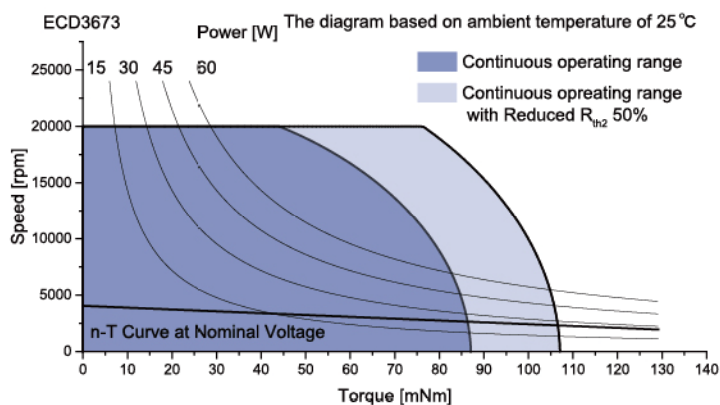


M 1:2

With hall sensor ECD3673S-...		1204	2404					
Motor data								
Values at nominal voltage								
1	Nominal voltage	V	12	24				
2	No load speed	rpm	4070	4042				
3	No load current	mA	148	84				
4	Nominal speed	rpm	3229	3223				
5	Nominal torque	mNm	50	50				
6	Nominal current	A	1.95	0.98				
7	Stall torque	mNm	242	247				
8	Stall current	A	8.89	4.52				
9	Max. efficiency	%	75.9	74.6				
10	Supply voltage +Vcc	V	10..28	10..28				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	27.7	55.7				
13	Speed constant	rpm/V	345	172				
14	Speed/torque gradient	rpm/mNm	16.8	16.4				
15	Mechanical time constant	ms	3.4	3.3				
16	Rotor inertia	gcm ²	19.5	19.5				

17	Thermal resistance housing-ambient	4.9 K/W
18	Thermal resistance winding-housing	1.6 K/W
19	Thermal time constant winding	45 s
20	Thermal time constant motor	630 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	20000 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	317 g

Operating Range



Controller features	
Sensor, Open loop, $I_{max} < 4A$	
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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