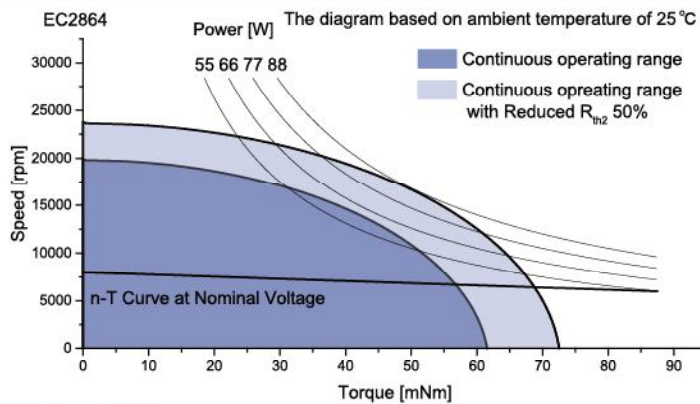


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	Sensorless	EC2864L-...	1208	2408	3608	4808			
	With hall sensor	EC2864S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	7956	8014	8275	7960			
3	No load current	mA	182	104	92	59			
4	Nominal speed	rpm	6712	6840	7053	6782			
5	Nominal torque	mNm	50	50	50	50			
6	Nominal current	A	3.68	1.87	1.31	0.94			
7	Stall torque	mNm	320	341	339	338			
8	Stall current	A	22.6	12.1	8.33	5.99			
9	Max. efficiency	%	82.8	82.3	80.1	81.1			
10	Terminal resistance	Ω	0.53	1.98	4.32	8.02			
11	Terminal inductance	mH	0.11	0.46	0.96	1.83			
12	Torque constant	mNm/A	14.3	28.4	41.1	57			
13	Speed constant	rpm/V	668	337	232	167			
14	Speed/torque gradient	rpm/mNm	24.9	23.5	24.4	23.6			
15	Mechanical time constant	ms	2.5	2.4	2.5	2.4			
16	Rotor inertia	gcm ²	9.6	9.6	9.6	9.6			

17	Thermal resistance housing-ambient	5.5 K/W
18	Thermal resistance winding-housing	4 K/W
19	Thermal time constant winding	56 s
20	Thermal time constant motor	521 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	25000 rpm
24	Axial play at axial load <8 N	0 mm
	>8 N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	7.5 N
27	Max. force for press fits (static)	100 N
	(static, shaft supported)	2000 N
28	Max. radial loading, 5mm from flange	25 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	195 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