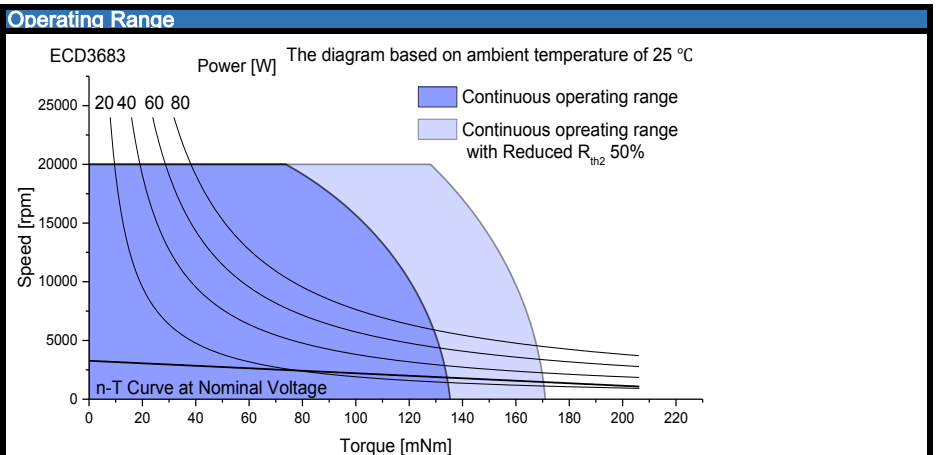


With hall sensor	ECD3683S-...	1203	2403						
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Motor data									
1	Nominal voltage	V	12	24					
2	No load speed	rpm	3277,5	3272,5					
3	No load current	mA	137	78					
4	Nominal speed	rpm	2294	2304					
5	Nominal torque	mNm	100	100					
6	Nominal 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	-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



Controller features	
Sensor, Open loop, I <sub>max</sub> < 4A	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Configuration	
Function:	On&Off/Direction/Speed control/Brake
Speed control:	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

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

More :  
Please contact our sales engineers

**Caution:**  
Incorrect lead connection will damage the controller!