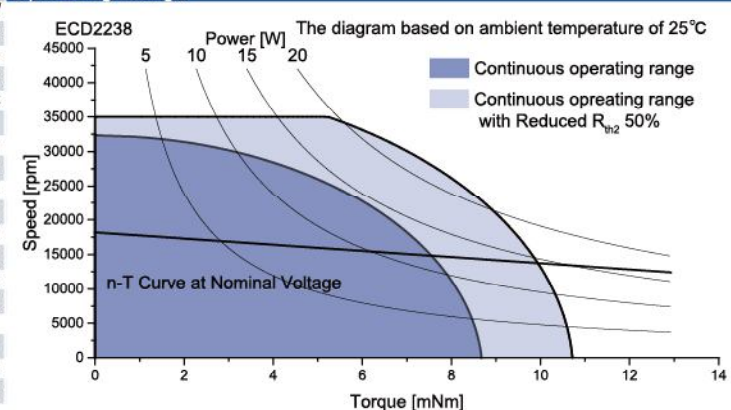


With hall sensor ECD2238S-...		1218	1818	2418			
<b>Motor data</b>							
<b>Values at nominal voltage</b>							
1	Nominal voltage	V	12	18	24		
2	No load speed	rpm	17445	17830	17721		
3	No load current	mA	220	150	110		
4	Nominal speed	rpm	14292	14700	14260		
5	Nominal torque	mNm	6	6	6		
6	Nominal current	A	1.13	0.75	0.57		
7	Stall torque	mNm	44.8	45.3	40.7		
8	Stall current	A	7.44	4.96	3.39		
9	Max. efficiency	%	70.2	70.3	67.7		
10	Supply voltage +Vcc	V	10..28	10..28	10..28		
11	Direction of rotation		CW	CW	CW		
12	Torque constant	mNm/A	6.15	9.32	12.3		
13	Speed constant	rpm/V	1553	1024	777		
14	Speed/torque gradient	rpm/mNm	407	399	447		
15	Mechanical time constant	ms	6.4	6.2	7.0		
16	Rotor inertia	gcm <sup>2</sup>	1.5	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 <sub>max</sub> < 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 :  
 Please contact our sales engineers