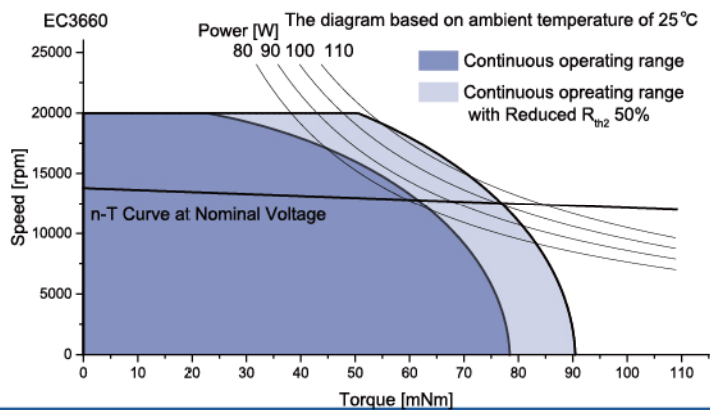


	Sensorless With hall sensor	EC3660L-... EC3660S-...	1208	2408	3608	4808			
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	8050	8140	8014	8083			
3	No load current	mA	288	148	101	84			
4	Nominal speed	rpm	6978	6982	6981	6958			
5	Nominal torque	mNm	70	70	70	70			
6	Nominal current	A	5.24	2.66	1.75	1.33			
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	3.3			
16	Rotor inertia	gcm ²	19.5	19.5	19.5	19.5			

17	Thermal resistance housing-ambient	5 K/W
18	Thermal resistance winding-housing	4 K/W
19	Thermal time constant winding	52 s
20	Thermal time constant motor	540 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	215 g

Operating Range



Connection

Conection 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

Conection 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 within 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/Siliccn/Teflon/UL No/Dimension/length
Connector: JST/MOLEX/TE