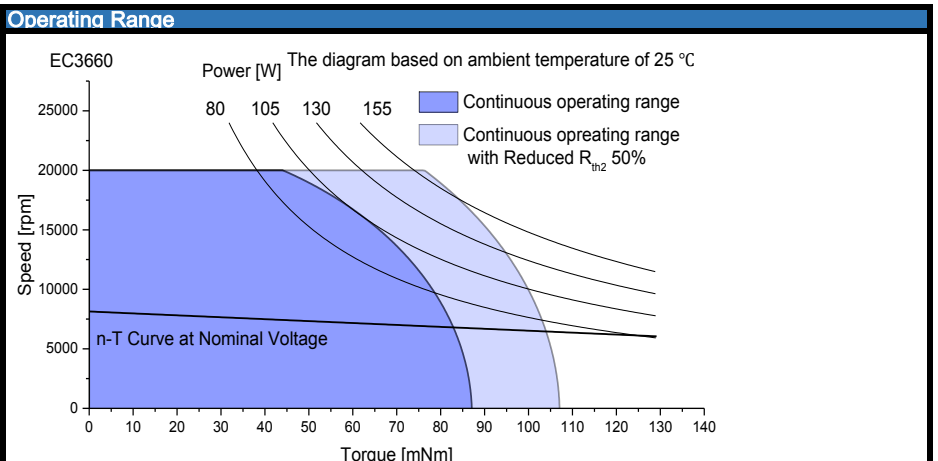


	Sensorless With hall sensor	EC3660L-... EC3660S-...	1208	2408	3608	4808			
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Motor Data									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	8050	8140	8014	8083			
3	No load current	mA	288	148	101	84			
4	Nominal speed	rpm	6794	6784	6804	6766			
5	Nominal torque	mNm	82	82	82	82			
6	Nominal current	A	6,09	3,08	2,03	1,54			
7	Stall torque	mNm	526	492	543	503			
8	Stall current	A	37,5	17,8	12,9	9,04			
9	Max. efficiency	%	83,2	82,6	83,1	81,6			

10	Terminal resistance	Ω	0,32	1,35	2,8	5,31			
11	Terminal inductance	mH	0,09	0,38	0,88	1,6			
12	Torque constant	mNm/A	14,1	27,9	42,6	56,2			
13	Speed constant	rpm/V	676	342	224	170			
14	Speed/torque gradient	rpm/mNm	15,3	16,5	14,8	16,1			
15	Mechanical time constant	ms	3,1	3,4	3,0	3,28			
16	Rotor inertia	gcm ²	19,5	19,5	19,5	19,5			

17	Thermal resistance housing-ambient	4.9 K/W
18	Thermal resistance winding-housing	1.6 K/W
19	Thermal time constant winding	45 s
20	Thermal time constant motor	630 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	272 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