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1800W 48V 2000 RPM Brushless DC Motor

Model Number:	BLDC1.8-123
Type:	Brushless DC Motor
Output Power:	1800W
DC Voltage:	48V
Speed Range:	2000RPM
Poles:	4P, 6P, 8P...

Detailed information

Brand Name:	Volcano Electric	Model Number:	BLDC1.8-123	Type:	Brushless DC Motor
Output Power:	1800W	DC Voltage:	48V	Speed Range:	2000 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

1800W 48V 2000RPM brushless DC motor is a interior permanent magnet (IPM) brushless dc motor. It's designed for motor with speed from1000rpm to 2500rpm, available power 300w-3000w, maximum rated torque 3Nm-13Nm. Outer diameter is 123mm, motors with different power have different motor length.

Principle of IPM motor

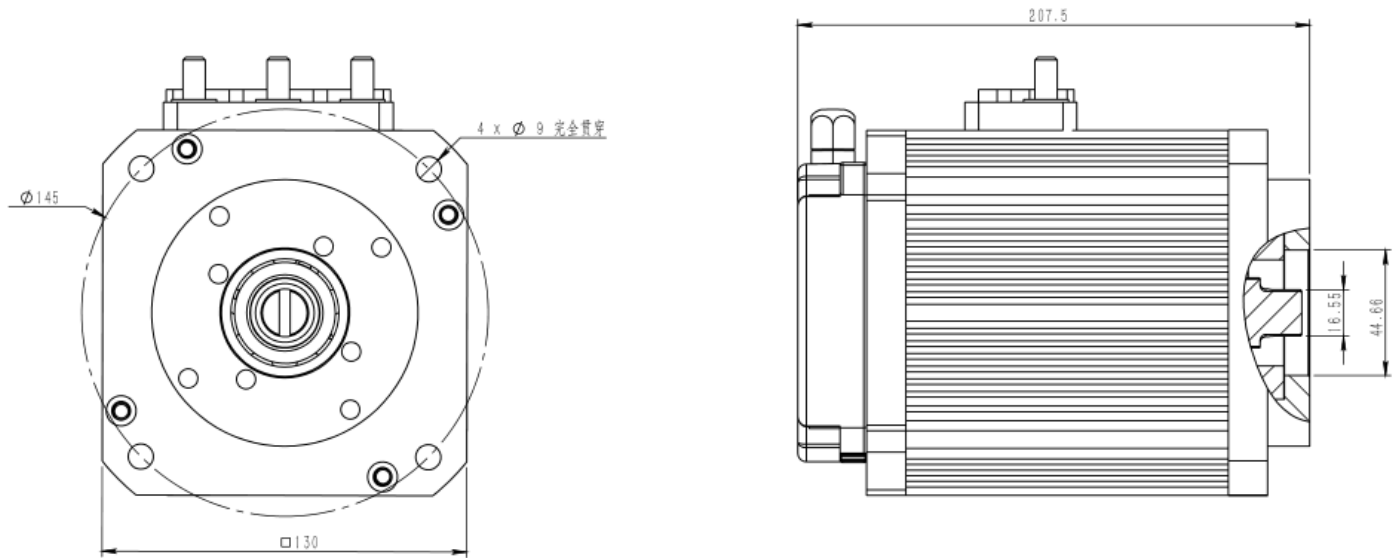
A rare-earth permanent magnet deeply positioned in the rotor can generate magnet torque (attraction/repellence between coil and permanent magnet) and reluctance torque (coil attracts iron) greatly. This electromagnetic structure attains high torque and the highest efficiency/low heat generation.

brushless DC motors feature high torque, high speed with a small size and weight; brushless DC motors are ideal for heavy duty servo applications with frequent overload conditions as well as for continuous duty applications where maximum operational lifetime is required.

With permanent magnets which rotate within a fixed armature, the BLDC motors features a brushless commutation design for long lasting performance.

1800W brushless DC motor, according to your voltage available, we can design our motors fit the voltage 24V,36V,72V,60V48V,120V,240V,380VDC and any other direct current voltage.

Configuration



***CAN MAKE ACCORDING TO YOUR REQUIRMENT**

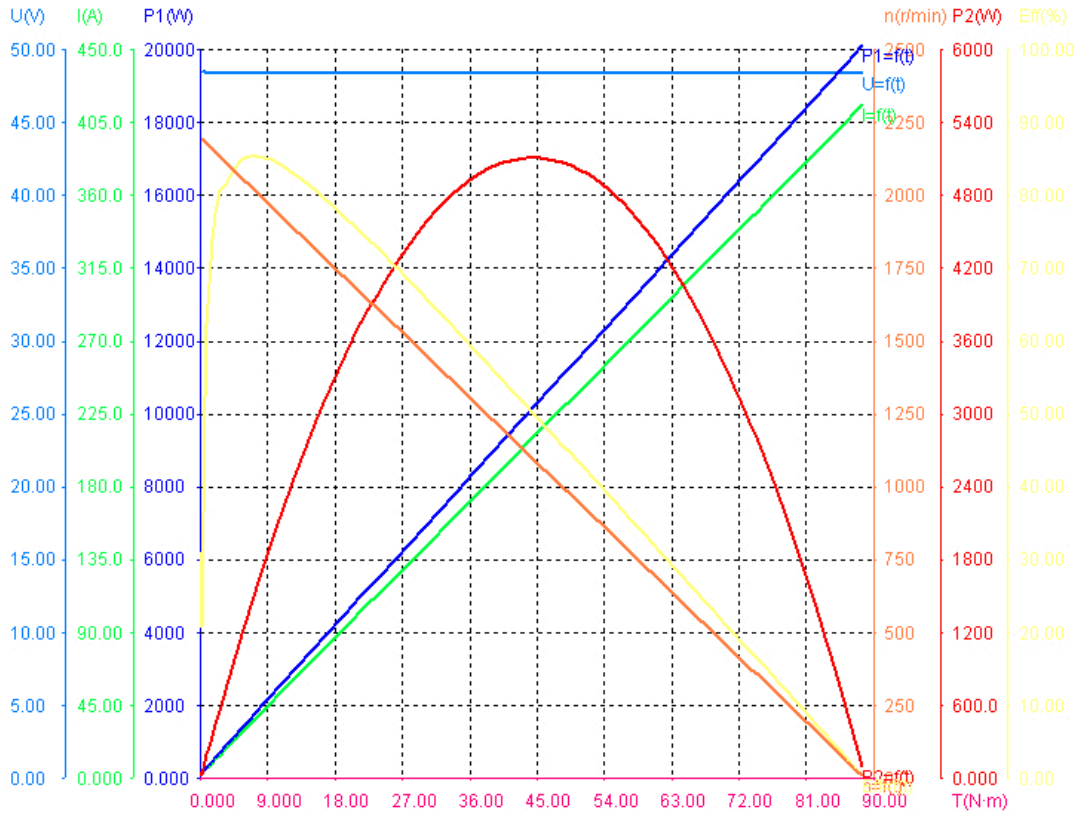
Brushless motor list

Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
BLDC0.65-123	0.65	24	32.2	1700	3.65	8	84	60
BLDC1.2-123	1.2	24	59.5	1700	6.74	8	84	60
BLDC1.25-123	1.25	24	62	1350	8.85	8	84	60
BLDC1.4-123	1.4	24	69.45	1560	8.57	8	84	60
BLDC1.8-123	1.8	48	44.2	2000	8.59	8	85	60

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 1800W 48V 2000RPM 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 1800W 60V 4 Pole Brushless DC Motor](#)

[Next 2.8KW 60V High Torque BLDC Motors](#)

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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