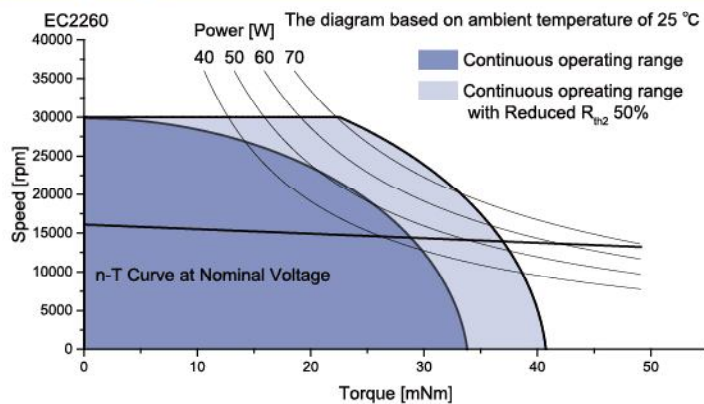


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		Sensorless With hall sensor	EC2260L-...	1216	2416	3616	4816		
Motor data									
Values at nominal voltage									
1	Nominal voltage	V		12	24	36	48		
2	No load speed	rpm		16360	16086	16030	16200		
3	No load current	mA		440	230	170	110		
4	Nominal speed	rpm		14517	14441	14364	14530		
5	Nominal torque	mNm		28	28	28	28		
6	Nominal current	A		4.49	2.22	1.49	1.11		
7	Stall torque	mNm		249	274	269	272		
8	Stall current	A		36.4	19.7	12.9	9.82		
9	Max. efficiency	%		79.2	79.5	78.4	79.9		
10	Terminal resistance	Ω		0.33	1.22	2.79	4.89		
11	Terminal inductance	mH		0.03	0.13	0.30	0.52		
12	Torque constant	mNm/A		6.92	14.1	21.2	28		
13	Speed constant	rpm/V		1380	678	451	341		
14	Speed/torque gradient	rpm/mNm		65.8	58.8	59.5	59.7		
15	Mechanical time constant	ms		3.1	2.8	2.8	2.8		
16	Rotor inertia	gcm ²		4.5	4.5	4.5	4.5		

17	Thermal resistance housing-ambient	7.6 K/W
18	Thermal resistance winding-housing	4.6 K/W
19	Thermal time constant winding	29 s
20	Thermal time constant motor	533 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	30000 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	122 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 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