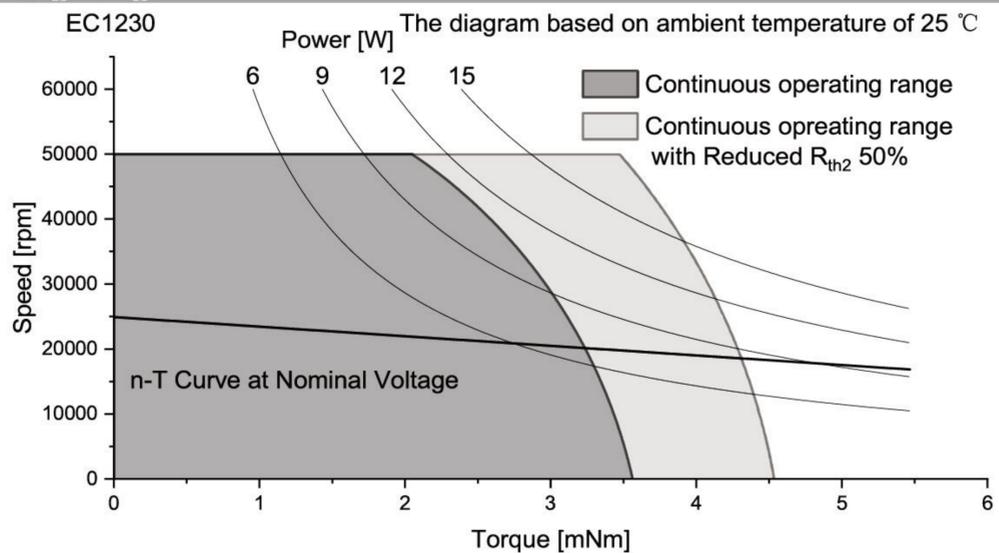


	Sensorless	EC1230L-...	0625	0925	1225				
	With hall sensor	EC1230S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	6	9	12				
2	No load speed	rpm	25310	25100	24930				
3	No load current	mA	122	90	72				
4	Nominal speed	rpm	20689	20565	20449				
5	Nominal torque	mNm	3	3	3				
6	Nominal current	A	1.47	0.98	0.74				
7	Stall torque	mNm	16.43	16.61	16.69				
8	Stall current	A	7.50	5.03	3.77				
9	Max. efficiency	%	76.1	75.0	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	1540	1512	1494				
15	Mechanical time constant	ms	5.2	5.1	5.0				
16	Rotor inertia	gcm ²	0.32	0.32	0.32				

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	-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	16.3 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