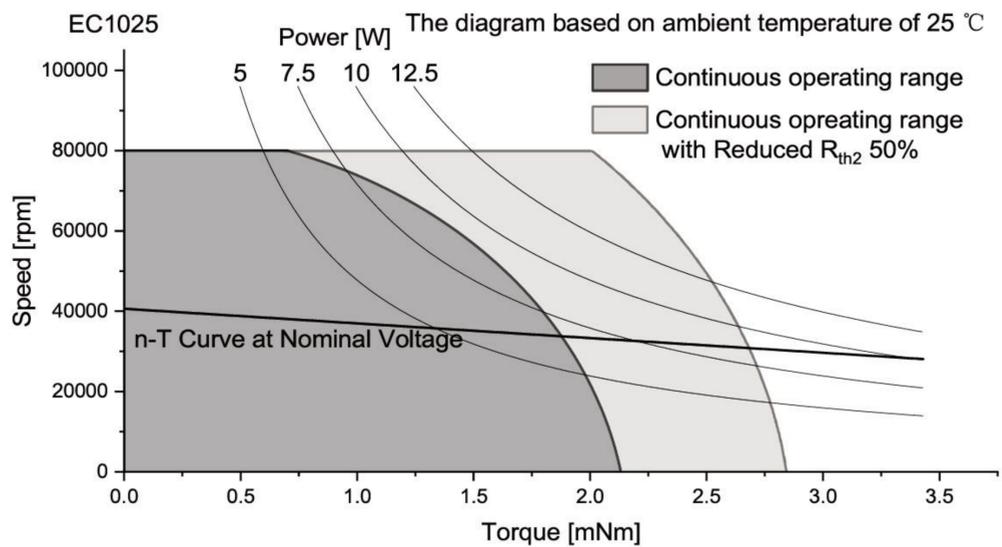


M 1.5:1

	Sensorless	EC1025L-...	0640	1240					
	With hall sensor	EC1025S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	6	12					
2	No load speed	rpm	40183	40617					
3	No load current	mA	163	92					
4	Nominal speed	rpm	34447	35001					
5	Nominal torque	mNm	1.5	1.5					
6	Nominal current	A	1.24	0.64					
7	Stall torque	mNm	10.51	10.85					
8	Stall current	A	7.69	4.03					
9	Max. efficiency	%	73.0	72.1					
10	Terminal resistance	Ω	0.78	2.98					
11	Terminal inductance	mH	0.014	0.056					
12	Torque constant	mNm/A	1.40	2.76					
13	Speed constant	rpm/V	6842	3464					
14	Speed/torque gradient	rpm/mNm	3824	3744					
15	Mechanical time constant	ms	3.1	3.0					
16	Rotor inertia	gcm ²	0.077	0.077					

17	Thermal resistance housing-ambient	42.3 K/W
18	Thermal resistance winding-housing	5.9 K/W
19	Thermal time constant winding	2 s
20	Thermal time constant motor	292 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	<0.3 N 0 mm >0.3 N max. 0.1 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	0.2 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	9.2 g

Operating Range



Connection

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