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4200RPM High Speed Brushless DC Motor

Model Number:	BLDC1.2-100
Type:	Brushless DC Motor
Output Power:	1.2KW
DC Voltage:	24V
Speed Range:	4200 RPM
Poles:	4P, 6P, 8P...

Detailed information

Brand Name:	Volcano Electric	Model Number:	BLDC1.2-100	Type:	Brushless DC Motor
Output Power:	1200W	DC Voltage:	24V	Speed Range:	4200 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:	IE 4.0		
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

This is 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.

You’ ve got a number of choices for your motor project needs, and brushless DC motors are just one of them. However, many engineers and designers will tell you that a brushless motor is the best type of motor for many projects.

Why is that the case?

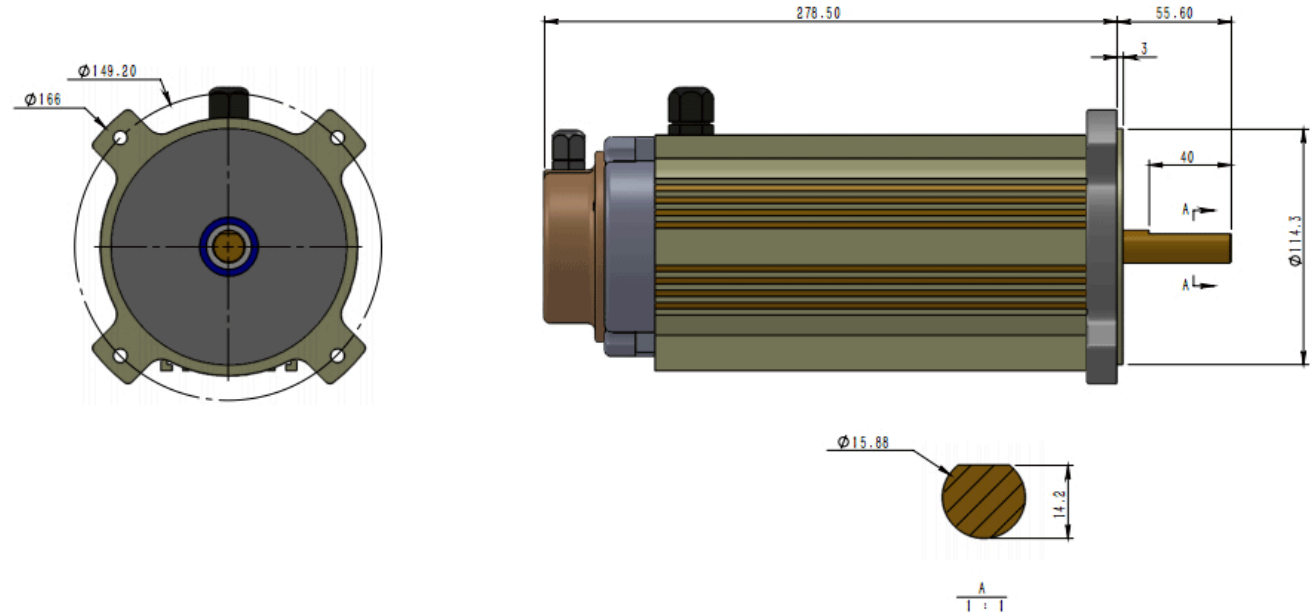
Brushless DC motors have many advantages over their brushed DC motor counterparts. The most obvious advantage of a brushless motor is its lack of brushes and physical commutator. This difference means that there are many fewer parts that can wear out or break and need to be

replaced than in a brushed motor. A BLDC motors tend to be more reliable, last longer, and be more efficient. In fact, BLDC motors have life expectancies of over 10,000 hours.

Another advantage of a brushless motor is that it can operate at speeds above 10,000 rpm in both loaded and unloaded conditions. It is also capable of operating with less noise and electromagnetic interference than a brushed motor because its internal parts are completely enclosed.

4200RPM High Speed Brushless DC Motor is one of our high speed [Brushless DC Motors](#), the input voltage is 24VDC, and rated output power is 1.2KW. To have a customized proper BLDC motors, please contact our engineer at info@volcanomotor.com

Configuration



*CAN MAKE ACCORDING TO YOUR REQUIRMENT

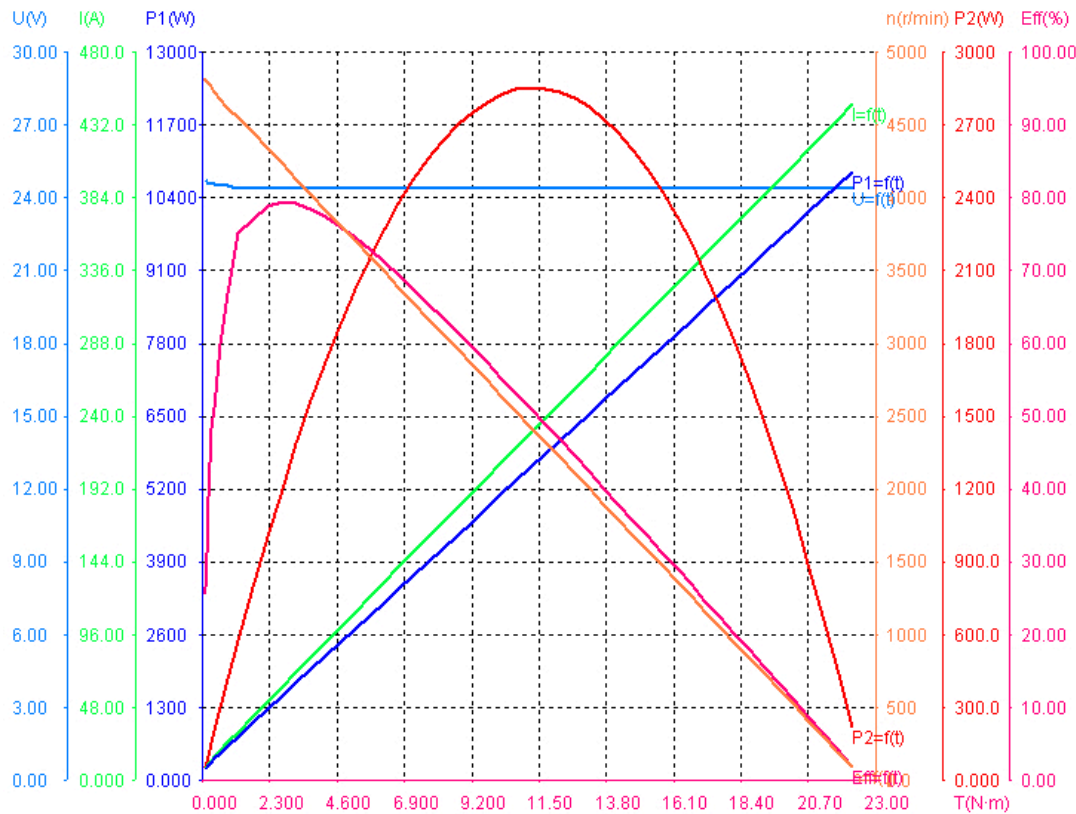
Brushless motor list

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
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 1200W 24V 4200 RPM high speed 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 1000 Watt 72V Brushless DC Motor](#)

[Next 1/2 HP 24V 1600rpm Brushless DC Motor](#)

You may like:

 VOLCANO ELECTRIC	 VOLCANO ELECTRIC	 VOLCANO ELECTRIC	 VOLCANO ELECTRIC	 VOLCANO ELECTRIC
220V 750W 3000RPM 6P Brushless DC Motor	48v 1kw 3000rpm Brushless Dc Motor For Electric Vehicle	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

 VOLCANO ELECTRIC
48V 1000W IP54 Brushless DC Motor Hall Sensor

 VOLCANO ELECTRIC	 VOLCANO ELECTRIC	 VOLCANO ELECTRIC	 VOLCANO ELECTRIC
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