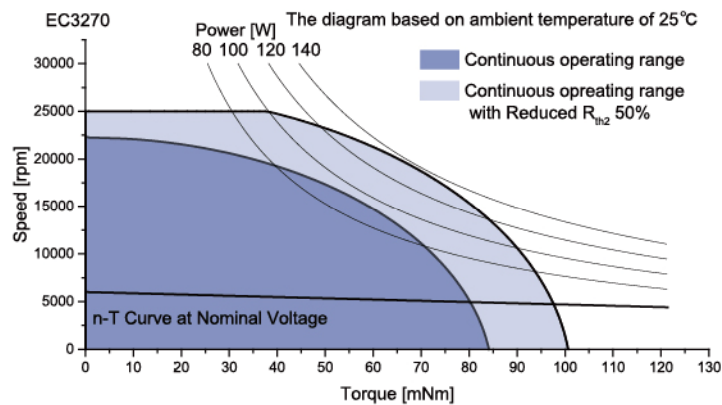


	Sensorless With hall sensor	EC3270L-... EC3270S-...	1206	2406	3606	4806			
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	6053	6031	5981	6095			
3	No load current	mA	230	130	93	74			
4	Nominal speed	rpm	4875	4884	4875	4932			
5	Nominal torque	mNm	85	85	85	85			
6	Nominal current	A	4.76	2.39	1.59	1.22			
7	Stall torque	mNm	437	447	460	445			
8	Stall current	A	23.5	12	8.18	6.07			
9	Max. efficiency	%	81.2	80.3	79.8	79.1			
10	Terminal resistance	Ω	0.51	2	4.4	7.91			
11	Terminal inductance	mH	0.15	0.60	1.39	2.36			
12	Torque constant	mNm/A	18.7	37.6	56.8	74.3			
13	Speed constant	rpm/V	509	254	168	129			
14	Speed/torque gradient	rpm/mNm	13.9	13.5	13	13.7			
15	Mechanical time constant	ms	2.7	2.6	2.5	2.7			
16	Rotor inertia	gcm ²	18.5	18.5	18.5	18.5			

17	Thermal resistance housing-ambient	4.9 K/W
18	Thermal resistance winding-housing	2.9 K/W
19	Thermal time constant winding	48 s
20	Thermal time constant motor	628 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	25000 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/Siliccon/Teflon/UL No/Dimension/length
Connector: JST/MOLEX/TE