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## 2.5KW 72V Hall Sensor Brushless DC Motor

Model Number:	VOL-BL250A72
Type:	Brushless DC Motor
Output Power:	2.5KW
DC Voltage:	72V
Speed Range:	1500 RPM
Poles:	4P, 6P, 8P...

### Detailed information

Brand Name:	Volcano Electric	Model Number:	VOL-BL250A72	Type:	Brushless DC Motor
Output Power:	2.5KW	DC Voltage:	72V	Speed Range:	1500 RPM
Controller:	Customized, Optional	Braker:	Optional	Insulation Class:	Class B/F/H
Enclosure:	IP44 / IP54	Poles:	4P, 6P, 8P...	Wire:	100% copper
Housing:	Aluminum	Efficiency:	up to 90%		
Duty:	S1 (continuous)	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC standard or NEMA standard
Application:	Boat, Car, EV, Fan, Home Appliance, Traction Motor, Pump, bus A/C systems ,Other				

### Product Description

Brushless dc motors have many similarities to AC induction motors and brushed DC motors in terms of construction and working principles respectively. Like all other motors, BLDC motors also have a rotor and a stator. The BLDC motor stator is made out of Silicon steel sheet stacked up to carry the windings and the rotor is made out of permanent magnets.

BLDC motors are a derivative of the most commonly used DC motor, the brushed DC motor, and they share the same torque and speed performance curve characteristics. The major difference between the two is the use of brushes. BLDC motors do not have brushes (hence the name “brushless DC” ) and must be electronically commutated. This change make the brushless dc motor can provide more efficiency than brushed DC motor and less maintenance cost.

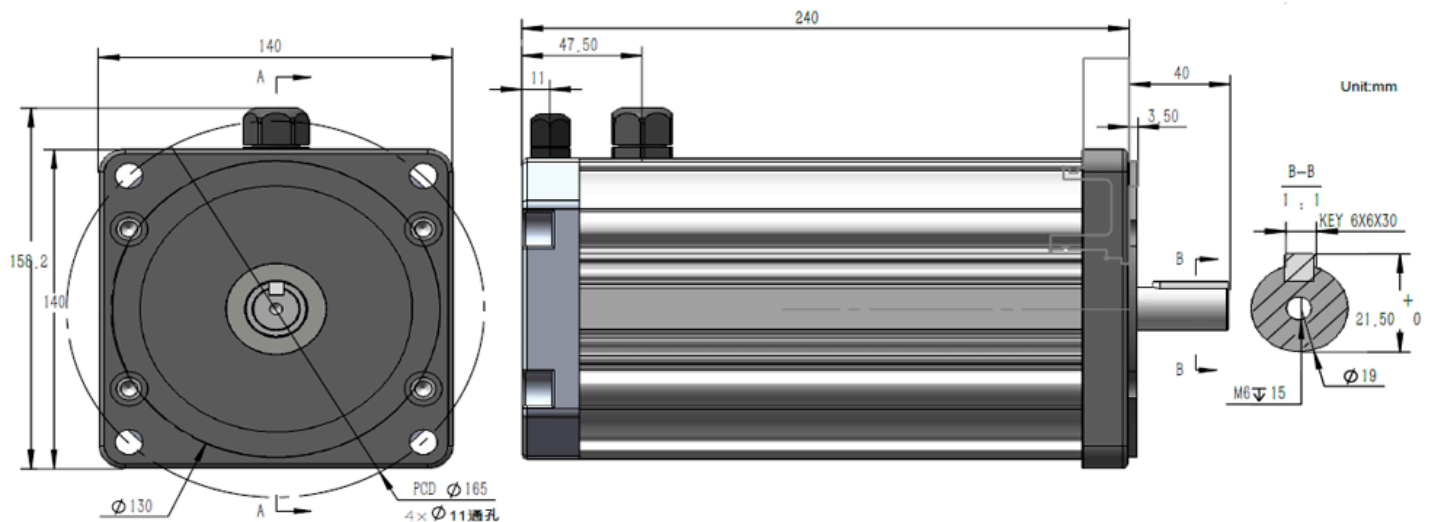
2.5KW 72V Hall Sensor Brushless DC Motor is one of our popular project. It is widely used for elective vehicle such as e-bike, electric tricycle, golf cart, electric sightseeing, small cars and so on.

### How to Select a Brushless DC Motor

Selecting the appropriate Brushless DC Motor requires knowing the requirements of the application, such as torque, speed, size, power, length, etc. While determining which Brushless DC Motor best fits the requirements, the controller must be considered as well, as this goes hand in hand with the operation of the Brushless DC Motor.

Lastly, environment is important to consider. Applications requiring a harsh, damp environment may require motors with specific IP ratings.

### Configuration



\*CAN MAKE ACCORDING TO YOUR REQUIRMENT

### Brushless motor list

Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
VOL-BL155C45	1.55	45	40	4300	3.44	8	86	60
VOL-BL180C60	1.8	60	32.6	1100	15.6	8	92	61
VOL-BL185C24	1.85	24	81.5	2100	8.41	8	92	60
VOL-BL250A72	2.5	72	37.74	1500	15.92	8	92	60
VOL-BL270C60	2.7	60	48.9	1100	23.4	8	92	61.5
VOL-BL280C60	2.8	60	50.8	1100	24.3	8	92	61.5
VOL-BL280C48	2.8	48	67.8	2600	10.3	8	86	61
VOL-BL300C48	3.0	48	67.6	2650	10.81	8	92.5	61
VOL-BL300C72	3.0	72	46.8	1850	15.5	8	89	61
VOL-BL350C60	3.5	60	69.5	1680	19.9	8	84	61
VOL-BL400C48	4.0	48	90.6	2580	14.81	8	92	62
VOL-BL550C72	5.5	72	85.6	3680	14.27	8	89.2	63

### Advantages of Brushless DC motor:

- Lower Maintenance and longer lifetime - no brush and commutator erosion
- Lower noise - the elimination of brush contact
- Higher power to weight ratio

- Higher efficiency ( in general higher than 90%)
- Lower temperature rise - more efficient heat dissipation due to winding construction
- Reduction of EMI

For customized DC Motors, please contact our technician, Ordinary, we have to know the following information to get a professional proposal:

- **Brushed or Brushless** Customer preference
- **Output power (W)** Horsepower/watts/torque rated at full load speed
- **Voltage (V)** i.e 12v DC ..... 220v AC
- **Motor speed (RPM)** Revolutions per minute of the shaft at full load Voltage
- **Application** e.g. traction, airconditioning, etc.
- **Duty** Most motors are rated continuous. Some applications however may use motors designed for intermittent duty
- **Configuration/Frame** Our products are according to IEC standard, we also can customize the flange and shaft according to the customer drawing
- **Controller function** e.g. forward/reverse, variable speed, acceleration profile, etc.

Previous 3.7KW 60V 3600RPM Electric Brushless DC Motor

Next 800W 60V 1800RPM Brushless DC electric Motor

You may like:

				
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3.7KW 60V 3600RPM Electric Brushless DC Motor	2.8KW 48V Sensorless BLDC Motor Driver	1.5 KW Brushless DC motors IEC 90L Frame	2000W 60V 3000RPM Brushless DC Motor	



3750 RPM High Speed  
Brushless DC Electric Motor

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