

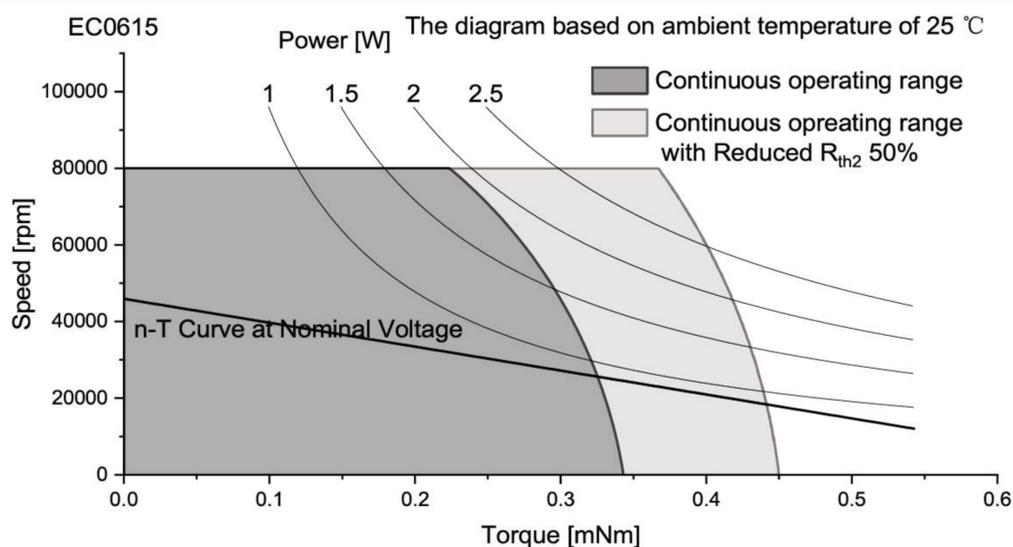
M 3:1

	Sensorless	EC0615L-...	0645	1245					
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Motor data									
Values at nominal voltage									
1	Nominal voltage	V	6	12					
2	No load speed	rpm	45931	45633					
3	No load current	mA	80	53					
4	Nominal speed	rpm	26901	25005					
5	Nominal torque	mNm	0.3	0.3					
6	Nominal current	A	0.35	0.19					
7	Stall torque	mNm	0.72	0.66					
8	Stall current	A	0.73	0.36					
9	Max. efficiency	%	44.8	38.1					
10	Terminal resistance	Ω	8.2	33.1					
11	Terminal inductance	mH	0.048	0.195					
12	Torque constant	mNm/A	1.11	2.14					
13	Speed constant	rpm/V	8595	4454					
14	Speed/torque gradient	rpm/mNm	63434	68759					
15	Mechanical time constant	ms	5.3	5.8					
16	Rotor inertia	gcm ²	0.008	0.008					

17	Thermal resistance housing-ambient	90 K/W
18	Thermal resistance winding-housing	17.6 K/W
19	Thermal time constant winding	1.1 s
20	Thermal time constant motor	136 s
21	Ambient temprature	-30...+100 $^{\circ}\text{C}$
22	Max. permissible winding temperature	+125 $^{\circ}\text{C}$
23	Max. permissible speed	80000 rpm
24	Axial play at axial load	<0.15 N 0 mm >0.15 N max. 0.1 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	0.1 N
27	Max. force for press fits (static)	10 N
	(static, shaft supported)	100 N
28	Max. radial loading, 2mm from flange	2 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	2.6 g

Operating Range



Connection Configuration

Conection		PVC	
Pin 1	Motor winding MA	AWG32	yellow
Pin 2	Motor winding MB	AWG32	green
Pin 3	Motor winding MC	AWG32	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