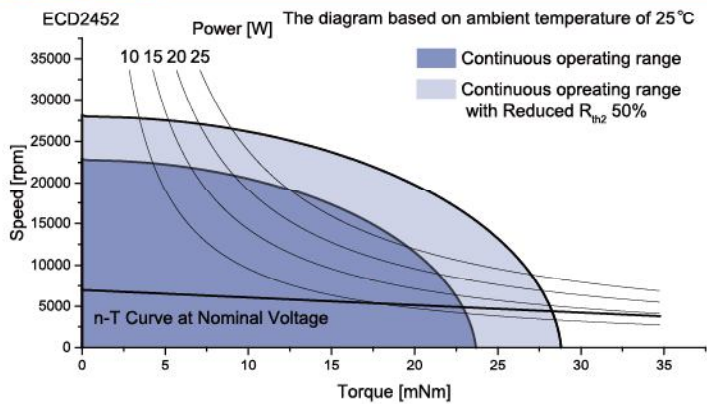


With hall sensor ECD2452S-...		1207	2407				
Motor data							
Values at nominal voltage							
1	Nominal voltage	V	12	24			
2	No load speed	rpm	6904	6980			
3	No load current	mA	103	70			
4	Nominal speed	rpm	5087	5089			
5	Nominal torque	mNm	14	14			
6	Nominal current	A	0.98	0.51			
7	Stall torque	mNm	87	85.2			
8	Stall current	A	5.58	2.73			
9	Max. efficiency	%	71.7	67.9			
10	Supply voltage +Vcc	V	10..28	10..28			
11	Direction of rotation		CW	CW			
12	Torque constant	mNm/A	15.9	32			
13	Speed constant	rpm/V	601	298			
14	Speed/torque gradient	rpm/mNm	81.3	81.9			
15	Mechanical time constant	ms	3.6	3.6			
16	Rotor inertia	gcm ²	4.2	4.2			

17	Thermal resistance housing-ambient	11.6 K/W
18	Thermal resistance winding-housing	5.6 K/W
19	Thermal time constant winding	30 s
20	Thermal time constant motor	557 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	30000 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	112 g

Operating Range



Controller features	
Sensor, Open loop, I _{max} < 1.5A	
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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