

Axial DC Fan

Vapo Bearing, 20mm × 20mm × 10mm



Mechanical Characteristics

Motor Design	: Single phase, 4-poles Brushless DC motor
Bearing System	: Vapo bearing system
Dimensions	: 20mm × 20mm × 10mm
Materials of Frame	: Thermoplastic PBT of UL94V-0
Materials of Fan Blade	: Thermoplastic PBT of UL94V-0
Direction of Rotation	: Counter-clockwise viewed from front of fan blade
Mounting Holes	: Diameter 2.5mm in 3 holes
Weight	: 4.65g

Electrical Characteristics

Rated Voltage	: 5V DC
Rated Current	: 80mA / Max. 92mA
Rated Power Consumption	: 0.4W / Max. 0.46W
Safety Power Consumption	: 0.72W
Operating Voltage Range	: 3.2V DC to 6V DC
Starting Voltage	: 3.2V DC (25°C Power ON/OFF)
Operating Temperature Range	: -10°C to +70°C
Storage Temperature Range	: -40°C to +70°C

Performance Characteristics

Rated Speed	: 14000 RPM ±15% at rated voltage
Air Flow	: 1.5 CFM
Static Pressure	: 0.2 Inch-H ₂ O
Acoustic Noise	: 20 dB(A)
Insulation Class	: UL Class A
Insulation Resistance Plastic Housing	: 10MΩ @ 500V DC between Internal Stator and Lead Wire (+)
Dielectric Strength	: Applied AC 500V for one minute or AC 600V for 2 Seconds between Housing and Lead Wire (+)
Life Expectancy	: 60,000 hours @ 40°C, 65% humidity, 90% CL
Protection	: Automatic Restart 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. Polarity Protection

Safety

UL	CUR	TUV	CE
E77551	E77551	✓	✓

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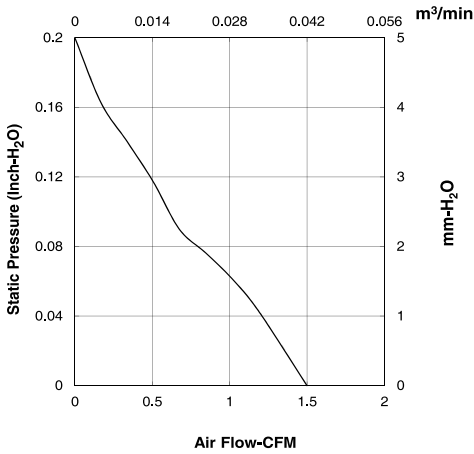


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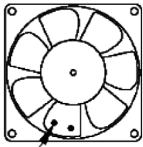
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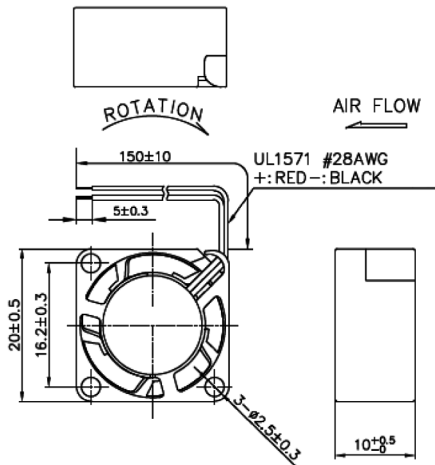
Performance Curve



Dimensions



Note: The glues on the impeller is for impeller balance. Please don't remove it.



Dimensions : Millimetres

Part Number Table

Description	Dimensions	Part Number
Axial DC Fan, 5V, Vapo, 14000 RPM, 2 Wires	20mm×20mm×10mm	MC011514

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