Tel: +86-18157453060 | Email: info@volcanomotor.com

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# 2700W 60V Sensorless Brushless DC Motors

Type: Brushless DC	Motor			
Output Power: 2.7KW				
DC Voltage: 60V				
Speed Range: 1100RPM	1100RPM			
Poles: 4P, 6P, 8P				

Detailed information

Brand Name:	Volcano Electric	Model Number:	BLDC2.7-154	Туре:	Brushless DC Motor 1100 RPM			
Output Power:	2700W	DC Voltage:	60V	Speed Range:				
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 BL154 Motor, 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.

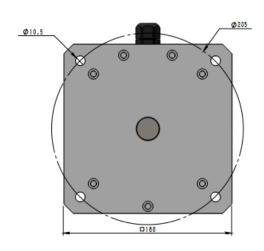
Sensorless Motors uses back/counter EMF (Electromotive Force) that detects the rotor position by receiving and interpreting feedback current that was generated by motor as the rotor spins. Basically, it is a contact-less system that is similar to Sensored motors, but uses magnetic field force. In addition, Sensorless motors are more efficient when running at a high RPM than Sensored motors. It would have no friction without the contact and have no heat produced. Unlike Sensored motors that need open space for ventilation, Sensorless motors do not need that so it is usually sealed to prevent dirt or small particles to get in.

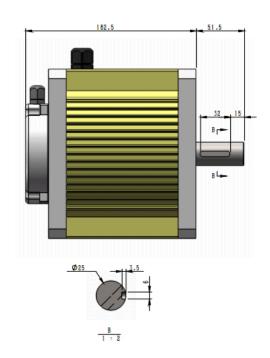
It is noticeable that Sensored motors are smoother especially in the lower end of the motors operations. when the motor is running at low speed, Sensorless motor would occasionally causes cogging, because there isn't enough EMF (Electromotive Force) to send out for the ESC to receive.

2700W 60V Sensorless Brushless DC Motors, basically this is a sensor-based motors. If the applications requires little speed, torque controlling, and motor speed is working at rated speed. The sensorless brushless DC motors should be ok. But to have precise control, the sensor-based motors are required.

The input voltage 60V is optional, by your available voltage condition, our team can design our motors case by case. 60VDC,24VDC,48VDC,72VDC..... besides, the AC is also available.

# Configuration





### \*CAN MAKE ACCORDING TO YOUR REQUIRMENT

#### **Brushless motor list**

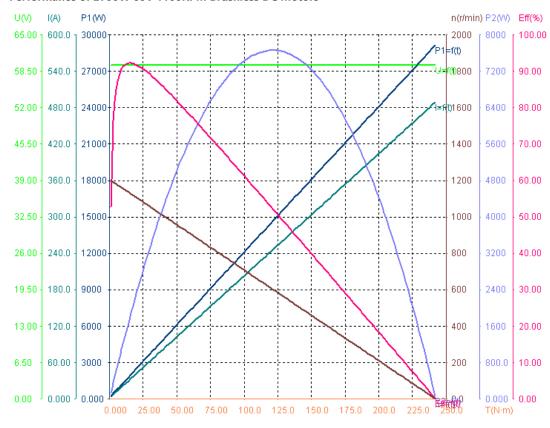
Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	Α	RPM	N.m		%	dB
BLDC1.55-154	1.55	45	40	4300	3.44	8	86	60
BLDC1.8-154	1.8	60	32.6	1100	15.6	8	92	61
BLDC1.85-154	1.85	24	81.5	2100	8.41	8	92	60
BLDC2.7-154	2.7	60	48.9	1100	23.4	8	92	61.5
BLDC2.8-154	2.8	60	50.8	1100	24.3	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 Maintainance 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 2700W 60V 1100RPM Brushless DC Motors



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

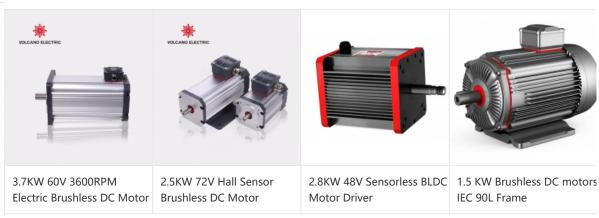
- Brushed or Brushless Customer preference
- Output power (W) Horsepower/watts/torque rated at full load speed
- Voltage (V) i.e 12v DC ...... 220v AC
- Motor speed (RPM) Revolutions per minute of the shaft at full load Voltage
- Application e.g. traction, airconditioning, etc.
- Duty Most motors are 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 72V 4 HP Brushless DC Electric Motors

Next 24V Hall Sensors Brushless DC Motor

# You may like:







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