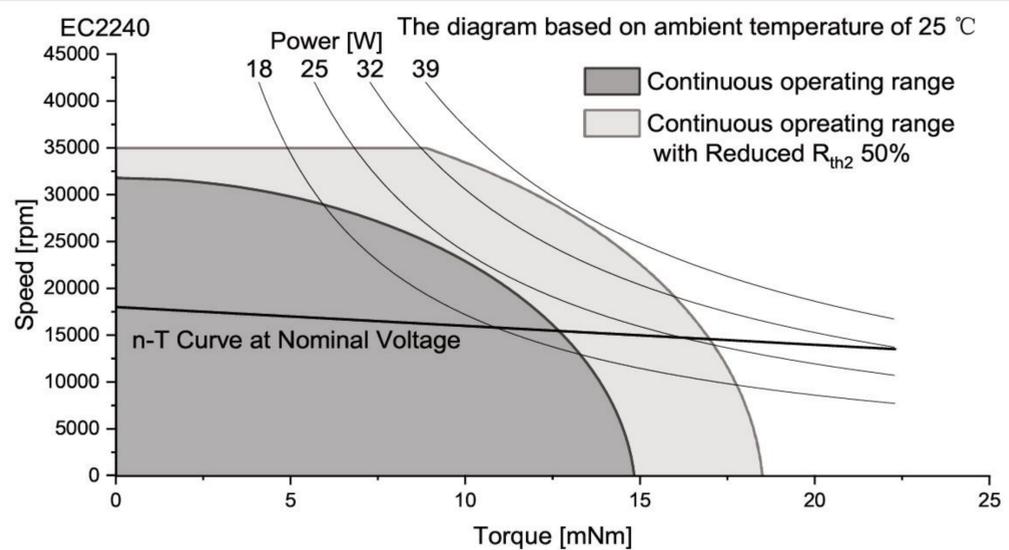


	Sensorless	EC2240L-...	1216	2416	3016	3616
	With hall sensor	EC2240S-...				
Motor data						
Values at nominal voltage						
1	Nominal voltage	V	12	24	30	36
2	No load speed	rpm	16748	16768	16713	16679
3	No load current	mA	183	115	87	73
4	Nominal speed	rpm	14354	14337	14360	14128
5	Nominal torque	mNm	12	12	12	12
6	Nominal current	A	1.96	1.01	0.80	0.67
7	Stall torque	mNm	83.94	82.76	85.25	78.47
8	Stall current	A	12.63	6.28	5.15	3.95
9	Max. efficiency	%	77.4	74.8	75.7	74.7
10	Terminal resistance	Ω	0.95	3.82	5.83	9.11
11	Terminal inductance	mH	0.07	0.28	0.44	0.64
12	Torque constant	mNm/A	6.74	13.42	16.85	20.23
13	Speed constant	rpm/V	1416	712	567	472
14	Speed/torque gradient	rpm/mNm	200	203	196	213
15	Mechanical time constant	ms	4.8	4.9	4.7	5.1
16	Rotor inertia	gcm ²	2.3	2.3	2.3	2.3

17	Thermal resistance housing-ambient	12.7 K/W
18	Thermal resistance winding-housing	5.0 K/W
19	Thermal time constant winding	12 s
20	Thermal time constant motor	420 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	35000 rpm
24	Axial play at axial load	<4 N 0 mm >4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	64 g

Operating Range



Connection

Connection A (Sensor)		
Pin 1	Vhall 3-18 VDC	AWG26 black
Pin 2	Hall sensor HA	AWG26 black
Pin 3	Hall sensor HB	AWG26 black
Pin 4	Hall sensor HC	AWG26 black
Pin 5	GND	AWG26 black
Pin 6	Motor winding MA	AWG26 black
Pin 7	Motor winding MB	AWG26 black
Pin 8	Motor winding MC	AWG26 black
Conector: JST PH2.0-8P		

Connection B (Sensorless)		
Pin 1	Motor winding MA	AWG26 yellow
Pin 2	Motor winding MB	AWG26 green
Pin 3	Motor winding MC	AWG26 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