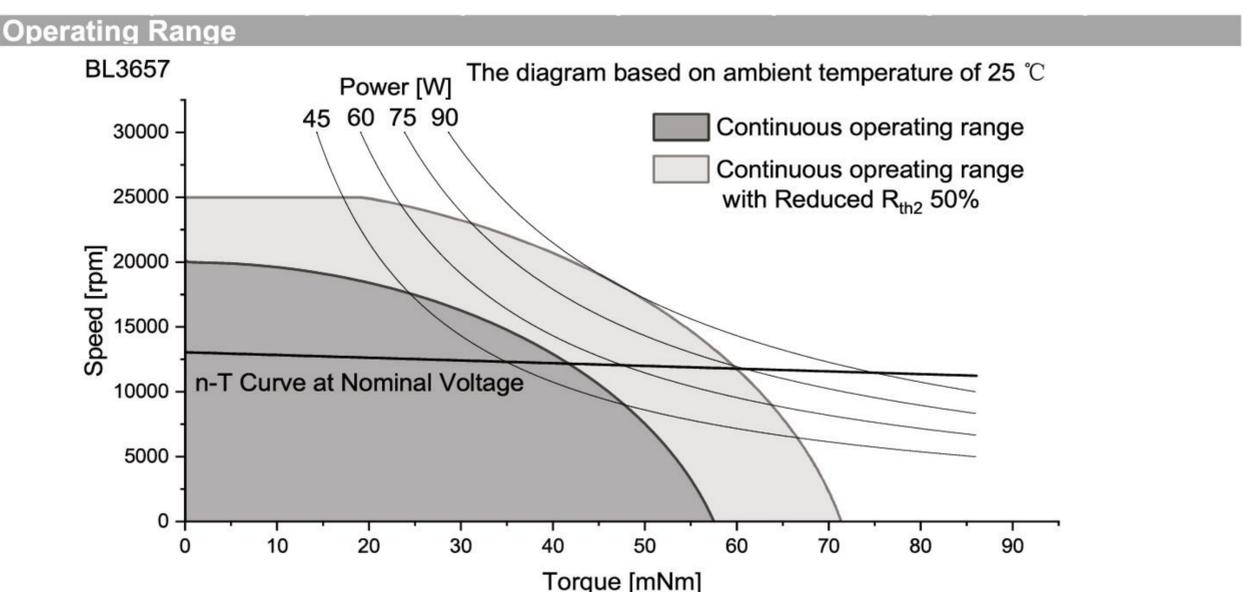


	Sensorless	BL3657L-...	2413	3613					
	With hall sensor	BL3657S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	24	36					
2	No load speed	rpm	13150	13022					
3	No load current	mA	265	190					
4	Nominal speed	rpm	12230	12170					
5	Nominal torque	mNm	40	40					
6	Nominal current	A	2.58	1.72					
7	Stall torque	mNm	571.75	611.17					
8	Stall current	A	33.33	23.53					
9	Max. efficiency	%	83.0	82.8					
10	Terminal resistance	Ω	0.72	1.53					
11	Terminal inductance	mH	0.48	1.05					
12	Torque constant	mNm/A	17.29	26.19					
13	Speed constant	rpm/V	552	365					
14	Speed/torque gradient	rpm/mNm	23	21					
15	Mechanical time constant	ms	4.6	4.2					
16	Rotor inertia	gcm ²	19	19					

17	Thermal resistance housing-ambient	8 K/W
18	Thermal resistance winding-housing	3.4 K/W
19	Thermal time constant winding	26 s
20	Thermal time constant motor	864 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)	2700 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	223 g



Connection			Configuration	
Conection A (Sensor)	PVC		Performance: Customized in the continuous operating range	
Pin 1	Vhall 3-18 VDC	AWG26 black	Ball bearing: Preload	
Pin 2	Hall sensor HA	AWG26 black	Flange: Standard frange front&back/customize the frange	
Pin 3	Hall sensor HB	AWG26 black	Shaft: Length/Diameter/Cut face/double shaft/hollow shaft	
Pin 4	Hall sensor HC	AWG26 black	Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length	
Pin 5	GND	AWG26 black	Connector: JST/MOLEX/TE	
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				
Conection B (Sensorless)	PVC			
Pin 1	Motor winding MA	AWG26 yellow		
Pin 2	Motor winding MB	AWG26 green		
Pin 3	Motor winding MC	AWG26 blue		