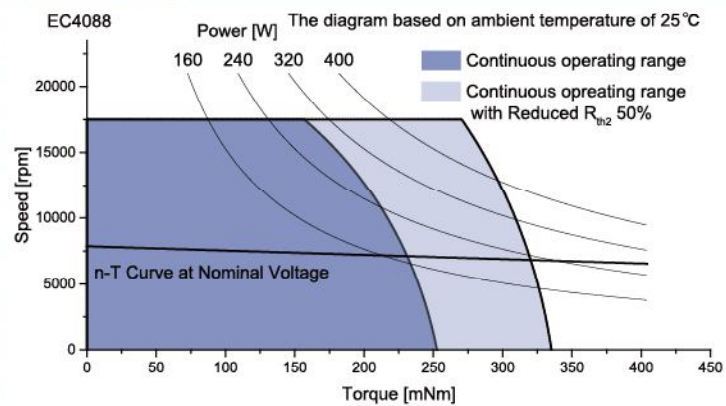


	Sensorless	EC4088L-...	2408	3608	4808			
	With hall sensor	EC4088S-...						

Motor data					
Values at nominal voltage					
1	Nominal voltage	V	24	36	48
2	No load speed	rpm	7921	8032	8081
3	No load current	mA	440	290	200
4	Nominal speed	rpm	7299	7379	7452
5	Nominal torque	mNm	200	200	200
6	Nominal current	A	7.39	4.99	3.74
7	Stall torque	mNm	2546	2460	2570
8	Stall current	A	88.9	58.1	45.7
9	Max. efficiency	%	86.4	86.4	87.2
10	Terminal resistance	$\Omega$	0.27	0.62	1.05
11	Terminal inductance	mH	0.18	0.38	0.78
12	Torque constant	mNm/A	28.8	42.6	56.5
13	Speed constant	rpm/V	332	224	169
14	Speed/torque gradient	rpm/mNm	3.11	3.26	3.14
15	Mechanical time constant	ms	1.8	1.9	1.8
16	Rotor inertia	gcm <sup>2</sup>	54.1	54.1	54.1

17	Thermal resistance housing-ambient	3.0 K/W
18	Thermal resistance winding-housing	0.6 K/W
19	Thermal time constant winding	48 s
20	Thermal time constant motor	996 s
21	Ambient temperature	-30...+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	571 g

**Operating Range**



**Connection**      **Configuration**

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
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

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