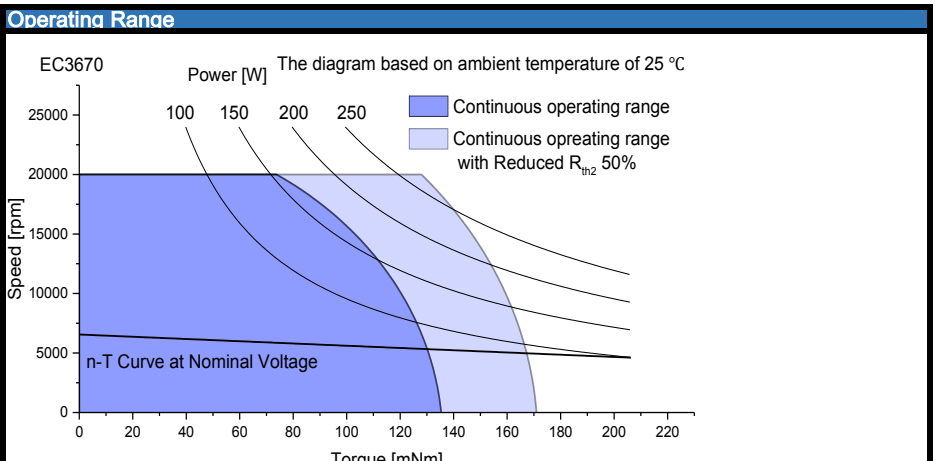


	Sensorless With hall sensor	EC3670L-... EC3670S-...	1206	2406	3606	4806			
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Motor Data									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	6578	6555	6675	6545			
3	No load current	mA	293	137	101	78			
4	Nominal speed	rpm	5300	5391	5455	5401			
5	Nominal torque	mNm	120	120	120	120			
6	Nominal current	A	7,24	3,59	2,45	1,81			
7	Stall torque	mNm	618	676	657	687			
8	Stall current	A	36	19,6	12,9	9,96			
9	Max. efficiency	%	82,8	84	83,1	83,1			

10	Terminal resistance	Ω	0,33	1,22	2,78	4,82			
11	Terminal inductance	mH	0,09	0,38	0,85	1,52			
12	Torque constant	mNm/A	17,3	34,7	51,1	69,5			
13	Speed constant	rpm/V	553	275	187	137			
14	Speed/torque gradient	rpm/mNm	10,7	9,7	10,2	9,53			
15	Mechanical time constant	ms	2,4	2,2	2,3	2,15			
16	Rotor inertia	gcm ²	21,5	21,5	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	331 g



Connection		
Connection A (Sensor) PTFE		
Pin 1	Motor winding MB	AWG20 Green
Pin 2	Vhall 3-18 VDC	AWG26 Red
Pin 3	Hall sensor HA	AWG26 Yellow
Pin 4	Hall sensor HC	AWG26 Blue
Pin 5	Motor winding MA	AWG20 Yellow
Pin 6	Motor winding MC	AWG20 Blue
Pin 7	GND	AWG26 Black
Pin 8	Hall sensor HC	AWG26 Green
Connector Molex5557-8P		
Connection B (Sensorless) PTFE		
Pin 1	Motor winding MA	AWG20 Yellow
Pin 2	Motor winding MB	AWG20 Green
Pin 3	Motor winding MC	AWG20 Blue

Configuration

Performance: Customized in the continuous operating range
 Ball bearing: Preload
 Flange: Standard frange front&back/customize the frange
 Shaft: Length/Diameter/Cut face/double shaft/hollow shaft
 Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length
 Connector: JST/MOLEX/TE