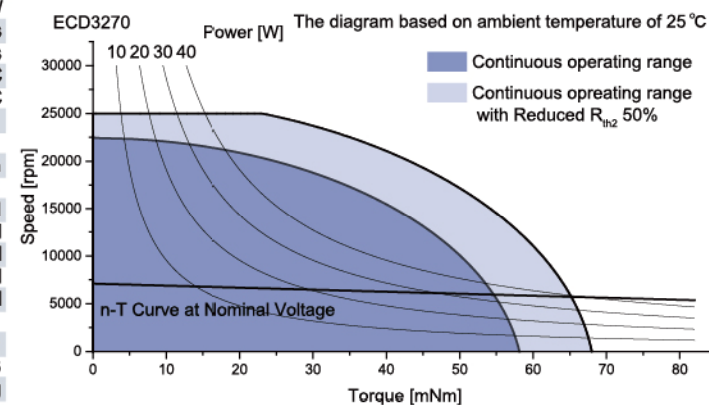


With hall sensor ECD3270S-...		1207	2407				
Motor data							
Values at nominal voltage							
1	Nominal voltage	V	12	24			
2	No load speed	rpm	7200	7100			
3	No load current	mA	194	110			
4	Nominal speed	rpm	6623	6243			
5	Nominal torque	mNm	25	40			
6	Nominal current	A	1.78	1.36			
7	Stall torque	mNm	312	331			
8	Stall current	A	20	10.5			
9	Max. efficiency	%	81.3	80.6			
10	Supply voltage +Vcc	V	10..28	10..28			
11	Direction of rotation		CW	CW			
12	Torque constant	mNm/A	15.8	31.9			
13	Speed constant	rpm/V	606	299			
14	Speed/torque gradient	rpm/mNm	23.1	21.4			
15	Mechanical time constant	ms	3.7	3.5			
16	Rotor inertia	gcm ²	15.5	15.5			

17	Thermal resistance housing-ambient	5 K/W
18	Thermal resistance winding-housing	4 K/W
19	Thermal time constant winding	52 s
20	Thermal time constant motor	540 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)	2700 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	255 g

Operating Range



Controller features	
Sensor, Open loop, $I_{max} < 2.2A$	
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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