Axial Fan for Raspberry Pi 4 Power Hat Case

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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 3.2mm in 3 holes
Weight   : 6g

Electric Characteristic
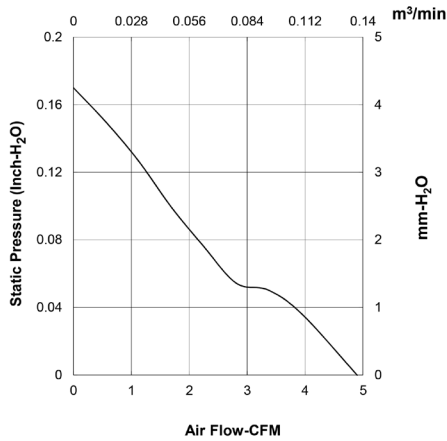
Rated Voltage   : 5V DC
Rated Current   : 112mA / Max. 124mA
Rated Power Consumption   : 0.56 Watts / Max. 0.62 Watts
Safety Power Consumption : 0.72 Watts
Operating Voltage Range   : 2.5V DC to 6V DC
Starting Voltage   : 2.5V DC (25°C power On/Off)
Operating Temperature Range : -10°C to +70°C
Storage Temperature Range : -40°C to +70°C
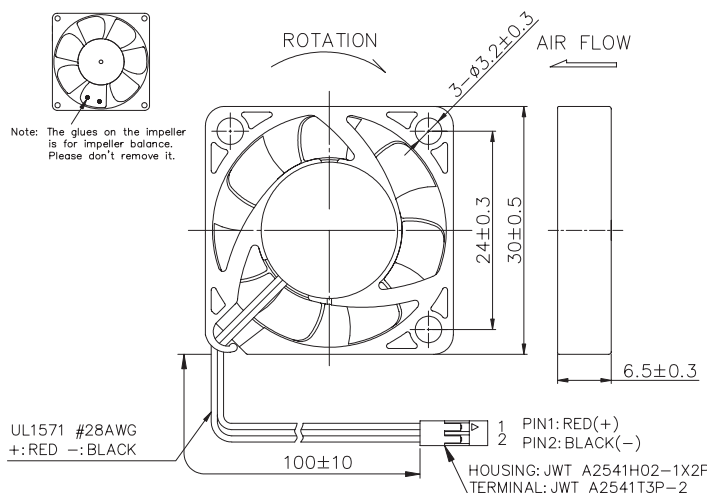
Performance Characteristic

Rated Speed   : 9100 RPM ±15% at rated voltage
Air Flow   : 4.9 CFM
Static Pressure   : 0.17 Inch - H_2O / Min. 0.14 Inch - H_2O
Acoustic Noise   : 23.6dB(A) / Max. 28.3dB(A)
Insulation Class   : UL Class A
Insulation Resistance
Plastic Housing   : 10MΩ 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: The motor will shut down when rotor was locked, then auto restart within 10 seconds
                            Polarity Protection

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Performance Curves

Diagram

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

ROTATION   3−∅3.2±0.3   AIR FLOW

24±0.3

30±0.5

6.5±0.3

UL1571 #28AWG
+:RED −:BLACK

100±10

1 PIN1:RED(+)
2 PIN2:BLACK(−)

HOUSING: JWT A2541H02−1X2P
TERMINAL: JWT A2541T3P−2

Dimensions : Millimetres

Part Number Table

Description	Part Number
Axial Fan, Vapo Bearing, 5V for Raspberry Pi 4 Power Hat Case	MP001243

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