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150W Brushless DC Motor In Textile Machinery

Model Number:	BLDC0.150-47
Type:	BLDC Motor
Output Power:	50W-180W
DC Voltage:	70V DC
Speed Range:	5000 RPM
Poles:	10 poles

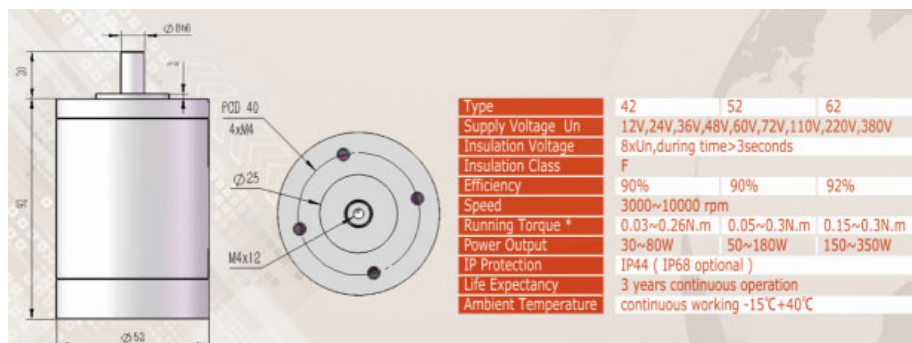
Detailed information

Brand Name:	Volcano Electric	Model Number:	BLDC0.150-47	Type:	BLDC Motor
Output Power:	50W-180W	Voltage:	70V DC	Speed Range:	5000 RPM
Controller:	Customized, Optional	Braker:	Optional	Insulation Class:	Class F
Enclosure:	IP44 (IP68 Optional)	Poles:	10 poles	Wire:	100% copper
Housing:	Aluminum	Efficiency:	High efficiency 90%		
Duty:	S1 (continuous)	Place of Origin:	Zhejiang, China (Mainland)	Standard:	OEM, Quantum series Brushless DC motors
Application:	Textile machinery, packing machine, automatic conveyor belt etc.				

- Any one of the below requirements.
- 1.Variable speed application
 - 2.Require High Start Torque
 - 3.Low /High speed application
 - 4.Minimize Motor size demands
 - 5.Customized Speed, work at any defined speed, (the rated speed of AC motor is limited, 2 poles-3000RPM, 4 poles -1500RPM @50HZ, 2 poles-3600RPM, 4 poles -1800RPM @60HZ)

Product Description

Quantum series Brushless DC motors are customized motors, which are designed for textile machinery industry. Based on various demands, this series brushless DC motors are divided into 3 motor model. PMSM-42, PMSM52, PMSM-62. You can refer to the drawing and properties.



Characteristics of Quantum series brushless DC motors

Using the international advanced materials technology, Produce high speed, high torque small motors, which has servo characteristics.

Features:

1. Adopt over 5 pairs magnetic poles design, the ability to start and stop fast.
2. High efficiency $\approx 90\%$
3. Achieve high output power in small motor frame
4. Can be equipped with the encoder to achieve servo control
5. Economic benefits, high cost-effective

The rotor is made by sintered neodymium Magnet halbach ring. In the market, the similar motors are made by bonded neodymium magnets, which the BH max. is limited at 10 MGOe, And now with our sintered neodymium magnet halbach ring technology, the BH max. is reach to 40 MGOe, which increase the magnetic density almost 4 times. The magnetic density is stronger, and it can reduce the coils of stator.

Hence, you can get the following benefits with this PMSM motor.

1. Minimized Motor size. (smaller than conventional motors)
2. Start faster
3. Minimize the copper loss
4. Higher efficiency

This PMSM Motor is designed to apply to servo applications, as long as it is equipped with the encoder to achieve servo control, high precision servo application can be realized with the encoder.

This 150W 5000RPM 70VDC [Brushless DC Motor](#) is used in bobbin winder automatic system, this motor is replacing the conventional electric motors. The efficiency of the motor is increased almost 8%-15%. And because of 10 poles systems, the motor start and stop is much faster on the line. We designed three various PMSM motors by customer' s demands. For more specifications on this leading motors, please contact our technical team by email info@volcanomotor.com

This PMSM motors can be also well used in other textile machinery, packing machine, automatic conveyor belt etc.

Generally, whatever standard motors or customized motors, our professional team can help you work them out.

Advantage of PMSM motors

- 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 PMSM 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 High-energy neodymium magnets IEC Motors](#)

[Next IEC Motors Frame 90](#)

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12v 600w 1800rpm Brushless Dc Motor With	Customized 700W 24V Brushless DC Motor	1500RPM 400W 12V High torque Brushless DC Motor	600W 1800RPM 48V DC Brushless Motor	

Hall Sensors



560W 24V 2250RPM
Brushless DC Motor

DC Motor Manufacturer & Supplier in China
Email: info@volcanomotor.com | Tel: 86-18157453060

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