

Motor Fan

25mm × 25mm × 6mm



Mechanical Characteristics

Motor Design	: Single Phase, 4-Poles Brushless DC Motor
Bearing System	: Vapo Bearing System
Dimensions	: 25mm × 25mm × 6mm
Frame Material	: Thermoplastic PBT of UL94V-0
Fan Blade Material	: 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	: 5g

Electrical Characteristics

Rated Voltage	: 5V DC
Rated Current	: 115mA / Max. 133mA
Rated Power Consumption	: 0.58W / Max. 0.67W
Safety Power Consumption	: 0.61W
Operating Voltage Range	: 2.5 ~ 6V DC
Starting Voltage	: 2.5V DC (25°C Power ON/OFF)
Operating Temperature Range	: -10°C to +70°C
Storage Temperature Range	: -40°C to +70°C

Performance Characteristics

Rated Speed	: 13000 RPM ±15% @ Rated Voltage
Air Flow	: 3.0 CFM
Static Pressure	: 0.23 Inch-H ₂ O
Acoustic Noise	: 24.8 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

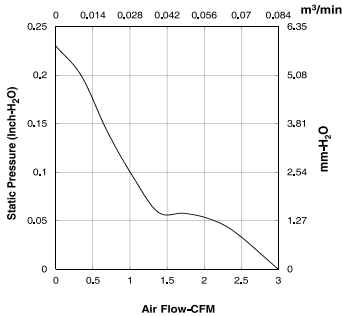
UL	CUR	TUV	CE
E77551	E77551	✓	✓

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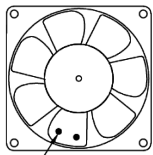


Performance Curve

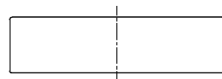


Dimensions

Screw Type (Pan head)	Torque	Screw Spec	
		Size	Standard
Machine screw	1 ~ 2 Kgf-cm	M2.0	JIS B1111-1974

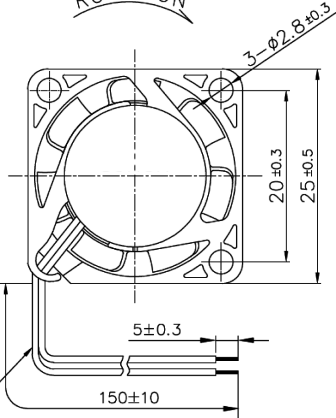


Note: The glues on the impeller is for impeller balance. Please don't remove it.



ROTATION

AIR FLOW



UL1571 #28AWG
+: RED -: BLACK

Dimensions : Millimetres

Part Number Table

Description	Part Number
Fan, Brushless DC Motor, 5V DC, 25mm × 25mm × 6mm	MC011006

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