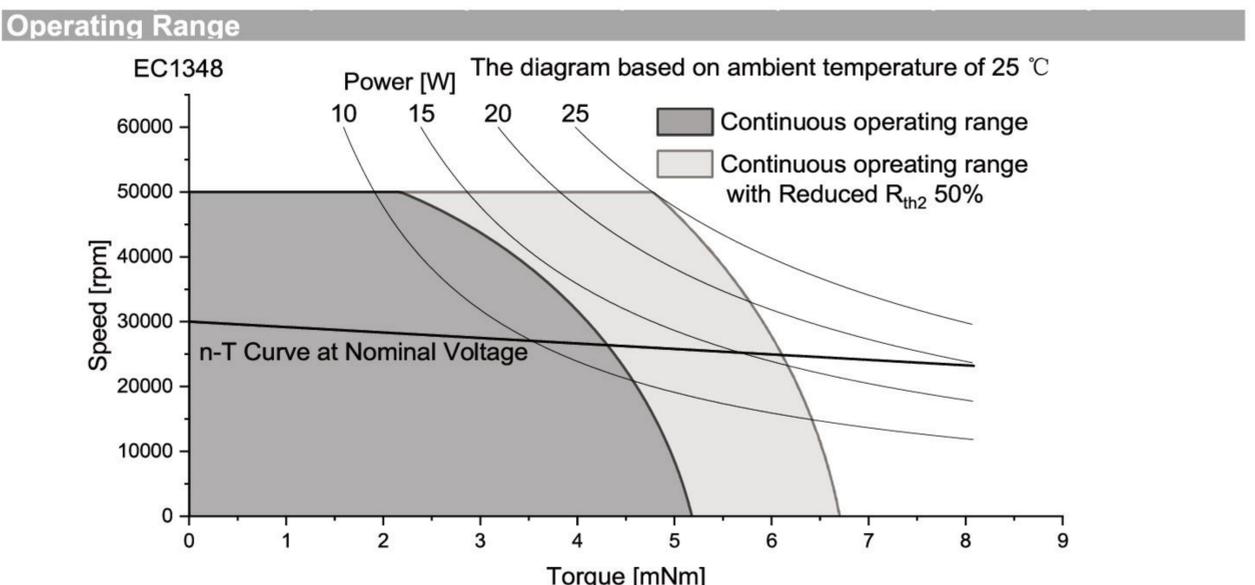


	Sensorless	EC1348L-...	0630	1230	2430				
	With hall sensor	EC1348S-...							
<b>Motor data</b>									
<b>Values at nominal voltage</b>									
1	Nominal voltage	V	6	12	24				
2	No load speed	rpm	30138	30255	30088				
3	No load current	mA	240	135	67				
4	Nominal speed	rpm	25858	26308	26201				
5	Nominal torque	mNm	4.5	4.5	4.5				
6	Nominal current	A	2.64	1.34	0.67				
7	Stall torque	mNm	31.68	34.49	34.83				
8	Stall current	A	17.14	9.38	4.71				
9	Max. efficiency	%	77.7	77.4	77.6				
10	Terminal resistance	$\Omega$	0.35	1.28	5.1				
11	Terminal inductance	mH	0.012	0.048	0.189				
12	Torque constant	mNm/A	1.87	3.73	7.51				
13	Speed constant	rpm/V	5094	2558	1272				
14	Speed/torque gradient	rpm/mNm	951	877	864				
15	Mechanical time constant	ms	4.1	3.8	3.7				
16	Rotor inertia	gcm <sup>2</sup>	0.41	0.41	0.41				

17	Thermal resistance housing-ambient	23.5 K/W
18	Thermal resistance winding-housing	5.6 K/W
19	Thermal time constant winding	6.7 s
20	Thermal time constant motor	362 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	34.0 g



Connection		Configuration	
<b>Connection A (Sensor)</b>		Performance: Customized in the continuous operating range	
Pin 1	Vhall 3-18 VDC	PTFE	Ball bearing: Preload
Pin 2	Hall sensor HA	AWG30 red	Flange: Standard frange front&back/customize the frange
Pin 3	Hall sensor HB	AWG30 Yellow	Shaft: Length/Diameter/Cut face/double shaft/hollow shaft
Pin 4	Hall sensor HC	AWG30 Green	Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length
Pin 5	GND	AWG30 blue	Connector: JST/MOLEX/TE
Pin 6	Motor winding MA	AWG30 black	
Pin 7	Motor winding MB	AWG30 Yellow	
Pin 8	Motor winding MC	AWG30 Green	
Conector			
MX 1.25-8Y			
<b>Connection B (Sensorless)</b>			
Pin 1	Motor winding MA	PVC yellow	
Pin 2	Motor winding MB	AWG28 green	
Pin 3	Motor winding MC	AWG28 blue	