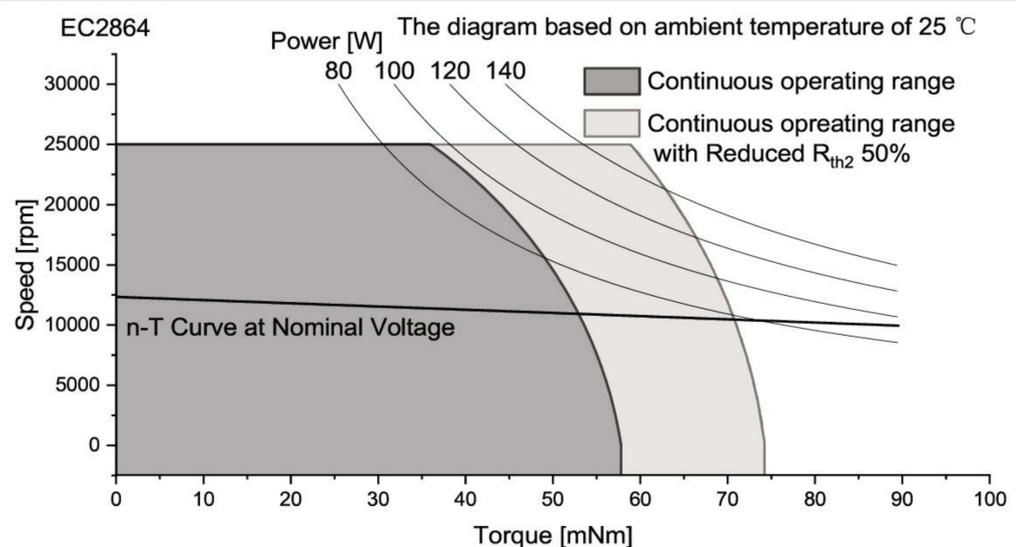


**M 1:1.5**

		EC2864L-...	1212	2412	3612	4812
<b>Motor data</b>						
	Sensorless	EC2864S-...				
	With hall sensor					
<b>Values at nominal voltage</b>						
1	Nominal voltage	V	12	24	36	48
2	No load speed	rpm	12210	12100	12021	12305
3	No load current	mA	460	240	170	120
4	Nominal speed	rpm	10828	10853	10843	11008
5	Nominal torque	mNm	50	50	50	50
6	Nominal current	A	5.84	2.90	1.93	1.47
7	Stall torque	mNm	441.89	485.06	510.28	474.35
8	Stall current	A	48.00	26.09	18.18	12.97
9	Max. efficiency	%	81.4	81.7	81.6	81.7
10	Terminal resistance	$\Omega$	0.25	0.92	1.98	3.7
11	Terminal inductance	mH	0.11	0.46	0.46	0.96
12	Torque constant	mNm/A	9.30	18.77	28.33	36.91
13	Speed constant	rpm/V	1027	509	337	259
14	Speed/torque gradient	rpm/mNm	28	25	24	26
15	Mechanical time constant	ms	2.8	2.5	2.4	2.6
16	Rotor inertia	gcm <sup>2</sup>	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**

<b>Connection A (Sensor)</b>		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
Conector		JST PH2.0-8P

<b>Connection B (Sensorless)</b>		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