

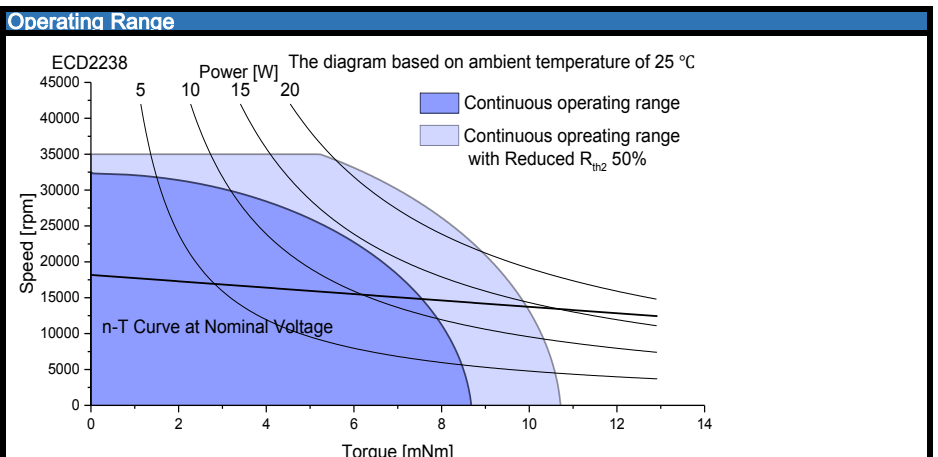
⊕ M 1.5:1

With hall sensor	ECD2238S-...	1218	1818	2418				
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Motor data								
1	Nominal voltage	V	12	18	24			
2	No load speed	rpm	18247	18053	18180			
3	No load current	mA	155	103	86			
4	Nominal speed	rpm	15804	15660	15497			
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	%	73,2	73,3	70,7			

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 ²	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	-40...+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



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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