**Centrifugal Fan**

Ø175x69 mm

San Ace C175 9T type

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### General Specifications

- **Material**: Motor case: Aluminum (Black coating), Impeller: Plastic (Flammability: UL 94V-0)
- **Expected life**: See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
- **Motor protection function**: Locked rotor burnout protection, Reverse polarity protection
- **Dielectric strength**: 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and motor case)
- **Insulation resistance**: 10 MΩ or more with a 500 VDC megger (between lead wire conductors and motor case)
- **Sound pressure level (SPL)**: At 1 m away from the air inlet
- **Storage temperature**: -30 to +70°C (Non-condensing)
- **Lead wire**: Red / Black / Sensor / Yellow / Control / Brown
- **Mass**: 750 g

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### Specifications

When the optional inlet nozzle (109-1073) is mounted.

The models listed below have pulse sensors with PWM control function.

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<tbody>
<tr>
<td>9TG24P0G01</td>
<td>24</td>
<td>20.4 to 27.6</td>
<td>100</td>
<td>3.9</td>
<td>93.6</td>
<td>4700</td>
<td>14.0</td>
<td>494.7</td>
<td>885</td>
<td>3.55</td>
<td>73</td>
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<tr>
<td>9TG24P0S01</td>
<td>48</td>
<td>36 to 55.2</td>
<td>100</td>
<td>2.35</td>
<td>56.4</td>
<td>3900</td>
<td>11.6</td>
<td>409.8</td>
<td>609</td>
<td>2.45</td>
<td>69</td>
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<tr>
<td>9TG48P0G01</td>
<td>48</td>
<td>36 to 55.2</td>
<td>100</td>
<td>1.95</td>
<td>93.6</td>
<td>4700</td>
<td>14.0</td>
<td>494.7</td>
<td>885</td>
<td>3.55</td>
<td>73</td>
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</table>

* PWM frequency: 25 kHz. Fan does not rotate when PWM duty cycle is 0%.

Max input is 130 W at rated voltage.

The following sensor and control options are available for selection.

Diffs according to the model. Refer to the table on p. 578. Without sensor / Pulse sensor

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### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**PWM duty cycle**

**Operating voltage range**

**PWM duty - Speed characteristics example**

- Voltage: 24 VDC
- PWM frequency: 25 kHz
- Fan speed: 4700 min⁻¹
### 9TG24P0S01

- **With pulse sensor with PWM control function**

#### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**PWM duty cycle**

- **Operating voltage range**
- **PWM duty - Speed characteristics example**

![Graphs showing airflow vs. static pressure and PWM duty cycle](image)

**Dimensions (unit: mm)**

- Lead wire: AWG22 (Model: 9TG24P0G01)
- AWG24 (Model: 9TG24P0S01, 9TG48P0G01)

![Diagram showing dimensions](image)
**Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)**

Bolt length: 4 to 6 mm.
To prevent bolts from loosening, use plain washers and spring washers.

**Options**

- **Finger guards**  
  Model no.: 109-722, 109-722H  
  page: p. 533

- **Inlet nozzle**  
  Model no.: 109-1073, 109-1073H  
  page: p. 537