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72V 4 HP Brushless DC Electric Motors

Model Number:	BLDC3.0-154
Type:	Brushless DC Motor
Output Power:	3.0KW (4HP)
DC Voltage:	72V
Speed Range:	1850RPM
Poles:	4P, 6P, 8P...

Detailed information

Brand Name:	Volcano Electric	Model Number:	BLDC3.0-154	Type:	Brushless DC Motor
Output Power:	3000W (4HP)	DC Voltage:	72V	Speed Range:	1850 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:	IE3.0 IE 4.0 over 90%		
Duty:	S1 (continuous)	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC / NEMA standard
Application:	Compressors, Conveyors, Blowers, Fans, Irrigation, Pumps, Heat Exchangers, Cranes & Hoist, Printing, Extruders				

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 1.5KWto 10KW, its torque range on continuous duty is 3-20Nm, on intermittent duty up to 7.5-50Nm.

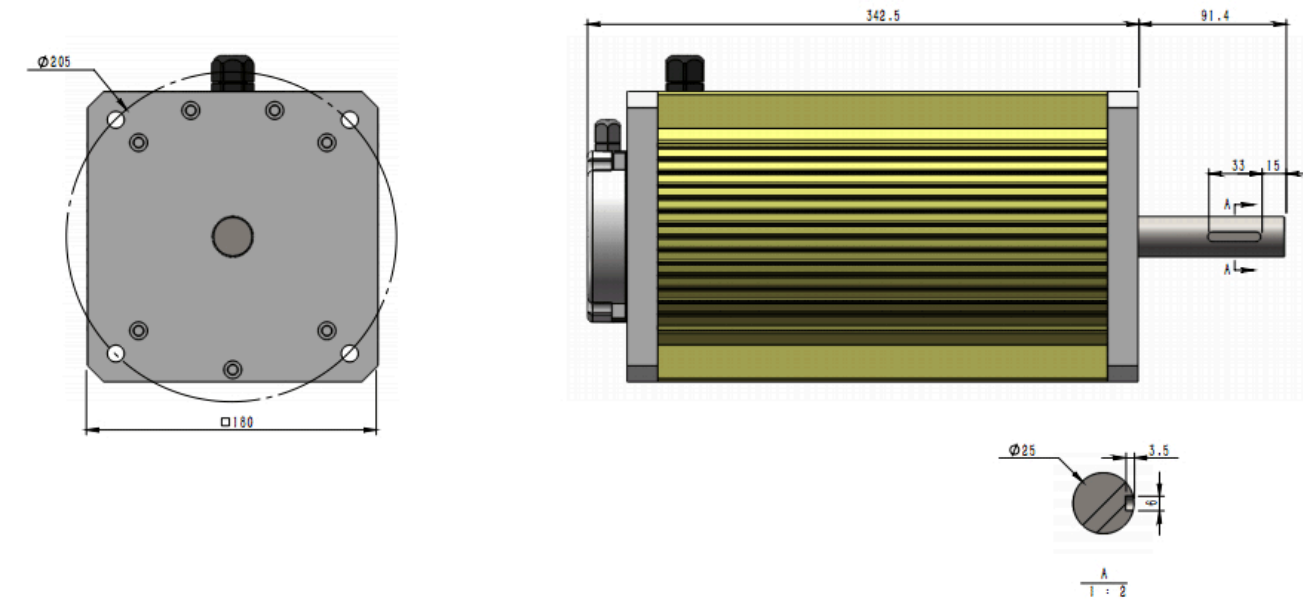
Volcano Electric motors are designed to operate at the highest levels of efficiency to save energy, reduce operating costs and enable demanding motor applications to perform reliability and without unscheduled downtime

These brushless DC motors perform exceptionally well in environments requiring both precision and durability

Volcano Electric designed the Brushless DC motors to maximize torque output while keeping the diameter and length minimal. High-energy neodymium magnets provide the foundation for the torque density of this motor series. High-capacity windings increase current density and electromagnetic intensity with minimal joule heating. The advanced air gap design requires less power to achieve the high torque output, allowing the motor to operate at a high efficiency

This 72V 4 HP Brushless DC Electric Motor is one of our standard motors in our production line, we offered this motor by optimized solution to our customers. We getting the application feedback from customers , discussed and design this motors by case.

Configuration



*CAN MAKE ACCORDING TO YOUR REQUIRMENT

Brushless motor list

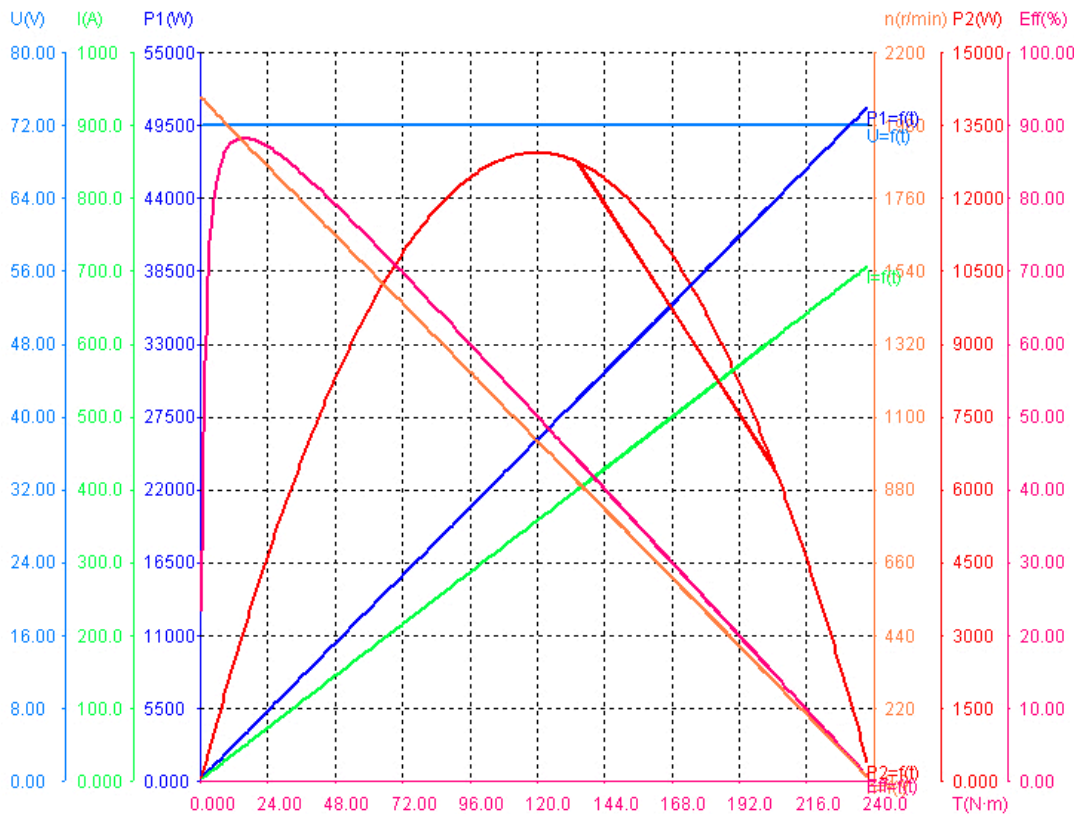
Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
BLDC1.55-154	1.55	45	40	4300	3.44	8	86	60
BLDC1.8-154	1.8	60	32.6	1100	15.6	8	92	61
BLDC1.85-154	1.85	24	81.5	2100	8.41	8	92	60
BLDC2.7-154	2.7	60	48.9	1100	23.4	8	92	61.5
BLDC2.8-154	2.8	60	50.8	1100	24.3	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
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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 3000W 72V 1850RPM BLDC 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.

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
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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
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2000W 60V 3000RPM
Brushless DC Motor