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3750 RPM High Speed Brushless DC Electric Motor

Model Number:	BLDC1.9-100
Type:	Brushless DC Motor
Output Power:	1.9KW
DC Voltage:	24V
Speed Range:	3750RPM
Poles:	4P, 6P, 8P...

Detailed information	
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Brand Name:	Volcano Electric	Model Number:	BLDC1.9-100	Type:	High Speed Brushless DC Electric Motor
Output Power:	1900W	DC Voltage:	24V	Speed Range:	3750 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:	High efficiency reach to 92%		
Duty:	S1 (continuous)	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC / NEMA standard
Application:	Boat, Car, Electric Bicycle, Fan, Home Appliance, Traction Motor, Solar Pump DC systems, bus A/C systems ,Other				

Product Description

Advantages of a Brushless DC Electric Motor

- 1.The absence of brushes in a Brushless DC Electric Motor is its greatest advantage. The carbon brushes within a [Brush DC Motor](#) wear out rapidly and need replacing, which can be costly in the long run.
- 2.The Brushless DC Electric Motor generates less noise, and is less prone to sparking due to the lack of a commutator.
- 3.The Brushless DC Electric Motor is typically smaller and lighter than the Brush DC Motor, making it ideal for applications where weight and space are important factors.
- 4.The Brushless DC Electric motor is cleaner, more powerful, and requires lower maintenance than does the Brush DC Motor.

5.It has higher speed ranges, higher dynamic responses, and ultimately outlasts the Brush DC Motor in total operating hours.

Disadvantages of a [Brushless DC Motor](#)

There are numerous applications using a Brush DC Motor that could instead utilize the Brushless DC Motor. However a few factors might prevent the changeover.

The first factor is start-up cost. Although the Brushless DC Motor is lower-maintenance than the Brush DC Motor, initial cost is more expensive, due to its advantageous construction.

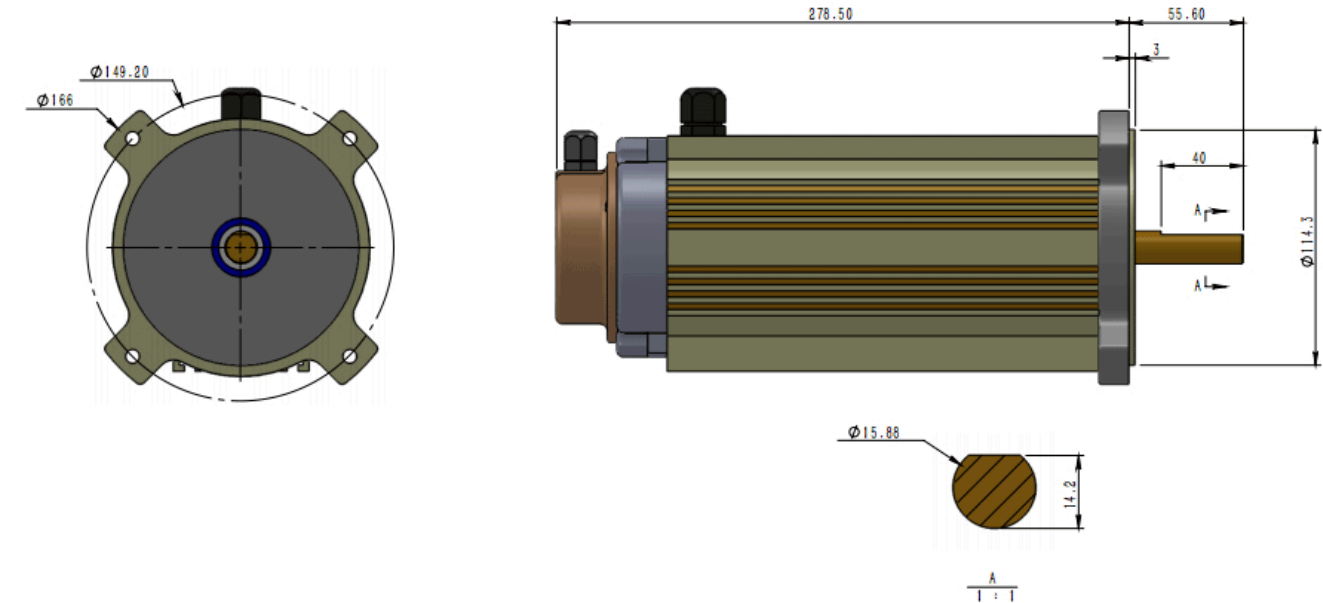
But in long terms, considering the high efficiency, the energy saving and maintenance- free, the total cost would obviously cheaper than Brush DC Motors

Second is complexity. A controller is required in order to operate a Brushless DC Motor, and is usually more convoluted than most controllers. A Brushless DC Motor also requires additional system wiring, in order to power the electronic commutation circuitry.

In Volcano Electric, We offer not only the Brushless DC Electric Motor , but also the Intelligent systems with the controller in specific applications. Thus the customer can have one-stop service in you cases.

3750RPM High Speed Brushless DC Electric Motor, is one of our BL100 brushless DC Motor, the Series BLDC100 motors can be designed to operate in a voltage, range from 24V to 72V DC, its outer diameter is 110mm.The Series BLDC100 motors cover a output power range from 300W to 2000W, its torque range on continuous duty is 1.2-3.5Nm, on intermittent duty up to 3-8.75Nm.

Configuration



***CAN MAKE ACCORDING TO YOUR REQUIRMENT**

Brushless motor list

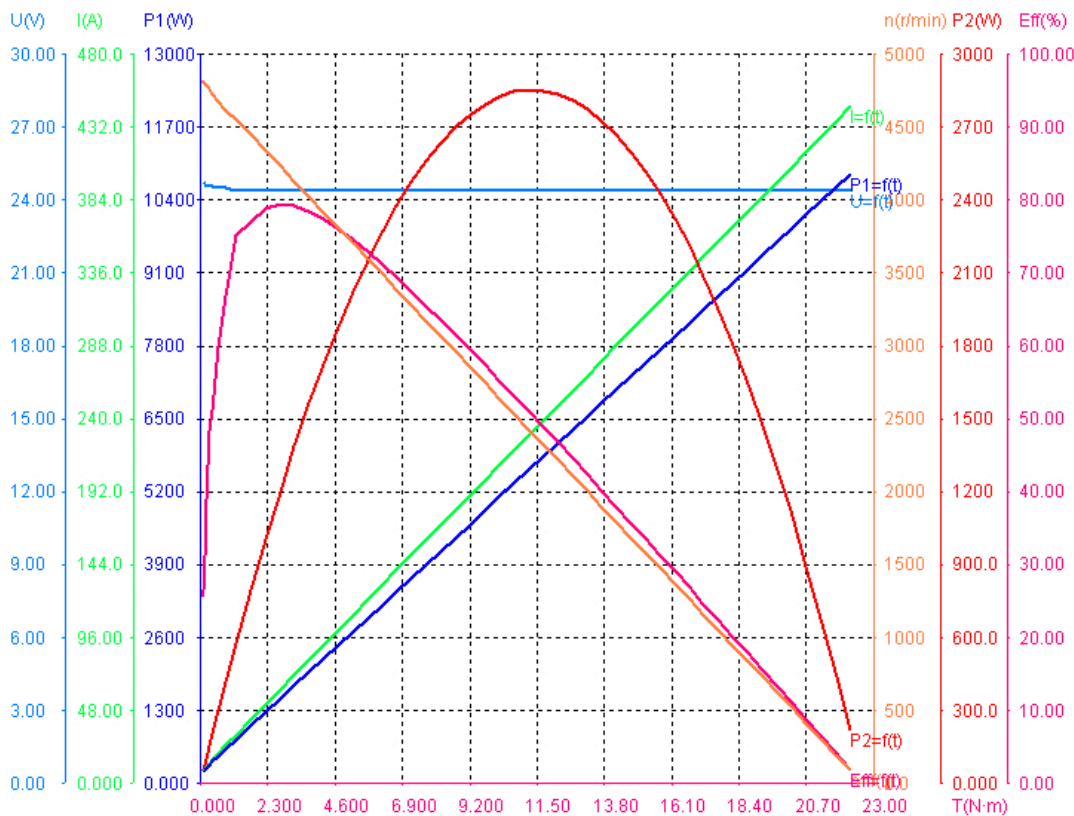
Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
BLDC0.9-100	0.9	24	44.6	2600	3.31	8	84	60

BLDC1.2-100L	1.2	24	63.3	4200	2.73	8	79	60
BLDC1.2-100	1.2	36	39.7	2270	5.05	8	84	60
BLDC1.25-100	1.25	24	62	3200	3.73	8	84	60
BLDC1.5-100	1.5	24	73.5	2590	5.53	8	85	61
BLDC1.5-100	1.5	72	23.5	3200	4.48	8	89	61
BLDC1.9-100	1.9	24	101.5	3750	4.84	8	78	61
BLDC2.0-100	2	24	98.6	3360	5.68	8	84.5	61.5
BLDC2.5-100	2.5	24	123	3350	7.13	8	84.7	61.5

Advantage of Brushless DC 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

Performance of 1900W 24V 3750RPM Brushless DC Motor





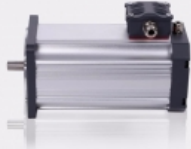


For customized DC Motors, please contact our technician, Ordinary, we have to know the following information to get a professional proposal:

- **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 2500 rpm 180 Volt 100 Watt Brushed DC Motor Next 1.55 KW 4300 RPM High Speed BLDC Motor

You may like:

				
48V 90% Efficiency 1500W Hall Sensor EV Motor With Brake	310VDC 1500W 3500RPM BLDC Motor	2HP 24V 3500RPM Hall Sensor Brushless DC Motor	60V 3500W High Power BLDC Motor	3KW 3000RPM IEC 90 Brushless DC Motor
				
3.7KW 60V 3600RPM Electric Brushless DC Motor	2.5KW 72V Hall Sensor 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				

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