

DC Brushless Blower - Ball Bearing

12V DC 97mm x 94mm x 33mm

multicomp PRO

RoHS
Compliant

Characteristics

Motor Design	: 2 phases, 4-poles Brushless DC motor.
Insulation Resistance	: More than 10M ohm between internal stator and lead wire(+) measured at DC 500V.
Dielectric Strength	: Applied AC 500V for one minute or AC 600V for 2 seconds between housing and lead wire(+)
Noise Level	: Measured in a semi-anechoic chamber with background noise level below 15dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.
Input Power, Current & Speed	: Measured after continuous 10 minute operation at rated voltage in clean air, and at ambient temperature of 25 degrees C.
Tolerance	: ±15% on rated power and current.
Air Performance	: Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.

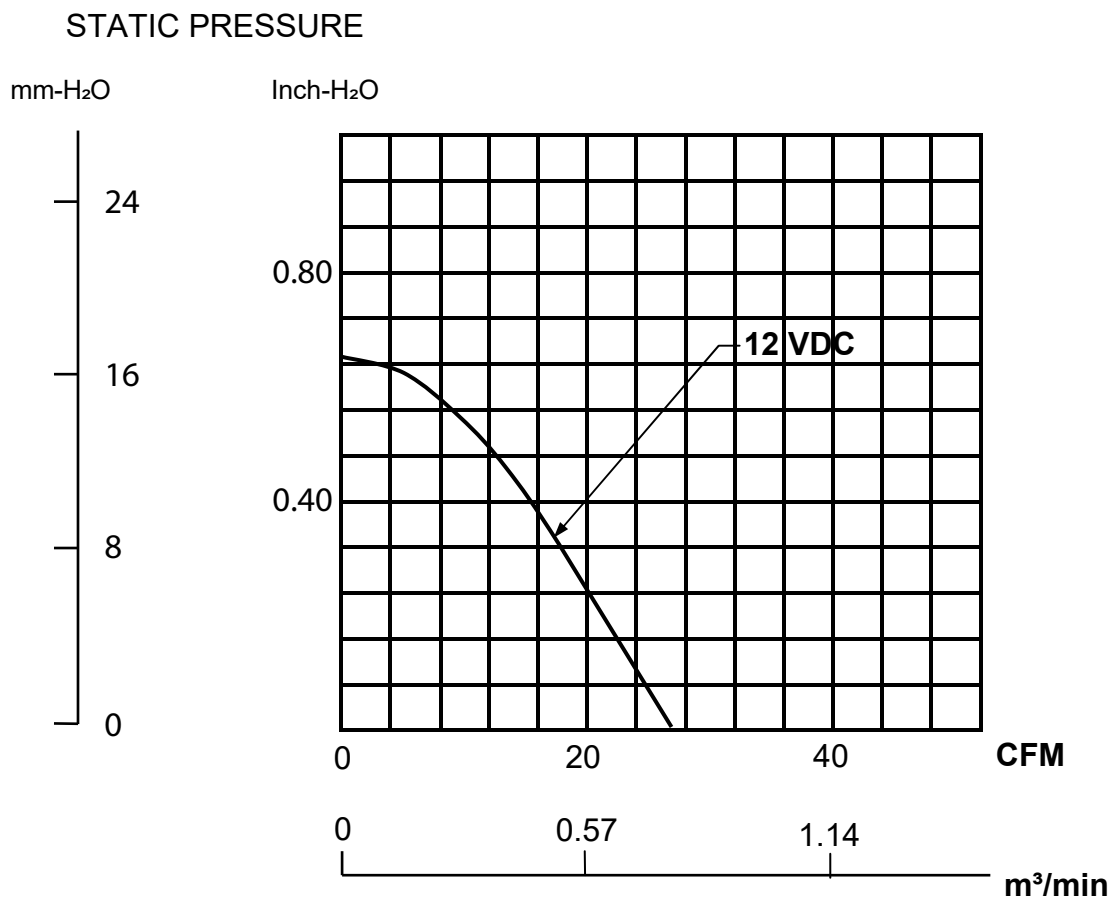
Specification

Rated Voltage	: 12V DC
Operating Voltage Range	: 6V DC to 12V DC
Starting Voltage	: 6V DC (25°C Power ON/OFF)
Rated Speed	: 3200 RPM ± 10%
Air Delivery	: Nominal 26.6 CFM
Static Pressure	: Nominal 0.65 Inch-H2O
Rated Current	: 440 mA
Rated Power	: 5.28 Watts
Safety Watts	: 6.7 Watts
Noise Level	: Nominal 53.1 dB(A)
Direction of Rotation	: Counter-clockwise viewed from front of fan blade
Operating Temperature	: -10°C to +70°C
Storage Temperature	: -40°C to +70°C
Bearing System	: Precision ball bearing system
Weight	: 185 g
Safety	: UL/CUR/ TUV/CE Approvals
Protection	: Automatic Restart Capability
Note	: The motor will shut down when rotor was locked, then auto restart within 10 seconds
	: Polarity Protection

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Performance Curves



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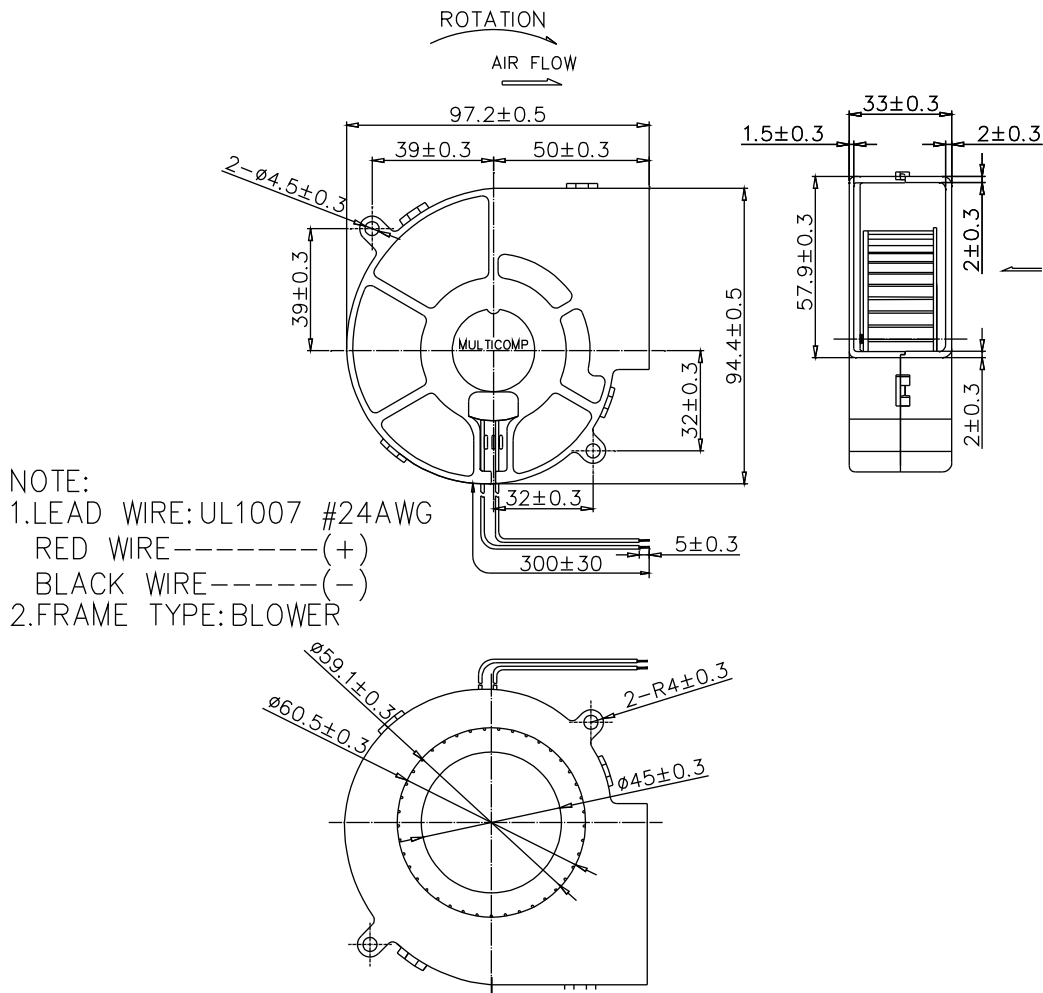
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Material

Frame : Thermoplastic PBT of UL 94V-0
 Impeller : Thermoplastic PBT of UL 94V-0
 Lead Wire : UL1007, 24 awg, +RED; -BLACK

Dimensions

Screw Type (Pan head)	Torque	Screw Spec	
Machine screw	3 ~ 4 Kgf-cm	Size	Standard
		M4.0	JIS B1111-1974



1. One directional exhaust
2. Best Mounting Direction: Fan blade face up or shaft horizontal direction.

UNIT : mm

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Safety

1. DO NOT use or operate this fan over the limitations outlined in this specification. MULTICOMP PRO is not responsible for the non-performance of this fan and/or any damages resulting from its use if it is not used or operated by the specifications.
2. MULTICOMP PRO recommends adding a protection circuit to the product or application in which this fan is installed, such as a thermo-fuse, current-fuse, or Thermo protector. The failure to use such a device may result in smoke, fire, and electric shock by insulation degradation in cases of motor lead short circuits, overload, over-voltage, and/or other failures.
3. MULTICOMP PRO recommends installing a protection device to the product or application in which this fan is installed if there is a possibility of a reverse connection between VDC (+) and GND (-). The failure to install such a device may result in smoke, fire, and/or destruction, although these conditions may not manifest immediately.
4. This fan must be installed and used in compliance with all applicable safety standards and regulations.
5. Use proper care when handling and/or installing this fan. Improper handling or installation of this fan may cause damage that could result in unsafe conditions.
6. Use proper care during installation and/or wiring. Failure to use proper care may cause damage to certain components of the fan including, but not limited to, the coil and lead wires, which could result in smoke and/or fire.
7. DO NOT use power or ground PWM to control the fan speed. If the fan speed needs to be adjusted, please contact MULTICOMP PRO to customize the product design for your application.
8. For critical or extreme environments, including non-stop operation, please contact MULTICOMP PRO and we will gladly assist with your product selection to ensure an appropriate cooling product for your application.

Part Number Table

Description	Part Number
Brushless DC Blower - Ball Bearing, 12V DC, 97mm x 94mm x 33mm, 2 Wire Leads	MP006500

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