

# Brushless DC Fan - Ball Bearing

## 12V DC, 40mm x 40mm x 28mm

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RoHS  
Compliant



### Specification

#### Mechanical Characteristic

Motor Design	Single phase, 4-poles Brushless DC motor
Bearing System	Precision ball 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 3.5 mm in 8 Holes
Weight	45g

#### Electric Characteristic

Rated Voltage	12V DC
Rated Current	246 mA / Max. 283 mA
Rated Power Consumption	2.96 Watts / Max. 3.4 Watts
Safety Power Consumption	3.44 Watts
Operating Voltage Range	6V DC to 13.2V DC
Starting Voltage	6V 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	13000 RPM $\pm$ 15% at Rated Voltage
Air Flow	18 CFM / Min. 16 CFM
Static Pressure	1.1 Inch-H <sub>2</sub> O / Min. 0.84 Inch-H <sub>2</sub> O
Acoustic Noise	48.7 dB(A) /Max. 55 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	70,000 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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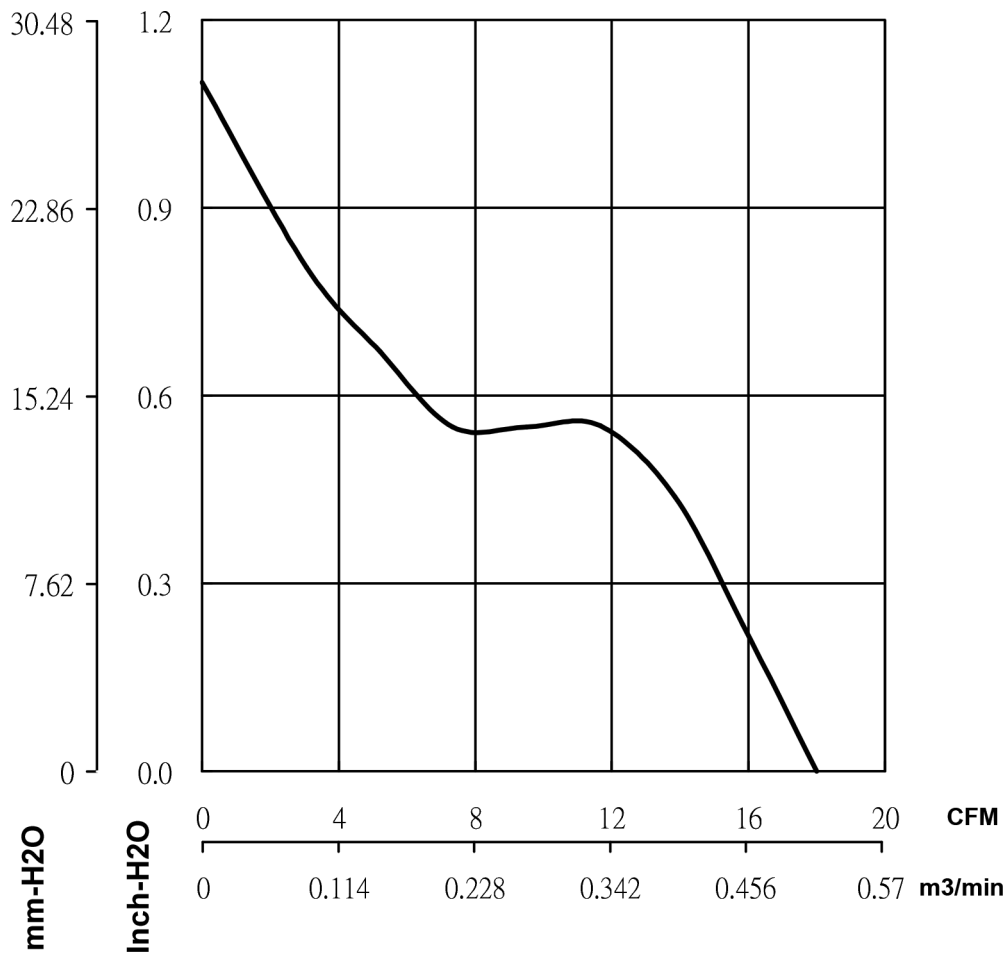
## 12V DC, 40mm x 40mm x 28mm

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### Safety

SAFETY	UL	CUR	TUV	CE
NO.	E77551	E77551	✓	✓

### Air Flow & Static Pressure Curve



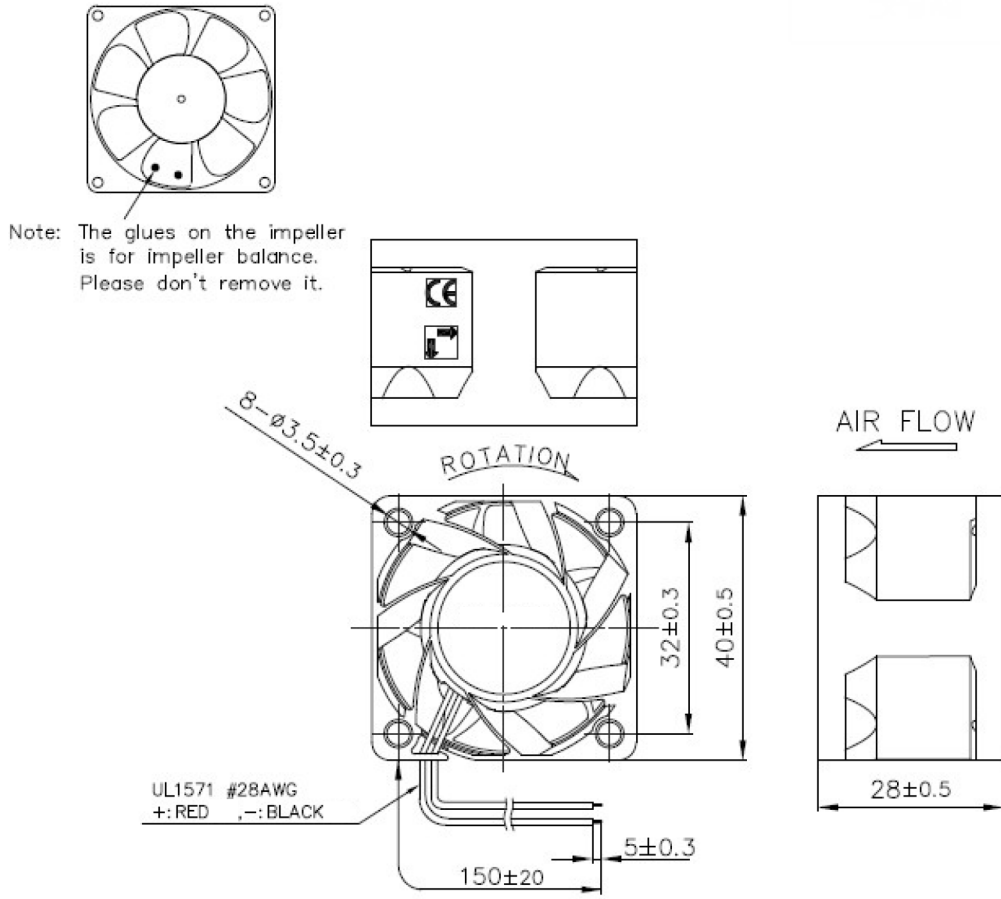
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### Dimensions



Dimensions : Millimetres

### Part Number Table

Description	Part Number
Brushless DC Fan, Ball Bearing, 12V DC, 40mm x 40mm x 28mm, 2 Wire Leads	MP006497

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