.6 K/W
18	Thermal resistance winding-housing	6.3 K/W
19	Thermal time constant winding	37 s
20	Thermal time constant motor	584 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	25000 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)	2000 N
28	Max. radial loading, 5mm from flange	25 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	153 g

Operating Range



Controller features	
Sensor, Open loop, I _{max} < 1.8A	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection

Conection	PTFE	
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 within 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

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