

# Axial DC Fans

## Sleeve Bearing, 50mm × 50mm × 10mm



### Mechanical Characteristics

Part Number	MC011493	MC011495
Motor Design	2 phases, 4-poles Brushless DC motor	
Bearing System	Lubricated sleeve bearing system	
Dimensions	50mm × 50mm × 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 4.3mm in 8 Holes	
Weight	19.5g	

### Electrical Characteristics

Part Number	MC011493	MC011495
Rated Voltage	12V DC	
Rated Current	75mA / Max. 87mA	90mA / Max. 104mA
Rated Power Consumption	0.9W / Max. 1.05W	1.08W / Max. 1.25W
Safety Power Consumption	1.11W	1.58W
Operating Voltage Range	6V DC to 13.8V DC	4.5V DC to 13.8V DC
Starting Voltage	6V 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	MC011493	MC011495
Rated Speed	4700 RPM ±15% @ Rated Voltage	5700 RPM ±15% @ Rated Voltage
Air Flow	11 CFM	13 CFM
Static Pressure	0.11 Inch-H <sub>2</sub> O	0.14 Inch-H <sub>2</sub> O
Acoustic Noise	23 dB(A)	30.7 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	35,000 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

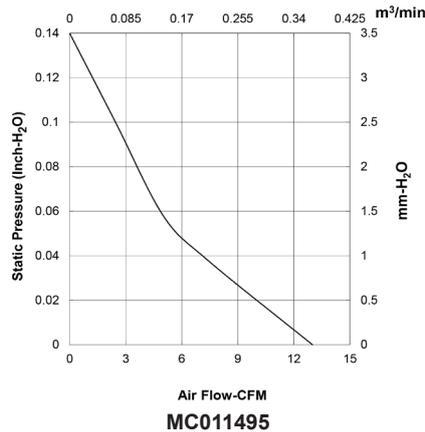
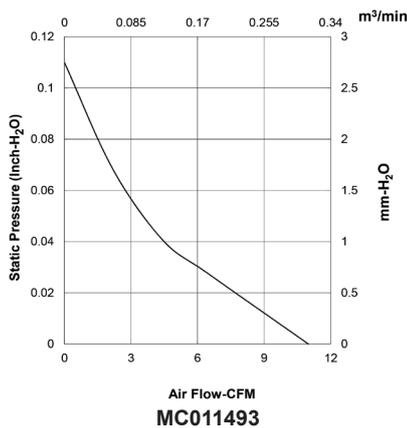
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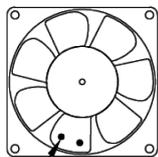
### Safety

UL	CUR	TUV	CE
E77551	E77551	✓	✓

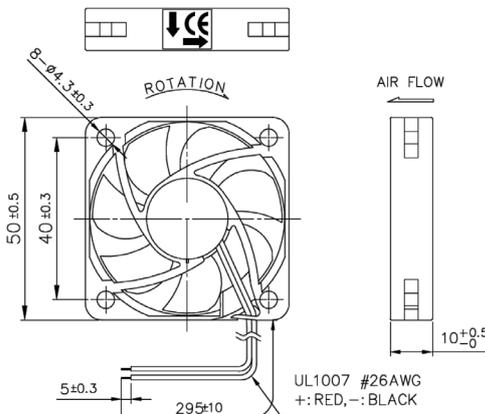
### Performance Curve



### 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, 12V, Sleeve, 4700 RPM, 2 Wires	50mm×50mm×10mm	MC011493
Axial DC Fan, 12V, Sleeve, 5700 RPM, 2 Wires		MC011495

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