

# 92×92×38 mm

San Ace 92T 9GT type  



## General Specifications

- Material ..... Frame: Aluminum, Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 85°C, rated voltage)  
Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 616.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... A-weighted sound pressure level (SPL) at 1 m away from the air inlet.
- Storage temperature ..... -40 to +85°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black ☐Sensor ☐Yellow ☐Control ☐Brown
- Mass ..... 270 g

## Specifications

The models listed below **have a pulse sensor with PWM control.**

| Model no.     | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle* [%] | Rated current [A] | Rated input [W] | Rated speed [min <sup>-1</sup> ] | Max. airflow [m <sup>3</sup> /min] [CFM] | Max. static pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h]           |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------|
| 9GT0912P1M001 | 12                | 10.2 to 13.8                | 100                 | 1.5               | 18.0            | 8100                             | 3.3 116.6                                | 315 1.26                                         | 58           | -40 to +85                 | 40000/85°C<br>(162000/40°C) |
|               |                   |                             | 30                  | 0.3               | 3.6             | 3750                             | 1.5 53.0                                 | 72.0 0.29                                        | 37           |                            |                             |
| 9GT0924P1M001 | 24                | 20.4 to 27.6                | 100                 | 0.75              | 18.0            | 8100                             | 3.3 116.6                                | 315 1.26                                         | 58           |                            |                             |
|               |                   |                             | 30                  | 0.15              | 3.6             | 3750                             | 1.5 53.0                                 | 72.0 0.29                                        | 37           |                            |                             |

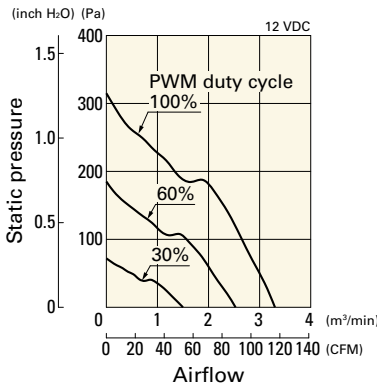
\* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

Note: Sensor and control options are available for selection. Refer to the table on p. 651.

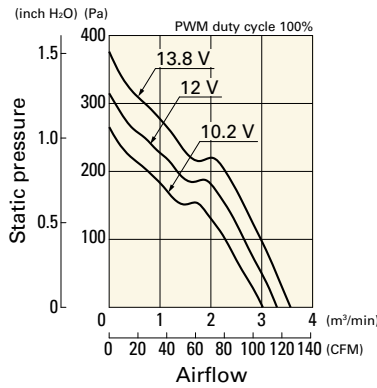
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GT0912P1M001** With pulse sensor with PWM control

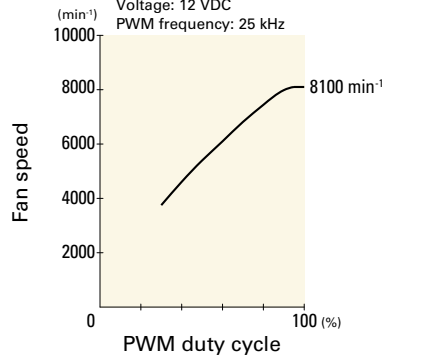
PWM duty cycle



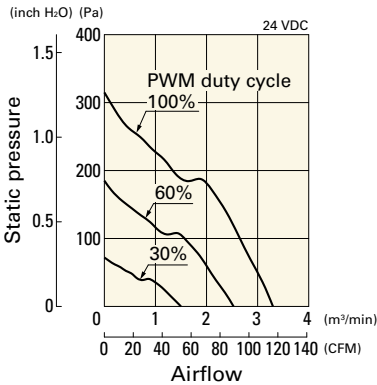
Operating voltage range



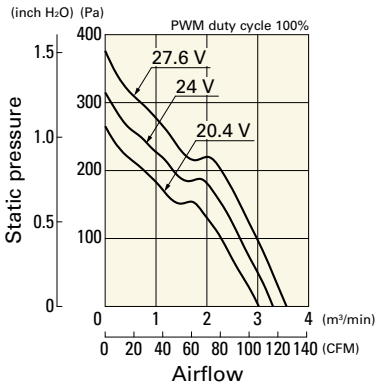
PWM duty - Speed characteristics example



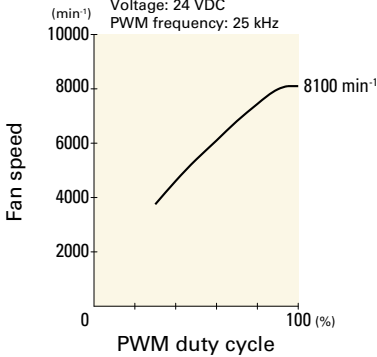
PWM duty cycle



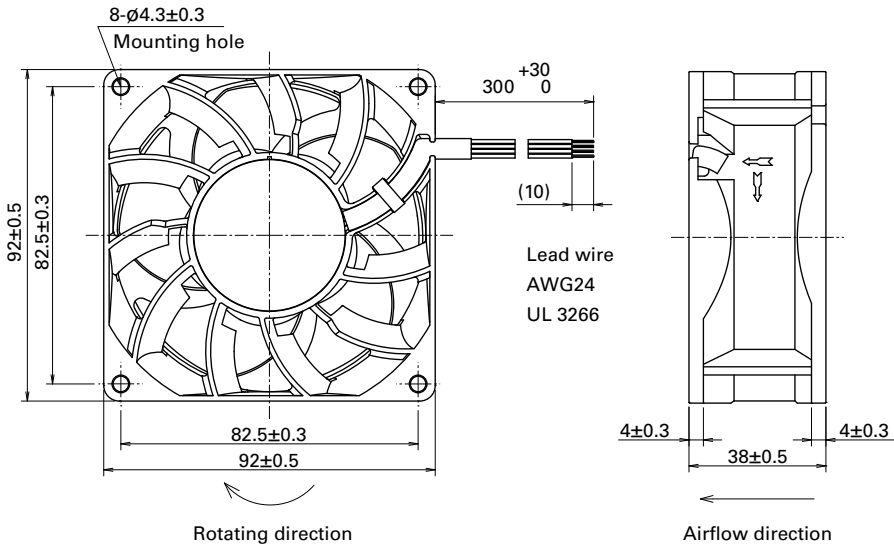
Operating voltage range



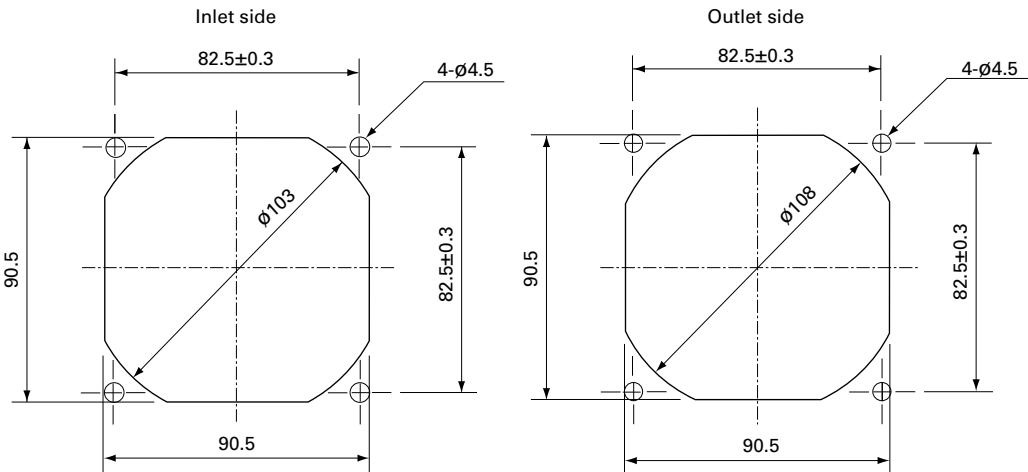
PWM duty - Speed characteristics example



Dimensions (unit: mm)



Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



Options

Finger guards

page: p. 598

Model no.: 109-099E, 109-099H

DC

Wide Temperature Range Fan 92 mm sq.

# 120×120×38 mm

San Ace 120T 9GT type  



## General Specifications

- Material ..... Frame: Aluminum, Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 85°C, rated voltage)  
Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 616.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... A-weighted sound pressure level (SPL) at 1 m away from the air inlet.
- Storage temperature ..... -40 to +85°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black ☐Sensor ☐Yellow ☐Control ☐Brown
- Mass ..... 420 g

## Specifications

The models listed below **have a pulse sensor with PWM control.**

| Model no.     | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle* [%] | Rated current [A] | Rated input [W] | Rated speed [min <sup>-1</sup> ] | Max. airflow [m <sup>3</sup> /min] [CFM] | Max. static pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h]           |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------|
| 9GT1212P1S001 | 12                | 9.0 to 13.8                 | 100                 | 2.2               | 26.4            | 5600                             | 6.0 211.8                                | 270 1.08                                         | 58           | -40 to +85                 | 40000/85°C<br>(162000/40°C) |
|               |                   |                             | 35                  | 0.48              | 5.76            | 2900                             | 3.0 106.0                                | 85.6 0.34                                        | 41           |                            |                             |
| 9GT1224P1S001 | 24                | 18.0 to 27.6                | 100                 | 1.1               | 26.4            | 5600                             | 6.0 211.8                                | 270 1.08                                         | 58           |                            |                             |
|               |                   |                             | 35                  | 0.24              | 5.76            | 2900                             | 3.0 106.0                                | 85.6 0.34                                        | 41           |                            |                             |

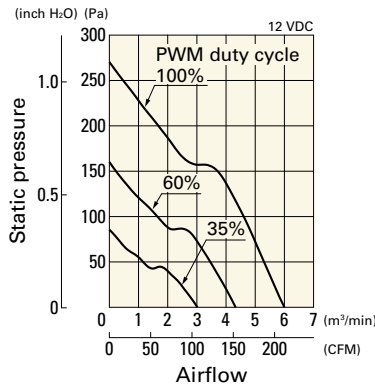
\* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

Note: Sensor and control options are available for selection. Refer to the table on p. 651.

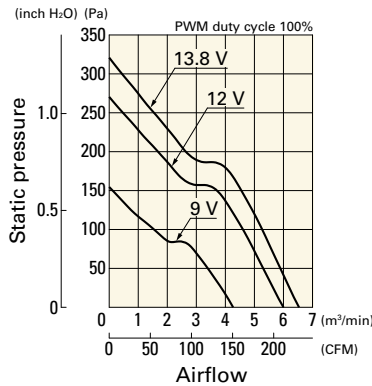
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GT1212P1S001** With pulse sensor with PWM control

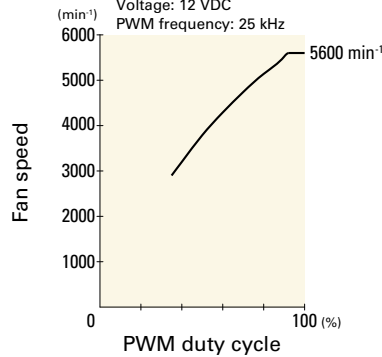
PWM duty cycle



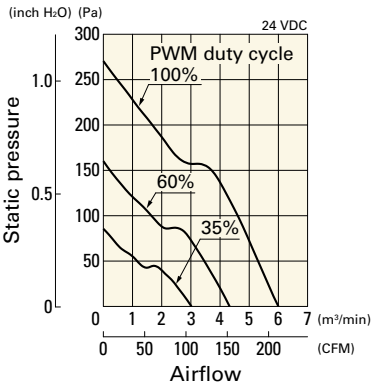
Operating voltage range



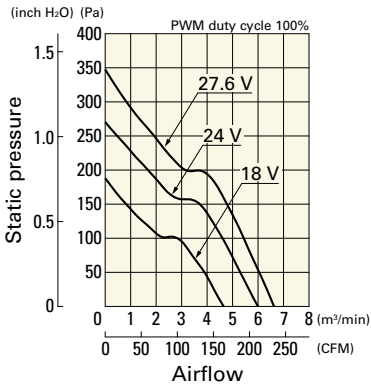
PWM duty - Speed characteristics example



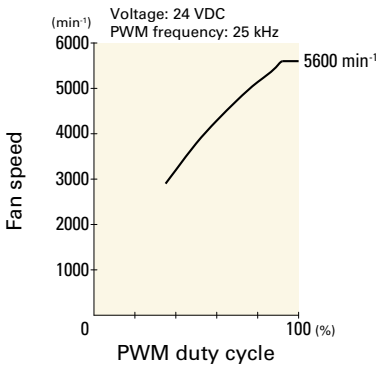
PWM duty cycle



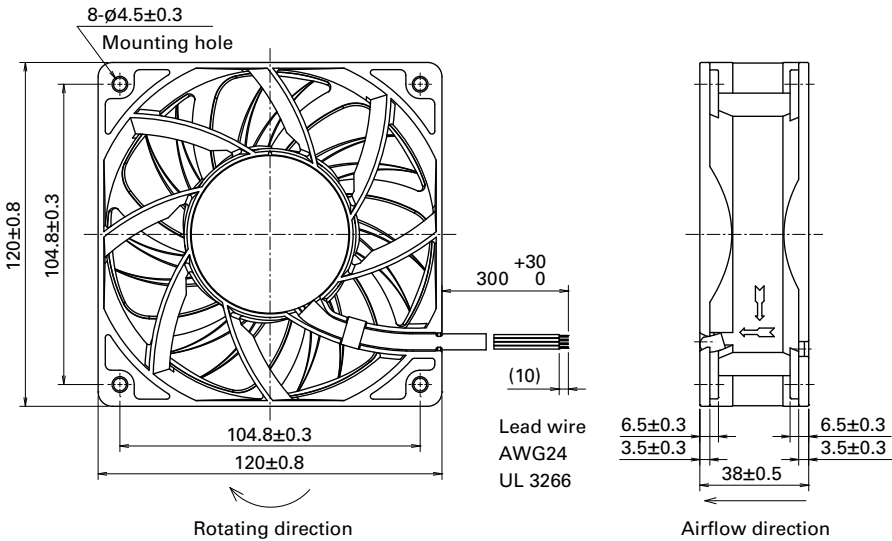
Operating voltage range



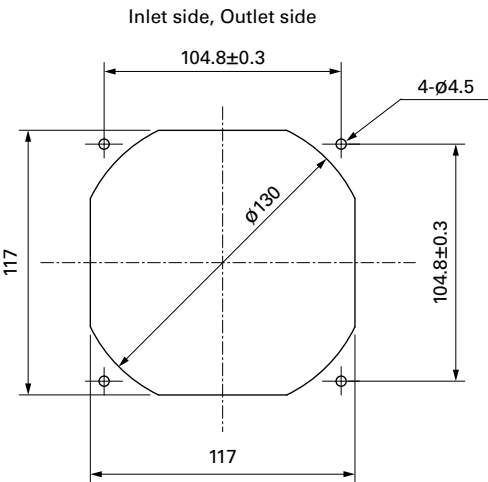
PWM duty - Speed characteristics example



Dimensions (unit: mm)



Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



Options

Finger guards

page: p. 599

Model no.: 109-019E, 109-019K

