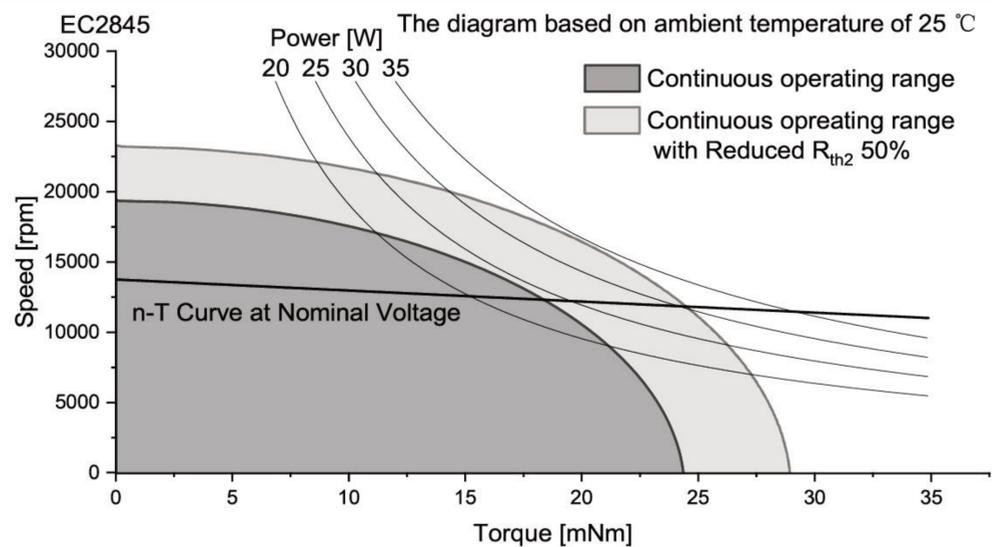


M 1:1.5

		EC2845L-...	1213	2413	3613	4813
Motor data						
	Sensorless	EC2845S-...				
	With hall sensor					
Values at nominal voltage						
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	12225	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	163.48	175.07	183.68	161.16
8	Stall current	A	20.00	10.76	7.53	4.87
9	Max. efficiency	%	80.9	79.4	80.0	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	16.46	24.66	33.65
13	Speed constant	rpm/V	1156	580	387	284
14	Speed/torque gradient	rpm/mNm	84	79	75	83
15	Mechanical time constant	ms	4.6	4.3	4.1	4.5
16	Rotor inertia	gcm ²	5.2	5.2	5.2	5.2

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	-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	120 g

Operating Range



Connection

Connection A (Sensor)		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

Connection B (Sensorless)		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