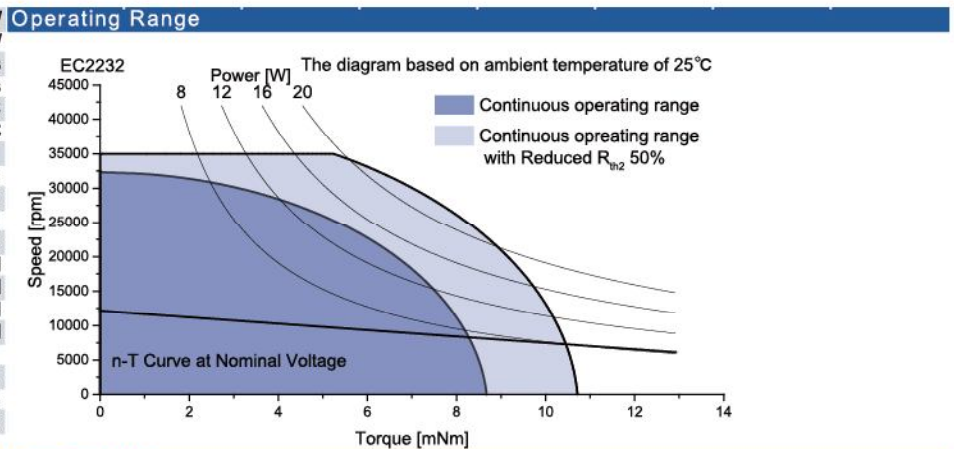


	Sensorless	EC2232L-...	0612	1212	1812	2412
	With hall sensor	EC2232S-...				
Motor data						
Values at nominal voltage						
1	Nominal voltage	V	6	12	18	24
2	No load speed	rpm	11700	11184	12080	12164
3	No load current	mA	230	150	86	60
4	Nominal speed	rpm	9585	9023	9937	9358
5	Nominal torque	mNm	6	6	6	6
6	Nominal current	A	1.5	0.76	0.52	0.39
7	Stall torque	mNm	33.2	31.1	33.8	26
8	Stall current	A	7.23	3.32	2.55	1.5
9	Max. efficiency	%	67.5	62	66.6	64
10	Terminal resistance	Ω	0.83	3.61	7.07	16
11	Terminal inductance	mH	0.08	0.28	0.66	1.72
12	Torque constant	mNm/A	4.74	9.78	13.7	18.1
13	Speed constant	rpm/V	2014	976	695	528
14	Speed/torque gradient	rpm/mNm	353	360	357	468
15	Mechanical time constant	ms	5.5	5.6	5.6	7.3
16	Rotor inertia	gcm ²	1.5	1.5	1.5	1.5

17	Thermal resistance housing-ambient	15.2 K/W
18	Thermal resistance winding-housing	6.0 K/W
19	Thermal time constant winding	11 s
20	Thermal time constant motor	383 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	48 g



Connection		Configuration	
Connection A (Sensor)		PVC	
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
Connector		JST PH2.0-8P	
Connection B (Sensorless)		PVC	
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