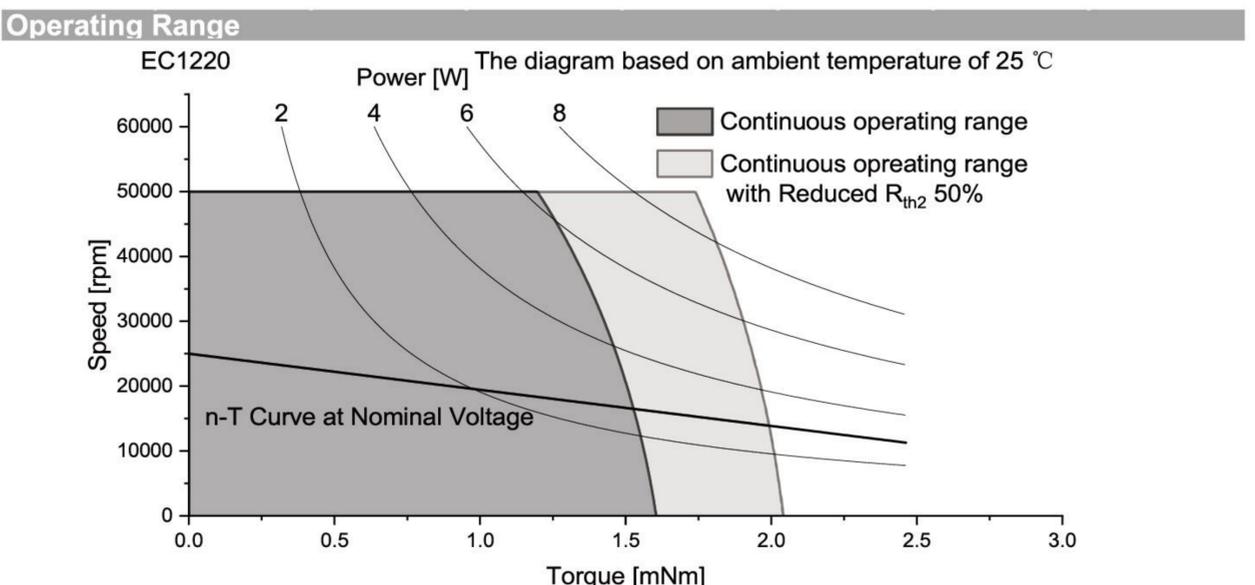


	Sensorless	EC1220L-...	0625	1225					
	With hall sensor	EC1220S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	6	12					
2	No load speed	rpm	25130	25280					
3	No load current	mA	69	40					
4	Nominal speed	rpm	16578	16530					
5	Nominal torque	mNm	1.5	1.5					
6	Nominal current	A	0.75	0.38					
7	Stall torque	mNm	4.41	4.33					
8	Stall current	A	2.07	1.03					
9	Max. efficiency	%	66.8	64.5					
10	Terminal resistance	Ω	2.9	11.6					
11	Terminal inductance	mH	0.19	0.76					
12	Torque constant	mNm/A	2.20	4.36					
13	Speed constant	rpm/V	4333	2191					
14	Speed/torque gradient	rpm/mNm	5701	5834					
15	Mechanical time constant	ms	10.1	10.4					
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	-30...+100°C
22	Max. permissible winding temperature	+125°C
23	Max. permissible speed	50000 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 N
27	Max. force for press fits (static)	11 N
	(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



Connection		Configuration	
Connection A (Sensor)		PTFE	
Pin 1	Vhall 3-18 VDC	AWG30	red
Pin 2	Hall sensor HA	AWG30	yellow
Pin 3	Hall sensor HB	AWG30	green
Pin 4	Hall sensor HC	AWG30	blue
Pin 5	GND	AWG30	black
Pin 6	Motor winding MA	AWG30	yellow
Pin 7	Motor winding MB	AWG30	green
Pin 8	Motor winding MC	AWG30	blue
Conector			
MX 1.25-8Y			
Connection B (Sensorless)		PVC	
Pin 1	Motor winding MA	AWG30	yellow
Pin 2	Motor winding MB	AWG30	green
Pin 3	Motor winding MC	AWG30	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