

# Brushless DC Motor

## 80BL Series

### General Specifications

Winding Type	Star
Hall Effect Angle	120° Electrical Angle
Insulation Class	B
Ambient Temperature Range	-20°C ~ +50°C
Insulation Resistance	100 MΩ Min. 500 VDC
Dielectric Strength	1000 VAC 1 minute

**Customized solutions on request.**

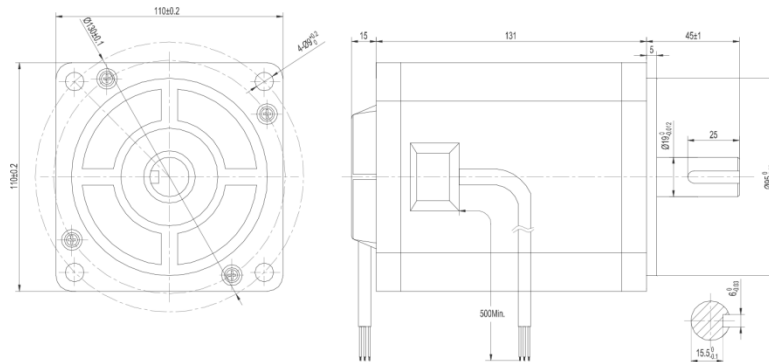


### Electrical Specifications

Model		110BLF01
Number of Poles		8
Number of Phases		3
Rated Voltage	VDC	310
Rated Speed	RPM	3000
Rated Torque	Nm	3
Rated Current	A	5
Output Power	W	940
Peak Torque	Nm	9
Peak Current	A	15
Torque Constant	Nm/A	0.74
Back EMF	V/KRPM	77.5
Rotor Inertia	gcm <sup>2</sup>	3
Body Length	mm	143
Mass	kg	6

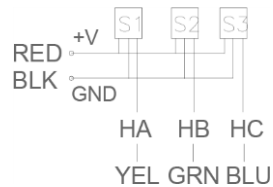
Caution: Peak Torque is provided for the purpose of performance calculations only. Operating near, or at this condition can result in motor damage.

### Mechanical Dimensions



### Connection diagram

#### Hall Sensor Cable



#### Wiring Cable



Note: Hall Sensor Power Supply voltage +5 to +20 VDC