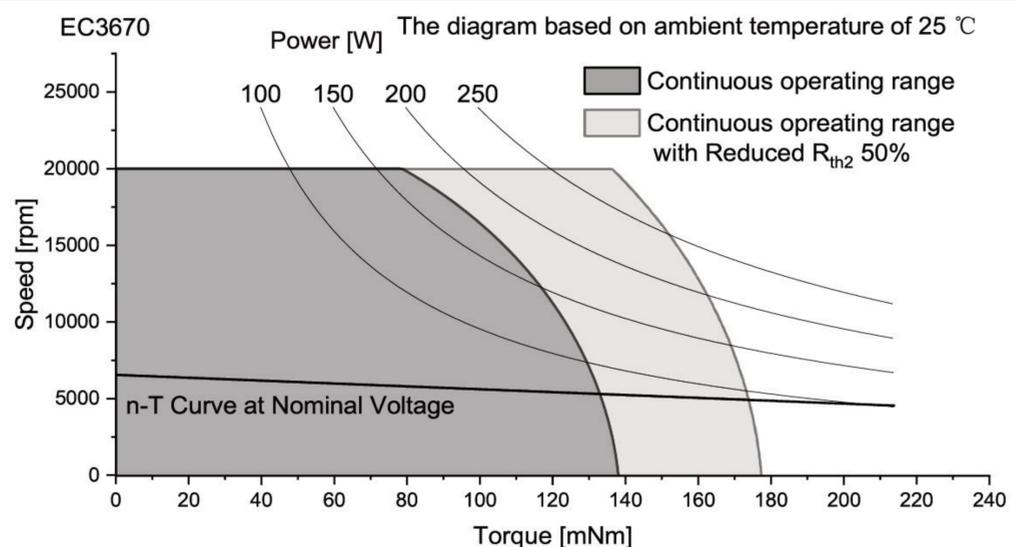


		EC3670L-...	EC3670S-...	1208	2408	3608	4808
Motor data							
Sensorless							
With hall sensor							
Values at nominal voltage							
1	Nominal voltage	V	12	24	36	48	
2	No load speed	rpm	6578	6555	6675	6545	
3	No load current	mA	293	137	101	78	
4	Nominal speed	rpm	5312	5395	5455	5401	
5	Nominal torque	mNm	120	120	120	120	
6	Nominal current	A	7.24	3.59	2.45	1.81	
7	Stall torque	mNm	623.30	678.25	656.57	686.54	
8	Stall current	A	36.36	19.67	12.95	9.96	
9	Max. efficiency	%	82.9	84.0	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	17.28	34.72	51.10	69.48	
13	Speed constant	rpm/V	553	275	187	137	
14	Speed/torque gradient	rpm/mNm	11	10	10	10	
15	Mechanical time constant	ms	2.4	2.2	2.3	2.1	
16	Rotor inertia	gcm ²	21.5	21.5	21.5	21.5	

17	Thermal resistance housing-ambient	3.5 K/W
18	Thermal resistance winding-housing	0.9 K/W
19	Thermal time constant winding	14.3 s
20	Thermal time constant motor	558 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	331 g

Operating Range



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 HB	AWG26	Green
Conector			
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