

Axial DC Fans

Vapo Bearing, 25mm × 25mm × 10mm



Mechanical Characteristics

Part Number	MC011500	MC011501	MC011502
Motor Design	Single phase, 4-poles Brushless DC motor		
Bearing System	Vapo bearing system		
Dimensions	25mm × 25mm × 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 2.8mm in 3 holes		
Weight	6.9g		6.8g

Electrical Characteristics

Part Number	MC011500	MC011501	MC011502
Rated Voltage	5V DC		12V DC
Rated Current	105mA / Max. 121mA	65mA / Max. 75mA	30mA / Max. 35mA
Rated Power Consumption	0.53W / Max. 0.61W	0.33W / Max. 0.38W	0.36W / Max. 0.42W
Safety Power Consumption	0.58W	0.38W	0.76W
Operating Voltage Range	2.5V DC to 6V DC		6V DC to 13.8V DC
Starting Voltage	2.5V DC (25°C Power ON/OFF)		6V 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	MC011500	MC011501	MC011502
Rated Speed	13000 RPM ±15% at rated voltage	9800 RPM ±20% at rated voltage	9600 RPM ±15% at rated voltage
Air Flow	3.5 CFM	3 CFM	
Static Pressure	0.25 Inch-H ₂ O	0.18 Inch-H ₂ O	
Acoustic Noise	23 dB(A)	16 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

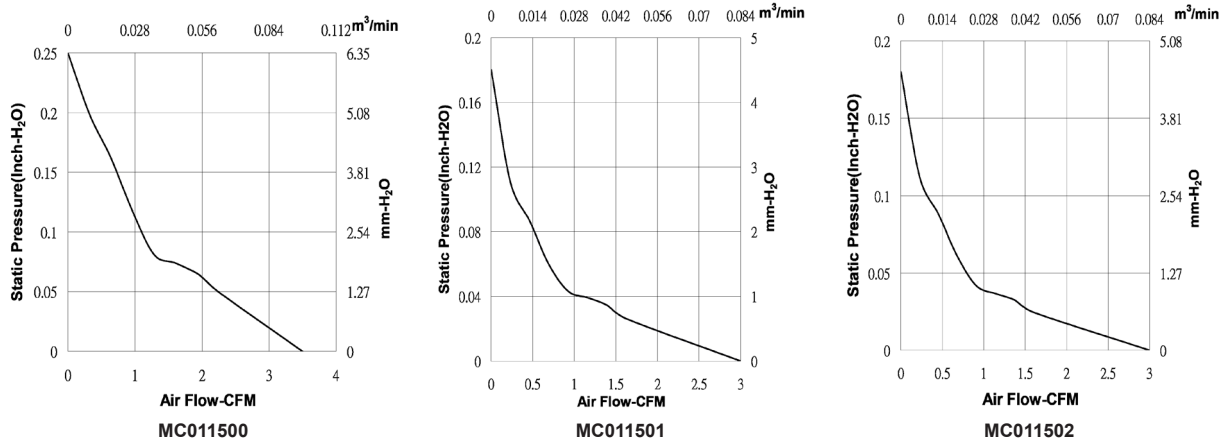
Vapo Bearing, 25mm × 25mm × 10mm



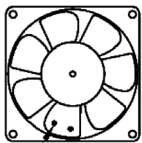
Safety

UL	CUR	TUV	CE
E77551	E77551	✓	✓

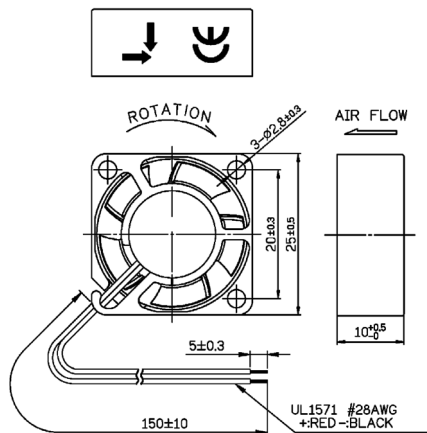
Performance Curve



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, 5V, Vapo, 13000 RPM, 2 Wires	25mm×25mm×10mm	MC011500
Axial DC Fan, 5V, Vapo, 9800 RPM, 2 Wires		MC011501
Axial DC Fan, 12V, Vapo, 9600 RPM, 2 Wires		MC011502

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