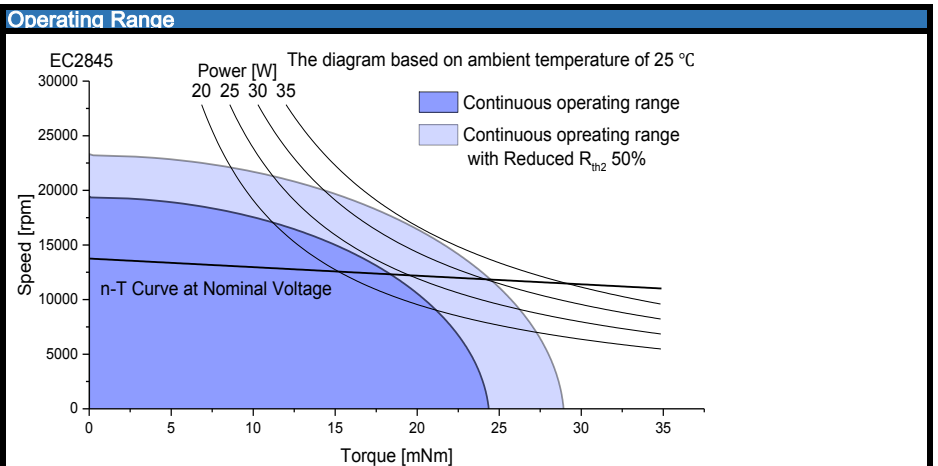


M 1:1

	Sensorless With hall sensor	EC2845L-... EC2845S-...	1213	2413	3613	4813			
Motor Data									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	13737	13756	13783	13400			
3	No load current	mA	202	128	84	79			
4	Nominal speed	rpm	12232	12342	12432	11903			
5	Nominal torque	mNm	18	18	18	18			
6	Nominal current	A	2,38	1,22	0,81	0,61			
7	Stall torque	mNm	164	175	184	161			
8	Stall current	A	20,1	10,8	7,53	4,87			
9	Max. efficiency	%	81	79,4	80	76,1			

10	Terminal resistance	Ω	0,6	2,23	4,78	9,86			
11	Terminal inductance	mH	0,08	0,34	0,73	1,47			
12	Torque constant	mNm/A	8,26	16,5	24,7	33,7			
13	Speed constant	rpm/V	1156	580	387	284			
14	Speed/torque gradient	rpm/mNm	83,6	78,6	75	83,1			
15	Mechanical time constant	ms	4,5	4,3	4,1	4,52			
16	Rotor inertia	gcm ²	5,2	5,2	5,2	5,19			

17	Thermal resistance housing-ambient	9.6 K/W
18	Thermal resistance winding-housing	6.3 K/W
19	Thermal time constant winding	37 s
20	Thermal time constant motor	584 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	120 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