

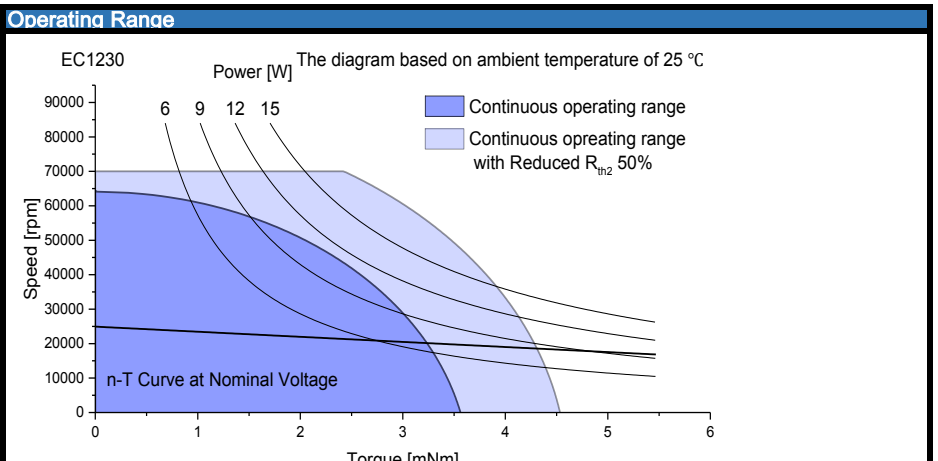
⊕ M 1.5:1

Sensorless	EC1230L-...	0625	0925	1225				
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Motor Data								
1	Nominal voltage	V	6	9	12			
2	No load speed	rpm	25310	25100	24930			
3	No load current	mA	122	90	72			
4	Nominal speed	rpm	20719	20565	20449			
5	Nominal torque	mNm	3	3	3			
6	Nominal current	A	1.47	0.98	0.74			
7	Stall torque	mNm	16.5	16.6	16.7			
8	Stall current	A	7.55	5.03	3.77			
9	Max. efficiency	%	76.2	75	74.3			

10	Terminal resistance	Ω	0.8	1.79	3.18			
11	Terminal inductance	mH	0.02	0.04	0.08			
12	Torque constant	mNm/A	2.23	3.36	4.51			
13	Speed constant	rpm/V	4288	2840	2118			
14	Speed/torque gradient	rpm/mNm	1530	1512	1494			
15	Mechanical time constant	ms	5.1	5.1	5.0			
16	Rotor inertia	gcm ²	0.3	0.3	0.3			

17	Thermal resistance housing-ambient	28.4 K/W
18	Thermal resistance winding-housing	7.1 K/W
19	Thermal time constant winding	4 s
20	Thermal time constant motor	240 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)
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	16.3 g



Connection	
Connection	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 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