

Axial DC Fans

Vapo Bearing, 50mm × 50mm × 15mm



Mechanical Characteristics

Part Number	MC011511	MC011525
Motor Design	Single phase, 4-poles Brushless DC motor	
Bearing System	Vapo bearing system	
Dimensions	50mm × 50mm × 15mm	
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 4.3mm in 4 holes	
Weight	33g	

Electrical Characteristics

Part Number	MC011511	MC011525
Rated Voltage	24V DC	12V DC
Rated Current	42mA / Max. 51mA	100mA / Max. 115mA
Rated Power Consumption	1.01W / Max. 1.23W	1.2W / Max. 1.38W
Safety Power Consumption	1.08W	1.38W
Operating Voltage Range	8V DC to 27.6V DC	4.5V DC to 13.8V DC
Starting Voltage	8V DC (25°C Power ON/OFF)	4.5V DC (25°C Power ON/OFF)
Operating Temperature Range	-10°C to +70°C	
Storage Temperature Range	-40°C to +70°C	

Performance Characteristics

Part Number	MC011511	MC011525
Rated Speed	6100 RPM ±15% @ Rated Voltage	7200 RPM ±15% at Rated Voltage
Air Flow	17 CFM	18.6 CFM
Static Pressure	0.23 Inch-H ₂ O	0.31 Inch-H ₂ O
Acoustic Noise	33 dB(A)	38.1 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	



Axial DC Fans

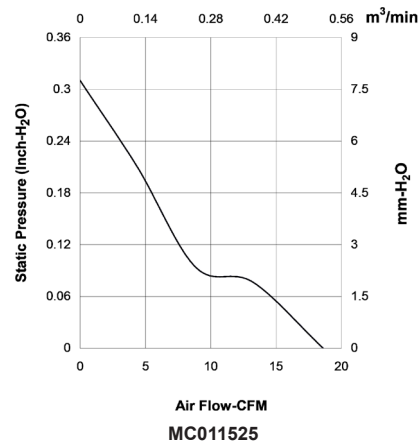
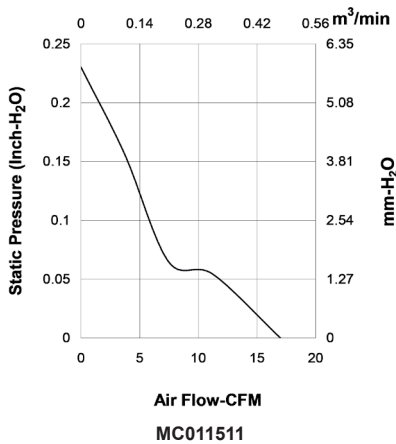
Vapo Bearing, 50mm × 50mm × 15mm



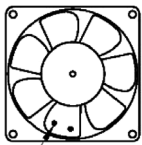
Safety

UL	CUR	TUV	CE
E77551	E77551	✓	✓

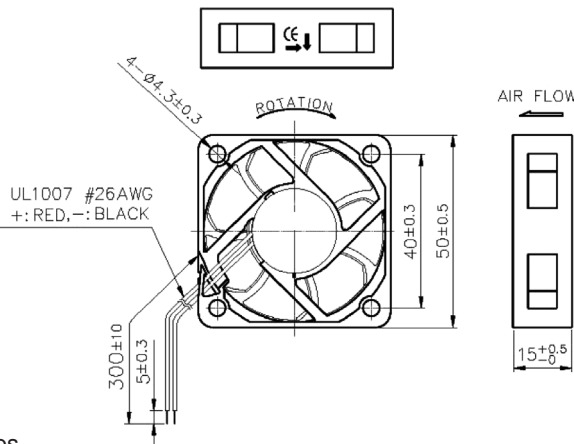
Performance Curve



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, 24V, Vapo, 6100 RPM, 2 Wires	50mm×50mm×15mm	MC011511
Axial DC Fan, 12V, Vapo, 7200 RPM, 2 Wires		MC011525

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