

MagLev Motor Blower



RoHS
Compliant

Characteristics:

Motor Design	: Patented single-coil DC brushless 8 pole motor design
Insulation Resistance	: More than 500M Ω between internal stator and lead wire(+) measured at 500V DC
Dielectric Strength wire(+)	: Applied 500V AC for one minute or 600V AC for 2 seconds between housing and lead
Noise Level	: Measured in a semi-anechoic chamber with background noise level below 15 dB(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°C
Tolerance	: $\pm 15\%$ 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

Specifications:

Rated Voltage	: 12V DC
Operating Voltage Range	: 6 to 13.8V DC
Starting Voltage	: 6V DC (25°C Power ON/OFF)
Rated Speed	: 6,000RPM $\pm 15\%$
Air Delivery	: 4.7CFM
Static Pressure	: 0.97 Inch-H ₂ O
Rated Current	: 170mA
Rated Power	: 2W
Noise Level	: 42.2dB(A)
Direction of Rotation	: Counter-clockwise viewed from front of fan blade
Operating Temperature	: -10°C to +50°C
Storage Temperature	: -40°C to +50°C
Bearing System	: Vapo bearing system
Weight	: 30g
Safety	: UL/CURITUV/CE Approvals



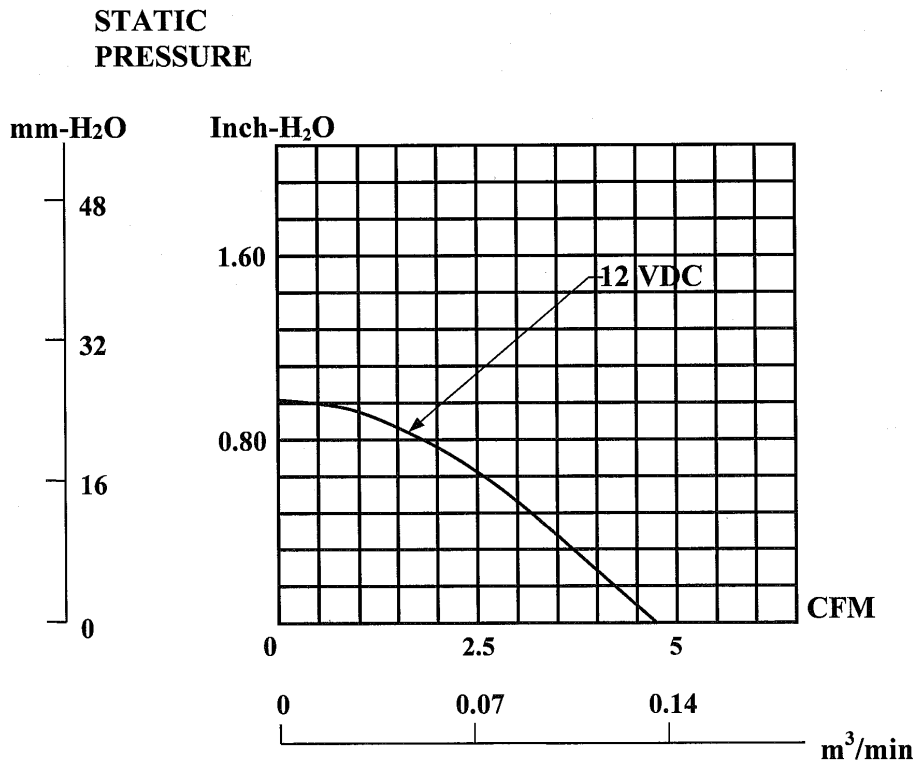
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Vibration : Vibration of acceleration 1.5G and frequency 5-50-5Hz is applied in all 3 directions (X, Y, Z), in cycles of 1 minute each, for a total vibration time of 30 minutes

Locked Rotor Protection : Automatic Restart Capability
Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released

Performance Curves



Material:

Frame : Thermoplastic PBT of UL 94V-0
Impeller : Thermoplastic PBT of UL 94V-0
Bobbin : Thermoplastic PBT of UL 94V-0
Lead Wire : UL1061,26AWG,+Red,-Black

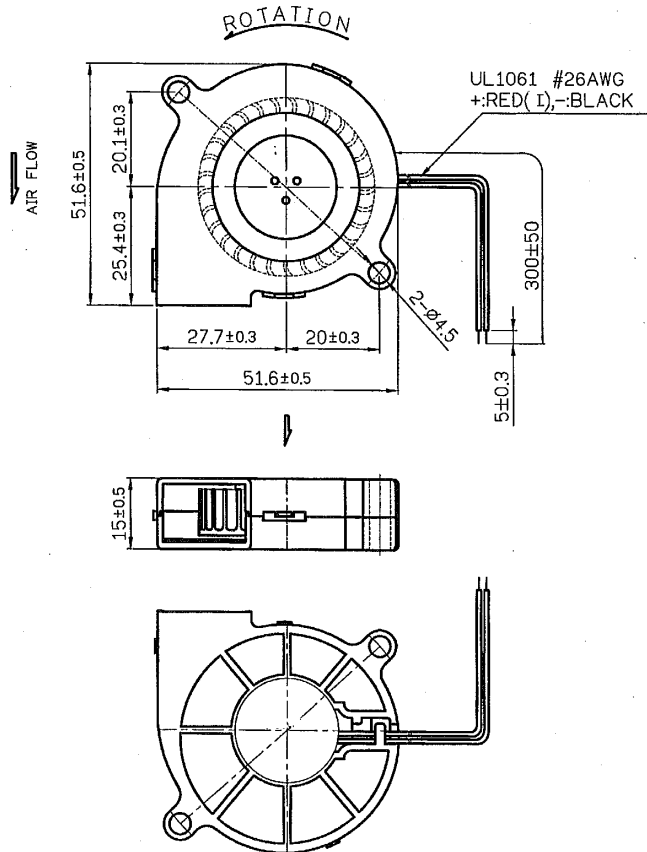
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Dimensions



One directional exhaust

Best Mounting Direction: Fan blade face up or shaft horizontal direction

Dimensions : Millimetres

Part Number Table

Description	Part Number
MagLev Motor Blower	MC32897

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