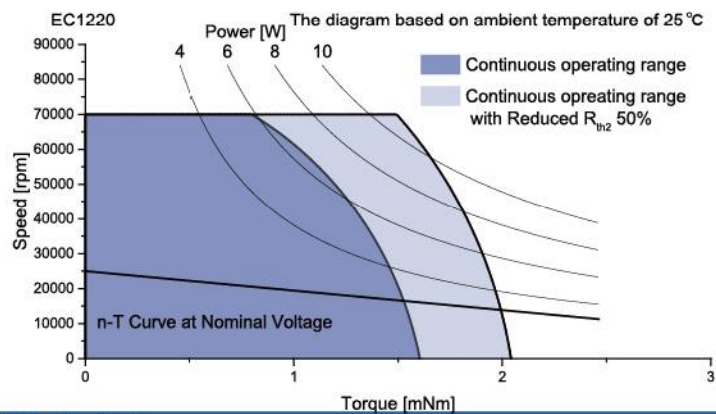


M 1.5:1

Motor data	Sensorless EC1220L-...	0625	0936					
Values at nominal voltage								
1	Nominal voltage	V	6	9				
2	No load speed	rpm	25000	36890				
3	No load current	mA	69	83				
4	Nominal speed	rpm	16536	29888				
5	Nominal torque	mNm	1.5	1.3				
6	Nominal current	A	0.75	0.66				
7	Stall torque	mNm	4.43	6.85				
8	Stall current	A	2.07	3.1				
9	Max. efficiency	%	66.8	70				
10	Terminal resistance	Ω	2.9	2.9				
11	Terminal inductance	mH	0.19	0.19				
12	Torque constant	mNm/A	2.22	2.27				
13	Speed constant	rpm/V	4310	4212				
14	Speed/torque gradient	rpm/mNm	5642	5386				
15	Mechanical time constant	ms	10.0	9.6				
16	Rotor inertia	gcm ²	0.17	0.17				

17	Thermal resistance housing-ambient	38.3 K/W
18	Thermal resistance winding-housing	9.6 K/W
19	Thermal time constant winding	5 s
20	Thermal time constant motor	196 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+125°C
23	Max. permissible speed	70000 rpm
24	Axial play at axial load <0.8 N	0 mm
	>0.8 N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	0.3
27	Max. force for press fits (static)	11N
	(static, shaft supported)	200 N
28	Max. radial loading, 5mm from flange	4.3 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	9.8 g

Operating Range



Connection

Conection	PTFE	
Pin 1 Motor winding MA	AWG28	yellow
Pin 2 Motor winding MB	AWG28	green
Pin 3 Motor winding MC	AWG28	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