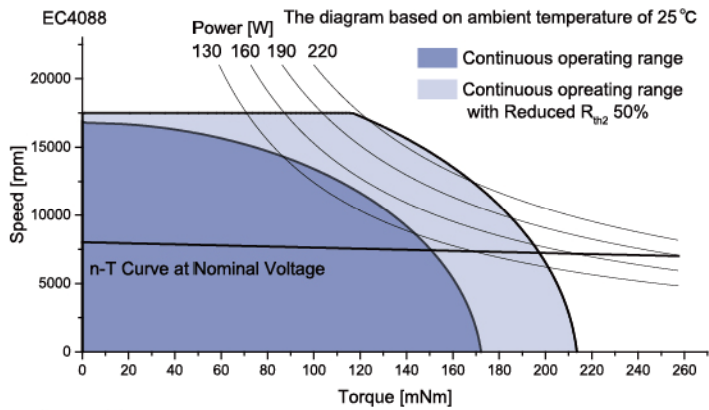


	Sensorless	EC4088L-...	2408	3608	4808				
	With hall sensor	EC4088S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	24	36	48				
2	No load speed	rpm	8016	7972	7980				
3	No load current	mA	143	96	73				
4	Nominal speed	rpm	7148	7188	7195				
5	Nominal torque	mNm	200	200	200				
6	Nominal current	A	7.15	4.74	3.56				
7	Stall torque	mNm	1846	2034	2034				
8	Stall current	A	64.9	47.4	35.6				
9	Max. efficiency	%	90.8	91.2	91.1				
10	Terminal resistance	Ω	0.37	0.76	1.35				
11	Terminal inductance	mH	0.09	0.36	0.63				
12	Torque constant	mNm/A	28.5	43	57.3				
13	Speed constant	rpm/V	335	222	167				
14	Speed/torque gradient	rpm/mNm	4.34	3.92	3.92				
15	Mechanical time constant	ms	2.5	2.2	2.2				
16	Rotor inertia	gcm ²	54.1	54.1	54.1				

17	Thermal resistance housing-ambient	3.7 K/W
18	Thermal resistance winding-housing	1.4 K/W
19	Thermal time constant winding	48 s
20	Thermal time constant motor	996 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	17500 rpm
24	Axial play at axial load <10N	0 mm
	>10N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	9 N
27	Max. force for press fits (static)	170 N
	(static, shaft supported)	4500 N
28	Max. radial loading, 5mm from flange	80 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	522 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