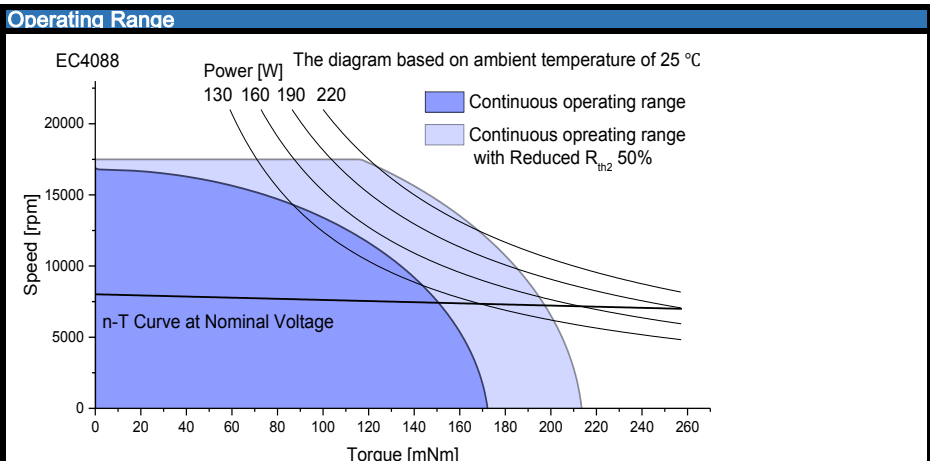


	Sensorless With hall sensor	EC4088L-... EC4088S-...	2408	3608	4808				
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Motor Data									
1	Nominal voltage	V	24	36	48				
2	No load speed	rpm	8016	7972	7980				
3	No load current	mA	143	96	73				
4	Nominal speed	rpm	7148	7188	7195				
5	Nominal torque	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



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