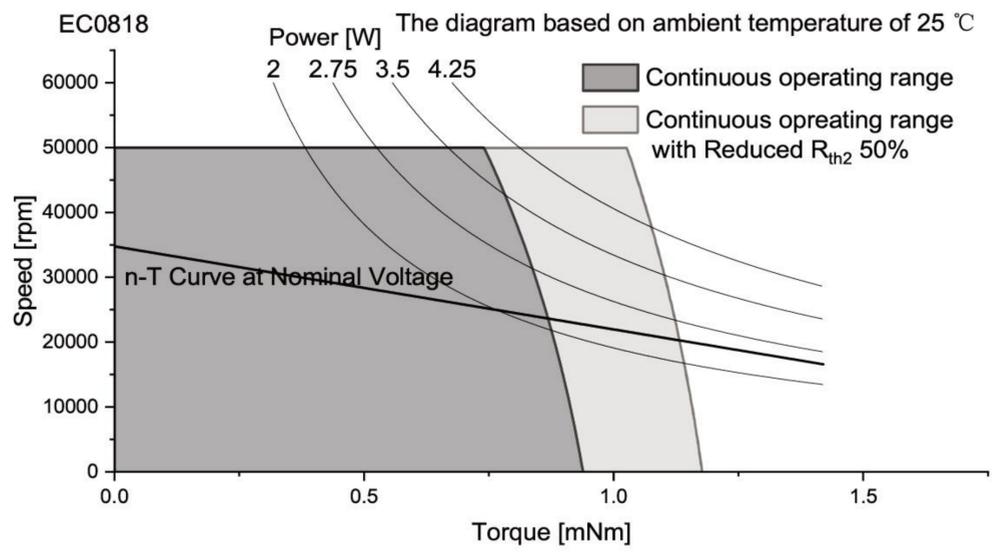


Motor data	Sensorless	EC0818L-...	0635	1235					
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Values at nominal voltage									
1 Nominal voltage	V		6	12					
2 No load speed	rpm		35118	34760					
3 No load current	mA		110	80					
4 Nominal speed	rpm		24754	24125					
5 Nominal torque	mNm		0.8	0.8					
6 Nominal current	A		0.63	0.35					
7 Stall torque	mNm		2.71	2.61					
8 Stall current	A		1.88	0.95					
9 Max. efficiency	%		57.4	50.3					
10 Terminal resistance	Ω		3.2	12.68					
11 Terminal inductance	mH		0.033	0.131					
12 Torque constant	mNm/A		1.54	3.02					
13 Speed constant	rpm/V		6218	3164					
14 Speed/torque gradient	rpm/mNm		12955	13294					
15 Mechanical time constant	ms		4.3	4.5					
16 Rotor inertia	gcm ²		0.032	0.032					

17 Thermal resistance housing-ambient	54.0 K/W
18 Thermal resistance winding-housing	20.0 K/W
19 Thermal time constant winding	3.3 s
20 Thermal time constant motor	175.9 s
21 Ambient temprature	-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	5.4 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