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60V 3500W High Power BLDC Motor

Model Number:	BLDC3.5-154
Type:	Brushless DC Motor
Output Power:	3.5KW
DC Voltage:	60V
Speed Range:	1680RPM
Poles:	4P, 6P, 8P...

Detailed information	
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Brand Name:	Volcano Electric	Model Number:	BLDC3.5-154	Type:	High Power BLDC Motor
Output Power:	3000W (4HP)	DC Voltage:	60V	Speed Range:	1680 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:	Electric vehicles, Car, Electric Bicycle, Fan, Home Appliance, Traction Motor, Solar Pump DC systems, bus A/C systems ,HVAC systems, Others				

Product Description

Why BLDC Motors Are a Great Choice

The increased efficiency and reliability that a brushless motor offers, along with its low weight and small size, make this type of motor the perfect choice for a wide range of applications.

Industries Using High Power BLDC Motors

The efficiency and small size of the brushless DC motor is of paramount importance to many industries, from aeronautic and automotive to the medical and military. Outlined below are just a few industries

Electric Vehicles

The desire for alternative-fueled vehicles has breathed new life into the design and availability of electric vehicles and the high-tech motors that power them. The brushless DC motor is commonly used in electric vehicles of all types due to its low maintenance, high efficiency and operating speeds, lack of sparking, compact size and quick response

HVAC Systems

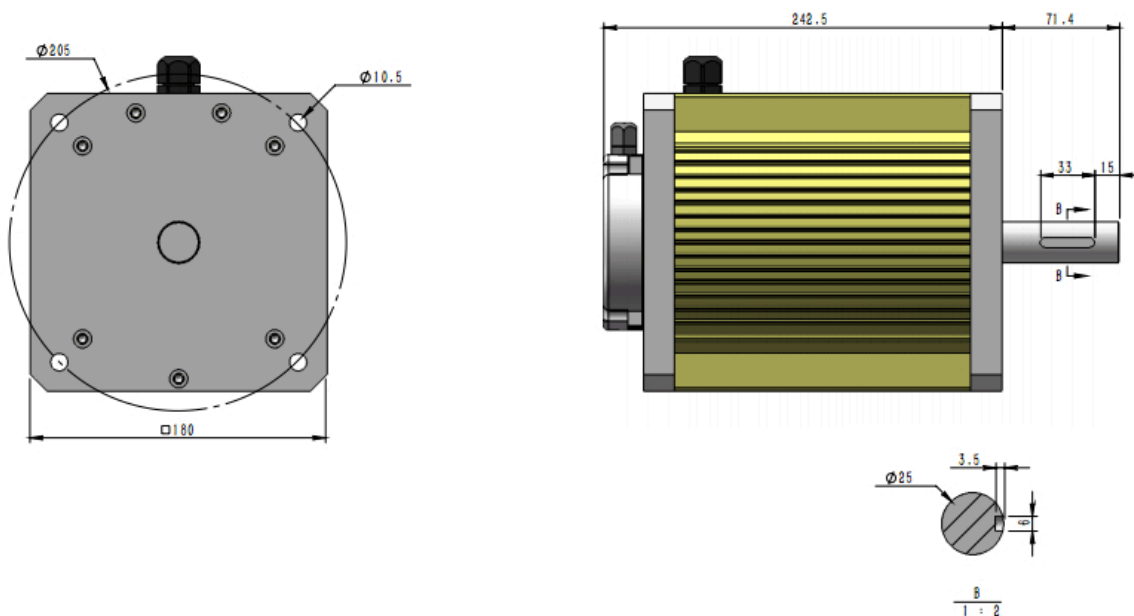
When it comes to the HVAC and refrigeration industries, BLDC motors have been the trend versus the typically used AC motor. The top cited reason for the switch is the reduction in power required to operate the motor. In addition, to increase overall system efficiency, many fans are now run using a brushless motor.

Manufacturing & Industrial Engineering

Manufacturers are using BLDC motors for positioning, actuations systems and more. Considered ideal for many manufacturing applications, brushless DC motors are commonly used in industrial automation design. Manufacturing companies and engineers alike cite the motor's power density, good speed-torque characteristics, speed ranges and ease of maintenance as just a few of the benefits.

60V 3500W High Power BLDC Motor, is one of our BLK154 BLDC motors. The Series BLDC154 motors can be designed to operate in a voltage range from 24V to 380V DC, its outer diameter is 180mm. The Series BLDC154 motors cover a output power range from 1.5KW to 10KW, its torque range on continuous duty is 3-20Nm, on intermittent duty up to 7.5-50Nm.

Configuration



***CAN MAKE ACCORDING TO YOUR REQUIRMENT**

Brushless motor list

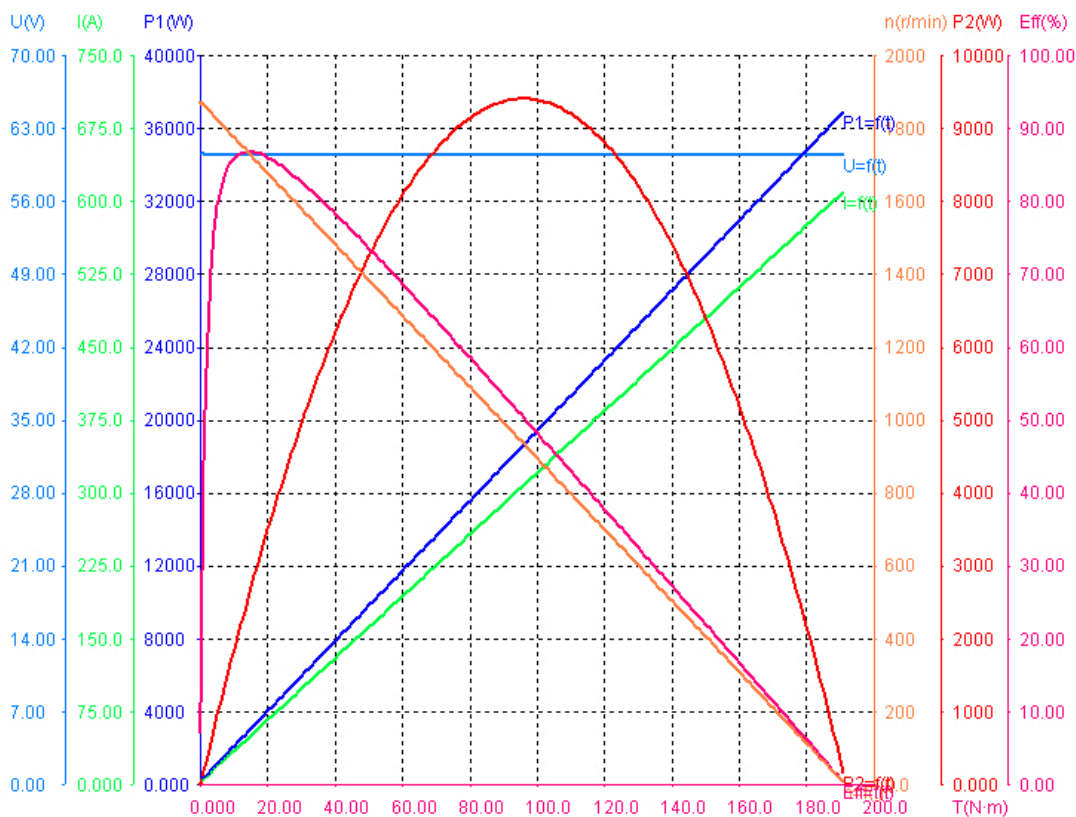
Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
BLDC1.55-154	1.55	45	40	4300	3.44	8	86	60
BLDC1.8-154	1.8	60	32.6	1100	15.6	8	92	61
BLDC1.85-154	1.85	24	81.5	2100	8.41	8	92	60

BLDC2.7-154	2.7	60	48.9	1100	23.4	8	92	61.5
BLDC2.8-154	2.8	60	50.8	1100	24.3	8	92	61.5
BLDC2.8-154	2.8	48	67.8	2600	10.3	8	86	61
BLDC3.0-154	3.0	48	67.6	2650	10.81	8	92.5	61
BLDC3.0B-154	3.0	72	46.8	1850	15.5	8	89	61
BLDC3.5B-154	3.5	60	69.5	1680	19.9	8	84	61
BLDC4.0-154	4.0	48	90.6	2580	14.81	8	92	62
BLDC5.5-154	5.5	72	85.6	3680	14.27	8	89.2	63

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 3500W 60V 1680RPM Brushless DC Motor



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








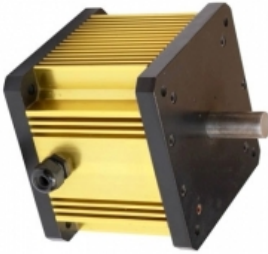

- **Brushed or Brushless** Customer preference

- **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 Variable Speed Permanent Magnet Motors

Next Customized 4.5kw 72v 1500rpm Brushless Dc 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	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	
				
3750 RPM High Speed Brushless DC Electric Motor				

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