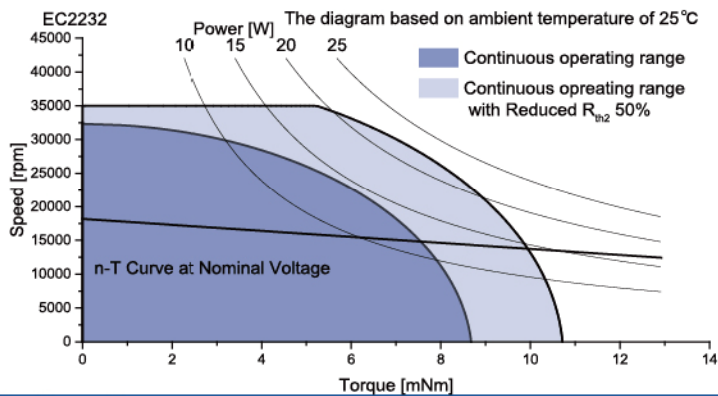


	Sensorless With hall sensor	EC2232L-... EC2232S-...	1218	1818	2418	3018			
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	18	24	30			
2	No load speed	rpm	18247	18053	18180	17595			
3	No load current	mA	155	103	86	72			
4	Nominal speed	rpm	15804	15660	15497	14804			
5	Nominal torque	mNm	6	6	6	6			
6	Nominal current	A	1.13	0.75	0.57	0.45			
7	Stall torque	mNm	44.8	45.3	40.7	37.8			
8	Stall current	A	7.44	4.96	3.39	2.47			
9	Max. efficiency	%	73.2	73.3	70.7	68.7			
10	Terminal resistance	Ω	1.61	3.63	7.07	12.2			
11	Terminal inductance	mH	0.10	0.22	0.41	0.66			
12	Torque constant	mNm/A	6.15	9.32	12.3	15.8			
13	Speed constant	rpm/V	1553	1024	777	604			
14	Speed/torque gradient	rpm/mNm	407	399	447	465			
15	Mechanical time constant	ms	6.4	6.2	7.0	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	-40...+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

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
Connector: 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 within 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