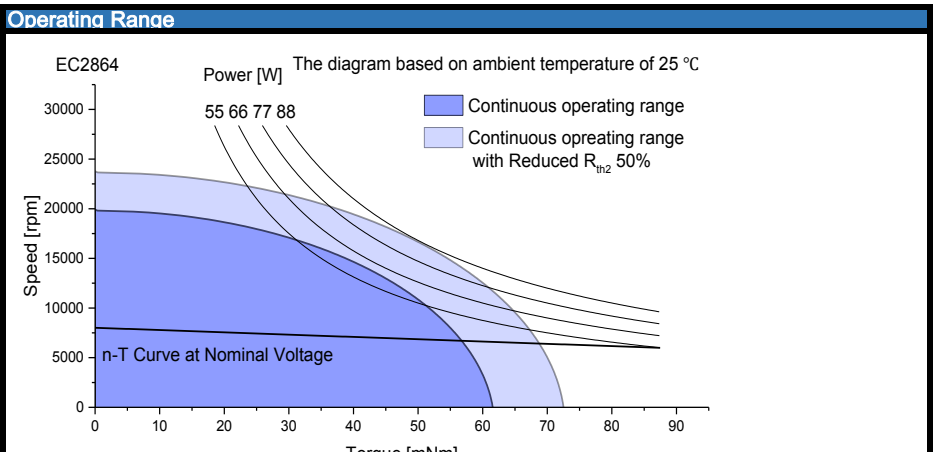


M 1:1

	Sensorless With hall sensor	EC2864L-... EC2864S-...	1208	2408	3608	4808			
Motor Data									
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	2,37			
16	Rotor inertia	gcm ²	9,6	9,6	9,6	9,62			

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	-40...+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



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	PTFE 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