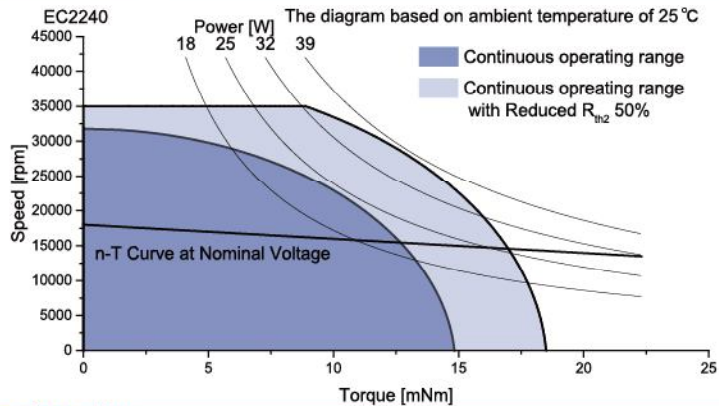


		Sensorless	EC2240L-...	1216	2416	3016	3616			
		With hall sensor	EC2240S-...							
Motor data										
Values at nominal voltage										
1	Nominal voltage	V		12	24	30	36			
2	No load speed	rpm		16748	16768	16713	16679			
3	No load current	mA		183	115	87	73			
4	Nominal speed	rpm		14354	14337	14360	14128			
5	Nominal torque	mNm		12	12	12	12			
6	Nominal current	A		1.96	1.01	0.8	0.67			
7	Stall torque	mNm		83.9	82.8	85.2	78.5			
8	Stall current	A		12.6	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	13.4	16.9	20.2			
13	Speed constant	rpm/V		1416	712	567	472			
14	Speed/torque gradient	rpm/mNm		200	203	196	213			
15	Mechanical time constant	ms		4.7	4.8	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	PVC	
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
Connector		
JST PH2.0-8P		

Connection B (Sensorless)		
Pin 1 Motor winding MA	PVC	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