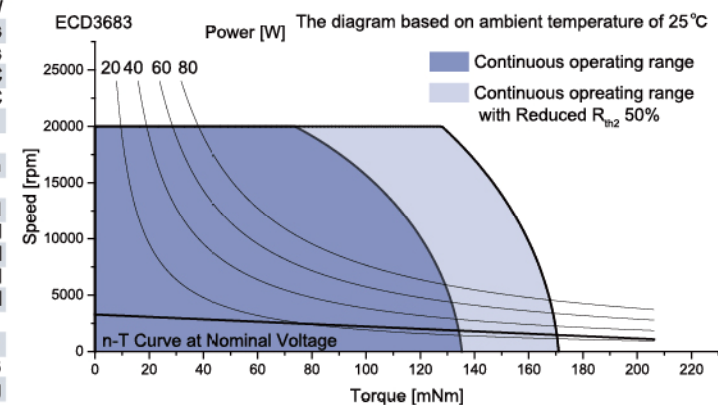


With hall sensor ECD3683S-...		1203	2403					
Motor data								
Values at nominal voltage								
1	Nominal voltage	V	12	24				
2	No load speed	rpm	3278	3273				
3	No load current	mA	137	78				
4	Nominal speed	rpm	2294	2304				
5	Nominal torque	mNm	100	100				
6	Nominal current	A	3.04	1.53				
7	Stall torque	mNm	333	338				
8	Stall current	A	9.8	4.98				
9	Max. efficiency	%	77.8	76.5				
10	Supply voltage +Vcc	V	10..28	10..28				
11	Direction of rotation		CW	CW				
12	Torque constant	mNm/A	34.5	68.9				
13	Speed constant	rpm/V	277	139				
14	Speed/torque gradient	rpm/mNm	9.83	9.69				
15	Mechanical time constant	ms	2.2	2.2				
16	Rotor inertia	gcm ²	21.5	21.5				

17	Thermal resistance housing-ambient	5 K/W
18	Thermal resistance winding-housing	2.3 K/W
19	Thermal time constant winding	46 s
20	Thermal time constant motor	816 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	366 g

Operating Range



Controller features	
Sensor, Open loop, $I_{max} < 4A$	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

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

Connection

Conection	PTFE	
Pin 1 +VCC	AWG20	red
Pin 2 GND	AWG20	black

Caution:
Incorrect lead connection will damage the controller!

More :
Please contact our sales engineers