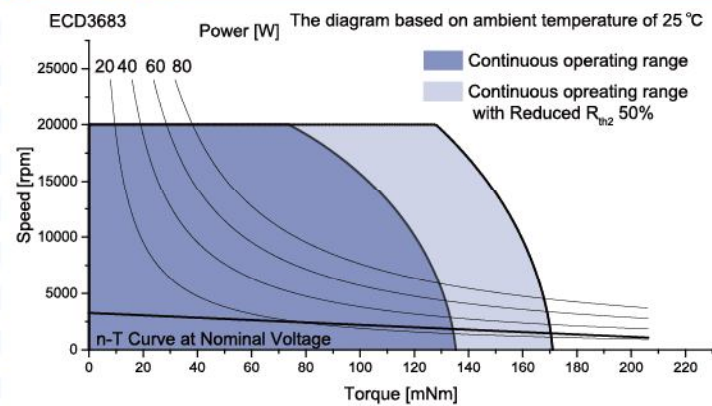


With hall sensor ECD3683S-...		1203	2403				
<b>Motor data</b>							
<b>Values at nominal voltage</b>							
1	Nominal voltage	V	12	24			
2	No load speed	rpm	3278	3273			
3	No load current	mA	137	78			
4	Nominal speed	rpm	2294	2304			
5	Nominal torque	mNm	100	100			
6	Nominal current	A	3.04	1.53			
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 <sup>2</sup>	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	-30...+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 <sub>max</sub> < 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 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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