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## Sensored 12v 0.5hp 3000rpm Bldc Motor

Model Number:	VOL-BL03B12
Type:	Brushless DC Motor
Output Power:	0.5HP
DC Voltage:	12V
Speed Range:	3000 RPM
Poles:	2P

Detailed information	
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Brand Name:	Volcano Electric	Model Number:	VOL-BL03B12	Type:	<a href="#">Brushless DC Motor</a>
Output Power:	0.5HP	DC Voltage:	12V	Speed Range:	3000 RPM
Controller:	Customized, Optional	Braker:	Optional	Insulation Class:	Class B/F
Enclosure:	IP54	Poles:	2P	Wire:	100% copper Coil
Current:	36.76A	Sensor:	Hall sensor, Magnetic encoder, Optional	Certification:	CE,UL,ROHS
Housing:	Aluminum frame	Efficiency:	85%		
Duty:	S1, S2, S3	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC / Customized
Application:	Boat, Car, Sightseeing cars, Home Appliance, Oil Pump, Vehicle, Drilling machine				

### Product Description

Sensored 12v 0.5hp 3000rpm BLDC motor is one of our hot selling products. This brushless dc motor has the ferrite magnet rotor and the stator with 100% copper coil. It makes the motor can provide more power and loss less efficient. For our motor, we can make it up to more than 90%. It' s higher than the other dc motor manufacturers who provide about 80% efficiency.

For this motor, it will hold from 12v dc. Provide 0.5hp(375w) power and the rated speed is 3000rpm. It' s suit for the drilling machines. Not only can design for S1 continuous work duty, also can be S2-30 minutes and S3. Just tell us your requirement.

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

### Specifications

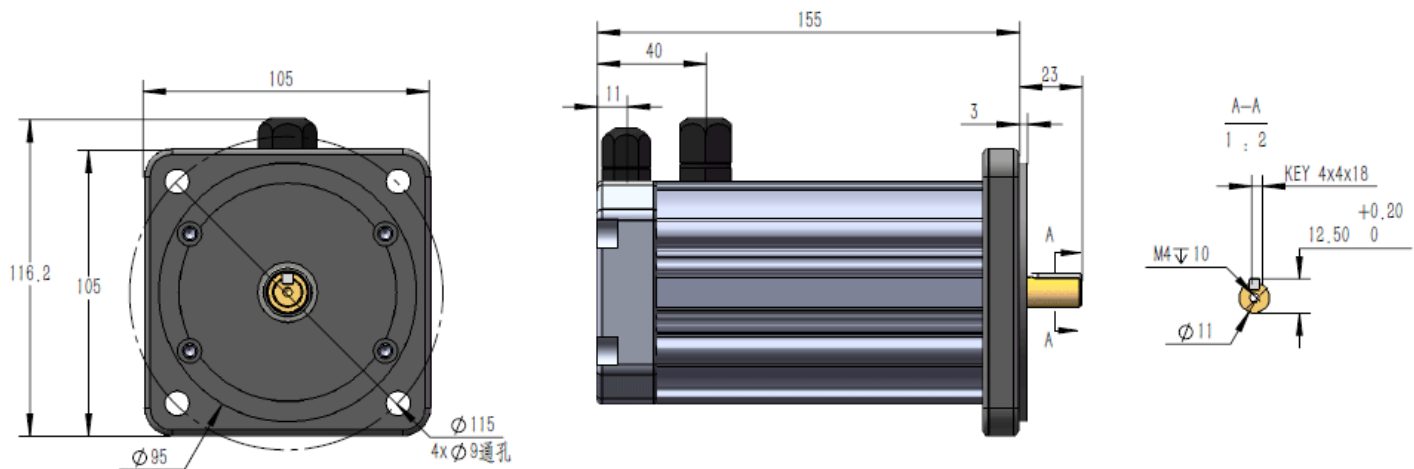
Motor type	VOL-BL03B12
Rated power	0.5HP
Rated speed	3000RPM
Rated torque	1.19N.m
Current	36.76A
Voltage	12V
Insulation class	Class F
Frequency	50/60Hz

### What can we provide

We, Volcano Electric, provide the one-stop service. Both have brushed dc motor and brushless dc motor. Meanwhile can provide the matching controller, gearbox and the battery, even other parts.

Our motor is used the IEC standard frame. Easy for your install. At the same time, we design it to be smaller. Bigger power can be used the smaller frame. No affect the efficiency and no overheat. You can have more place to install it with your machine or application.

### 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-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-BL075B24	0.75	24	36.76	3000	2.39	2	85	62
VOL-BL090C24	0.9	24	44.6	2600	3.31	8	84	60
VOL-BL100C48	1	48	24.5	2500	3.82	8	85	60
VOL-BL120C24	1.2	24	63.3	4200	2.73	8	79	60
VOL-BL125C24	1.25	24	62	3200	3.73	8	84	60
VOL-BL130C36	1.3	36	40.12	3200	3.88	8	90	60
VOL-BL150C24	1.5	24	73.5	2590	5.53	8	85	61

### Advantages of Brushless DC motor:

- Lower Maintainance 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 24V Brushless DC Motor 3000rpm for Vehicle

Next 24V 750W 3000RPM Brushless DC Motor

You may like:

				
Hall Sensor BLDC Motor 370W 12V For EV Application	24v 500w Higher Efficiency Hallsensor Bldc Motor	76V 400W 2000RPM IP54 BLDC Motor	12V 1000W 1500RPM BLDC Motor With Hall Sensor	12v 600w 1800rpm Brushless Dc Motor With Hall Sensors
				
Customized 700W 24V Brushless DC Motor	1500RPM 400W 12V High torque Brushless DC Motor	600W 1800RPM 48V DC Brushless Motor	150W Brushless DC Motor In Textile Machinery	560W 24V 2250RPM Brushless DC Motor

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