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48v 1kw 3000rpm Brushless Dc Motor For Electric Vehicle

Model Number:	VOL-BL10B48
Type:	Brushless DC Motor
Output Power:	1KW
DC Voltage:	48V
Speed Range:	3000 RPM
Poles:	8P

Detailed information	
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Brand Name:	Volcano Electric	Model Number:	VOL-BL10B48	Type:	Brushless DC Motor
Output Power:	1KW	DC Voltage:	48V	Speed Range:	3000 RPM
Controller:	Customized, Optional	Braker:	Optional	Insulation Class:	Class F
Enclosure:	IP54	Poles:	8P	Wire:	100% copper Coil
Current:	36.76A	Sensor:	Hall sensor/ Magnetic encoder	Certification:	CE,UL,ROHS
Housing:	Aluminum frame	Efficiency:	90%		
Duty:	S1, S2, S3	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC / Customized
Application:	Boat, Car, Sightseeing cars, Home Appliance, Oil Pump, Electric Vehicle				

What is BLDC motor

Brushless dc motor also can be known as permanent magnet dc motor, EC motor. It power by DC current. Instead of the brushes and commutator, the BLDC motor through the electric commutator to make it change the direction. It need a driver to drive. The brushless dc motor is designed with high performance. Lots of consumers prefer to use it for electric vehicle because of its high start torque, smooth operation, lightweight.

Structure of BLDC motor

The brushless dc motor has two basic parts: stator and rotor. Different with the brushes dc motor, its rotor is surrounded by permanent magnet and stator with copper coil windings. But the brushes one with permanent magnet stator and winding rotor. At the same time, the brushless dc

motor can install with the hall sensors, encoders. For our motors, hall sensors are mostly used.

Product Description

The motor, 48V 1KW 3000RPM Brushless dc motor, is mostly used for Electric Vehicle. To replace the gas vehicle, people more like to use the electric vehicle. It's easier to power, higher start torque, much longer working time, less environmental pollution. Meanwhile, we can according to your using when it work at flat road or climbing to design the motor. To provide enough torque and high efficiency when it work.

Not only this specification, also can design the motor as your wish. Accept to customized .

We insist that quality and honesty come first. Waiting for you and feel free to contact our team at info@volcanomotor.com for any technical support.

Specifications

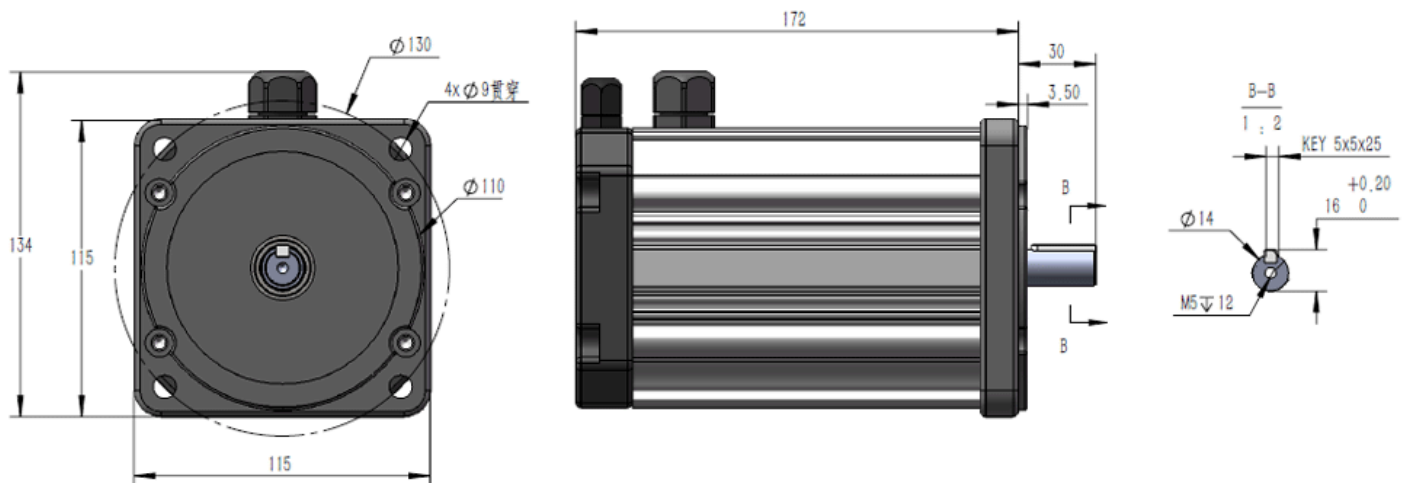
Motor type	VOL-BL10B48
Rated power	1KW
Rated speed	3000RPM
Rated torque	3.18N.m
Current	24.5A
Voltage	48V
Insulation class	Class F
Frequency	50Hz

What can we provide

We promises to provide the most suitable and high efficiency motors for you. The motor efficiency will no less than 80%. To provide the perfect product, we test the motors before ship it out.

For now, we develop the motor to make less heat. Not only by the fan, air cooling and liquid cooling.

Configuration



***CAN MAKE ACCORDING TO YOUR REQUIRMENT**

Brushless motor list

Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
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	KW	V	A	RPM	N.m		%	dB
VOL-BL03B12	0.375	12	36.76	3000	1.19	2	85	62
VOL-BL06C12	0.6	12	58.82	1800	3.18	2	85	62
VOL-BL07B24	0.75	24	36.76	3000	2.39	2	85	62
VOL-BL09C24	0.9	24	44.6	2600	3.31	8	84	60
VOL-BL10B48	1	48	24.5	3000	3.18	6	85	60
VOL-BL12C24	1.2	24	63.3	4200	2.73	8	79	60
VOL-BL125C24	1.25	24	62	3200	3.73	8	84	60
VOL-BL13C36	1.3	36	40.12	3200	3.88	8	90	60
VOL-BL15C24	1.5	24	73.5	2590	5.53	8	85	61

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
- Simple structure
- Higher speed range- no limit of brushes and commutator


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 1HP Output Power Permanent Magnet Motors](#)

[Next Super Premium Efficiency Permanent Magnet Motor](#)

You may like:

				
220V 750W 3000RPM 6P Brushless DC Motor	48V High Torque 1000W Hall Sensor EV Motor	30V 1000W IP54 Brushless DC EV Motor With Hall Sensor	BLDC 24V 1200W 2300RPM EV Motor High Efficiency	48V 1000W IP54 Brushless DC Motor Hall Sensor

				
24V Brushless DC Motor 3000rpm for Vehicle	24V 750W 3000RPM Brushless DC Motor	High efficiency 1000w 110v 1500rpm Brushless DC Motor	Custom 1.5KW 48V 1800RPM Brushless DC Motor	48V 750W 3000RPM Sensored Brushless DC Motor

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