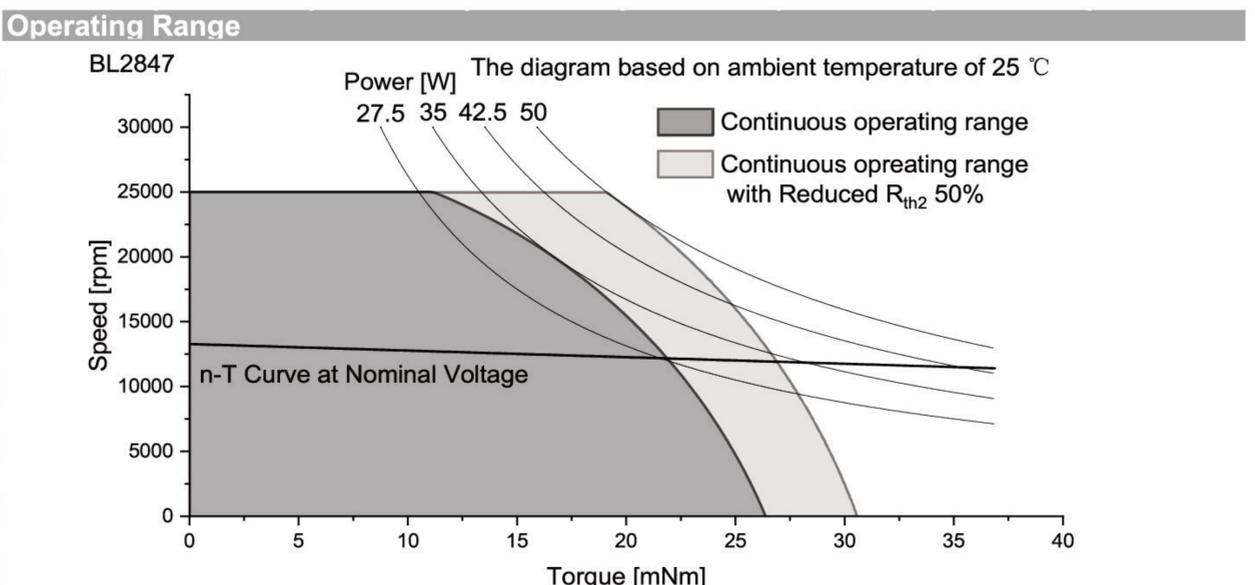


	Sensorless	BL2847L-...	2413	3613					
	With hall sensor	BL2847S-...							
<b>Motor data</b>									
<b>Values at nominal voltage</b>									
1	Nominal voltage	V	24	36					
2	No load speed	rpm	13108	13279					
3	No load current	mA	140	80					
4	Nominal speed	rpm	11992	12095					
5	Nominal torque	mNm	20	20					
6	Nominal current	A	1.30	0.86					
7	Stall torque	mNm	234.91	224.31					
8	Stall current	A	13.71	8.82					
9	Max. efficiency	%	80.8	81.9					
10	Terminal resistance	$\Omega$	1.75	4.08					
11	Terminal inductance	mH	0.16	0.61					
12	Torque constant	mNm/A	17.31	25.65					
13	Speed constant	rpm/V	552	372					
14	Speed/torque gradient	rpm/mNm	56	59					
15	Mechanical time constant	ms	3.3	3.5					
16	Rotor inertia	gcm <sup>2</sup>	5.6	5.6					

17	Thermal resistance housing-ambient	11 K/W
18	Thermal resistance winding-housing	10 K/W
19	Thermal time constant winding	43 s
20	Thermal time constant motor	606 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	2
30	Number of phases	3
31	Weight of motor	101 g



Connection			Configuration
<b>Connection A (Sensor)</b>			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
Pin 1	Vhall 3-18 VDC	AWG30 red	
Pin 2	Hall sensor HA	AWG30 yellow	
Pin 3	Hall sensor HB	AWG30 green	
Pin 4	Hall sensor HC	AWG30 blue	
Pin 5	GND	AWG30 black	
Conector			
JST PH1.0-5P			
Pin 6	Motor winding MA	AWG26 yellow	
Pin 7	Motor winding MB	AWG26 green	
Pin 8	Motor winding MC	AWG26 blue	
<b>Connection B (Sensorless)</b>			
Pin 1	Motor winding MA	AWG26 yellow	
Pin 2	Motor winding MB	AWG26 green	
Pin 3	Motor winding MC	AWG26 blue	