

# Tubeaxial Fan

## 40mm × 40mm × 20mm



**RoHS  
Compliant**



### Mechanical Characteristics

|                        |  |
|------------------------|--|
| Motor Design           | : 2 Phases, 4-poles Brushless DC motor             |
| Bearing System         | : Vapo Bearing System                              |
| Dimensions             | : 40mm × 40mm × 20mm                               |
| 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 4 holes                        |
| Weight                 | : 31g  |

### Electric Characteristic

|                         |                              |
|-------------------------|------------------------------|
| Rated Voltage           | : 24V DC                     |
| Rated Current           | : 50mA/ Max. 58mA            |
| Rated Power Consumption | : 1.2 Watts / Max. 1.4 Watts |
| Operating Voltage Range | : 8 ~ 27.6V DC               |
| Starting Voltage        | : 8V DC (25°C Power ON/OFF)  |
| Operating Temperature   | : -10°C to +70°C             |
| Storage Temperature     | : -40°C to +70°C             |

### Performance Characteristic

|                       |   |
|-----------------------|---|
| Rated Speed           | : 7200RPM ±15% at rated voltage   |
| Air Flow              | : 8.9CFM  |
| Static Pressure       | : 0.21 Inch-H2O   |
| Acoustic Noise        | : 25.5dB(A)   |
| Insulation Class      | : UL Class A  |
| Insulation Resistance |   |
| Plastic Housing       | : 500MΩ 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



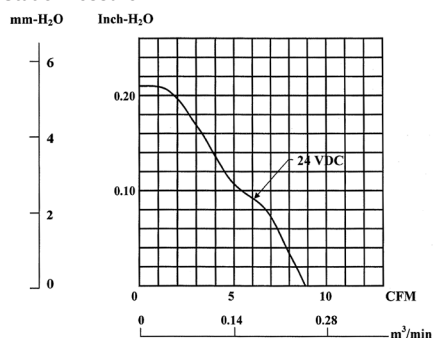
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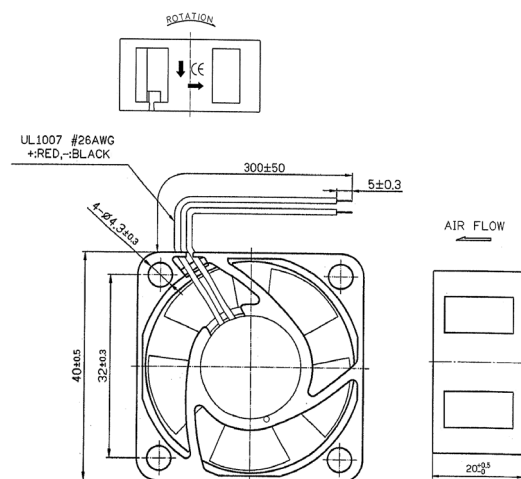


### Performance Curves

Static Pressure



### Dimensions



Dimensions : Millimetres

### Part Number Table

| Description   | Part Number |
|---|-------------|
| Tubeaxial Fan, Brushless Motor, 40mm <sup>2</sup> , Vapo Bearing, 24V DC, 8.9CFM, 25.5dBA | MC21681     |



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