

# Brushless DC Fan - Vapo Bearing

## 24V DC, 40mm x 40mm x 20mm

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**RoHS  
Compliant**



### Specification

#### Mechanical Characteristic

Motor Design	Single phase, 4-poles Brushless DC motor
Bearing System	Vapo bearing system
Materials of Frame	Thermoplastic PBT of UL 94V-0
Materials of Fan Blade	Thermoplastic PBT of UL 94V-0
Direction of Rotation	Counter-Clockwise Viewed From Front of Fan Blade
Mounting Holes	Diameter 4.3 mm in 4 Holes
Weight	29g

#### Electric Characteristic

Rated Voltage	24V DC
Rated Current	39 mA / Max. 45 mA
Rated Power Consumption	0.94 Watts / Max. 1.08 Watts
Safety Power Consumption	1.11 Watts
Operating Voltage Range	8V DC to 27.6V DC
Starting Voltage	8V DC (25°C Power on/off)
Operating Temperature Range	-10°C to + 70°C
Storage Temperature Range	-40°C To + 70°C

#### Performance Characteristic

Rated Speed	8000 RPM $\pm$ 15% at Rated Voltage
Air Flow	10.8 CFM
Static Pressure	0.29 Inch-H <sub>2</sub> O
Acoustic Noise	27.5 dB (A)
Insulation Class	UL Class A
Insulation Resistance Plastic Housing	10M $\Omega$ at 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 at 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

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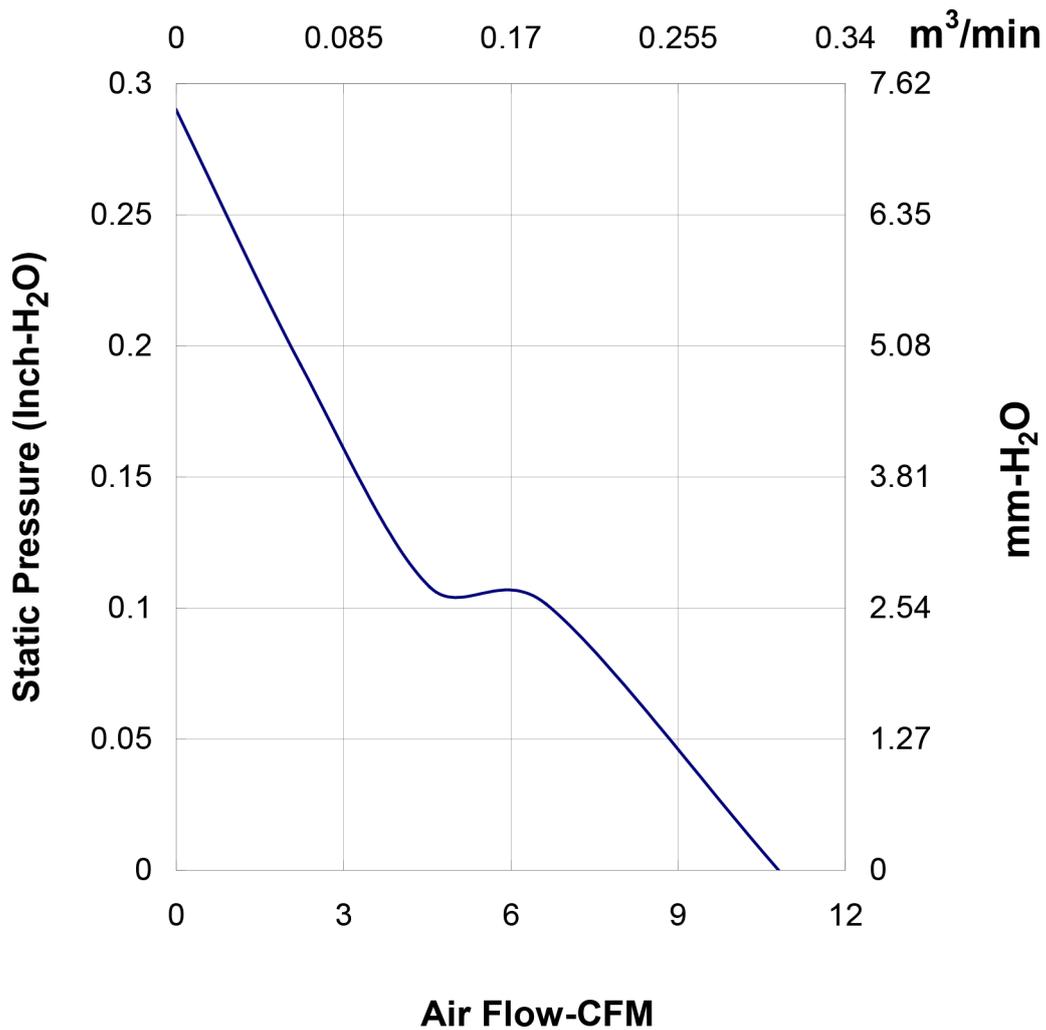
## 24V DC, 40mm x 40mm x 20mm

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### Safety

SAFETY	UL	CUR	TUV	CE
NO.	E77551	E77551	✓	✓

### Pressure Curve



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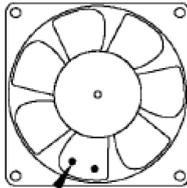
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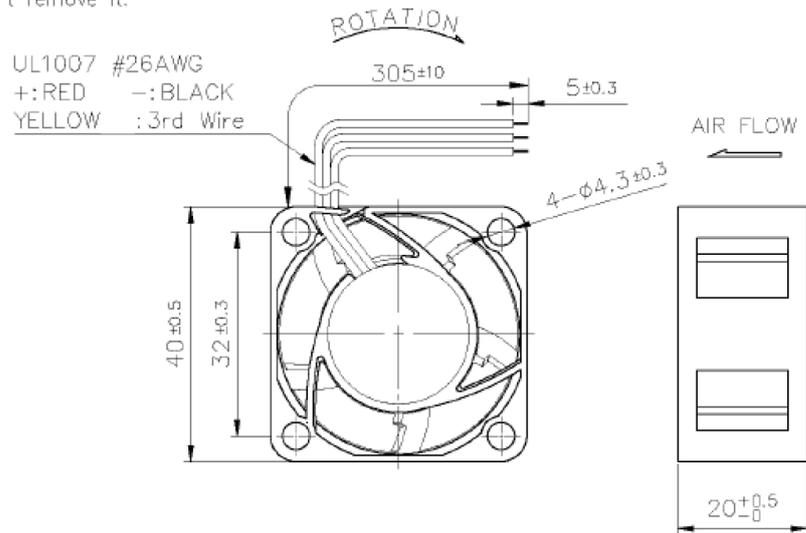
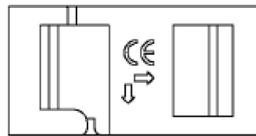
### Dimensions

Screw Type (Pan head)	Torque	Screw Spec	
		Size	Standard
Machine screw	3 Kgf-cm to 4 Kgf-cm	M4	JIS B1111-1974
Self-tapping screw	6 Kgf-cm to 8 Kgf-cm	ϕ5	JIS B1122 Type 2

**Note:** This recommends the screw and torque as above.



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



Dimensions : Millimetres

### Part Number Table

Description	Part Number
Brushless DC Fan, Vapo Bearing, 24V DC, 40mm × 40mm × 20mm, 3 Wire Leads	MP006485

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