



# 92x92x25 mm

San Ace 92 9GA type Low Power Consumption Fan

## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), 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  
For details, please refer to p. 529.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- 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 ..... 125 g

## Specifications

The models listed below **have ribs and pulse sensors with PWM control function.** For models without ribs, append "1" to the end of model numbers.

| 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] |
|--------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|
| 9GA0912P4J03 | 12                | 10.2 to 13.8                | 100                 | 0.39              | 4.68            | 5000                             | 2.2 77.7                                 | 105 0.42   | 43           | -20 to +70                 | 60000/60°C        |
|              |                   |                             | 0                   | 0.06              | 0.72            | 1500                             | 0.65 23.3                                | 9.4 0.04   | 14           |                            |                   |
| 9GA0912P4G03 |                   |                             | 100                 | 0.28              | 3.36            | 4400                             | 1.93 68.2                                | 81 0.33  | 39           |                            |                   |
|              |                   |                             | 0                   | 0.06              | 0.72            | 1500                             | 0.65 23.3                                | 9.4 0.04   | 14           |                            |                   |
| 9GA0912P4S03 |                   |                             | 100                 | 0.2               | 2.4             | 3800                             | 1.67 59.0                                | 60.6 0.24  | 35           |                            |                   |
|              |                   |                             | 0                   | 0.06              | 0.72            | 1500                             | 0.65 23.3                                | 9.4 0.04   | 14           |                            |                   |
| 9GA0924P4J03 | 24                | 20.4 to 27.6                | 100                 | 0.2               | 4.8             | 5000                             | 2.2 77.7                                 | 105 0.42   | 43           |                            |                   |
|              |                   |                             | 0                   | 0.04              | 0.96            | 1500                             | 0.65 23.3                                | 9.4 0.04   | 14           |                            |                   |
| 9GA0924P4G03 |                   |                             | 100                 | 0.15              | 3.6             | 4400                             | 1.93 68.2                                | 81 0.33  | 39           |                            |                   |
|              |                   |                             | 0                   | 0.04              | 0.96            | 1500                             | 0.65 23.3                                | 9.4 0.04   | 14           |                            |                   |
| 9GA0924P4S03 |                   |                             | 100                 | 0.12              | 2.88            | 3800                             | 1.67 59.0                                | 60.6 0.24  | 35           |                            |                   |
|              |                   |                             | 0                   | 0.04              | 0.96            | 1500                             | 0.65 23.3                                | 9.4 0.04   | 14           |                            |                   |

\* PWM frequency: 25 kHz

Other sensor specifications are available as options. Refer to the index (p. 553).

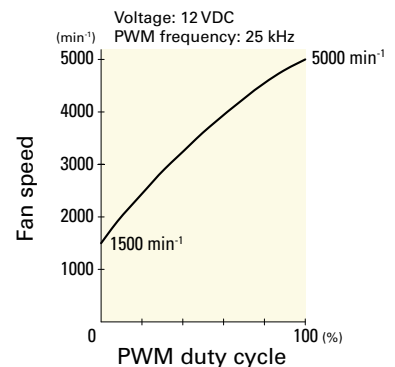
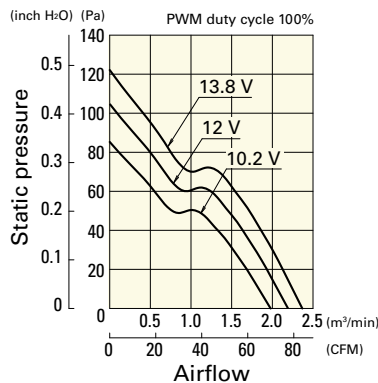
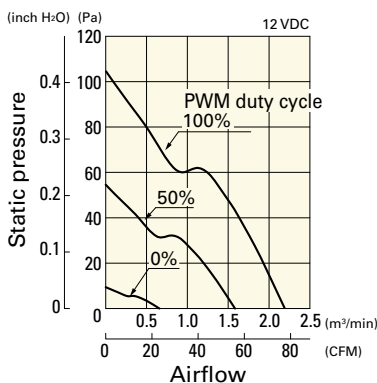
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0912P4J03** With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

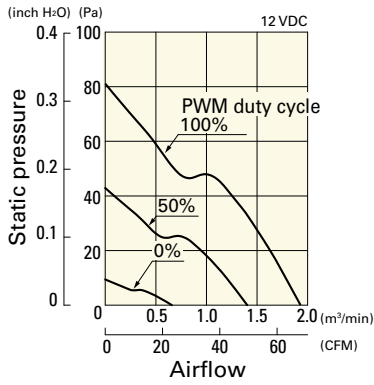
PWM duty - Speed characteristics example



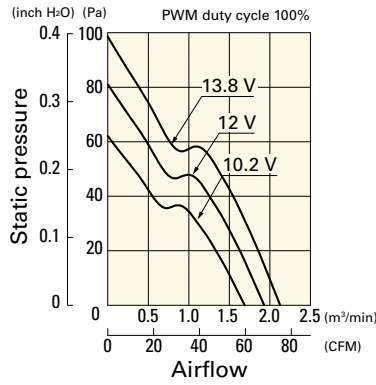
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0912P4G03** With pulse sensor with PWM control function

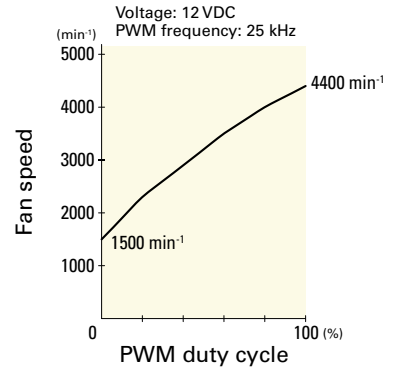
PWM duty cycle



Operating voltage range

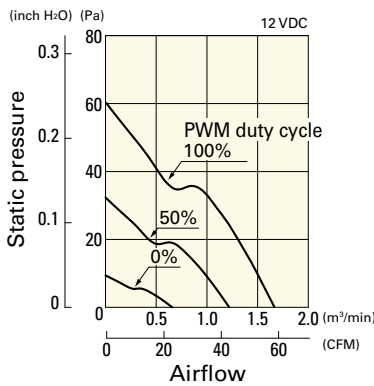


PWM duty - Speed characteristics example

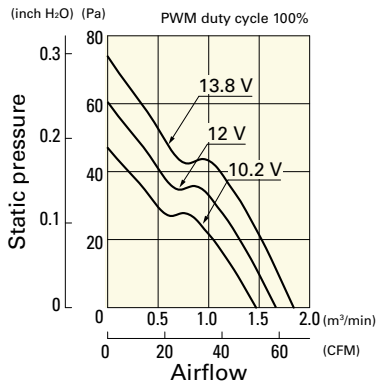


**9GA0912P4S03** With pulse sensor with PWM control function

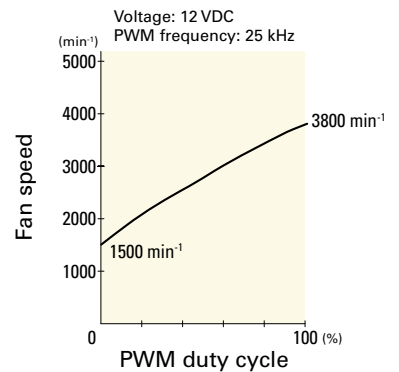
PWM duty cycle



Operating voltage range

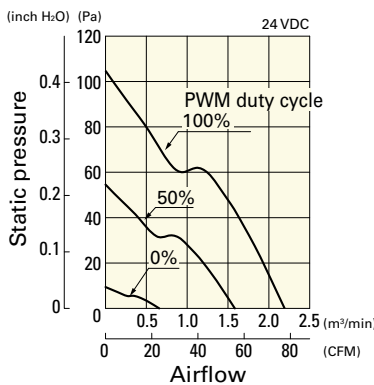


PWM duty - Speed characteristics example

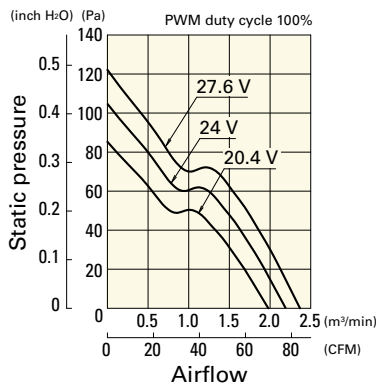


**9GA0924P4J03** With pulse sensor with PWM control function

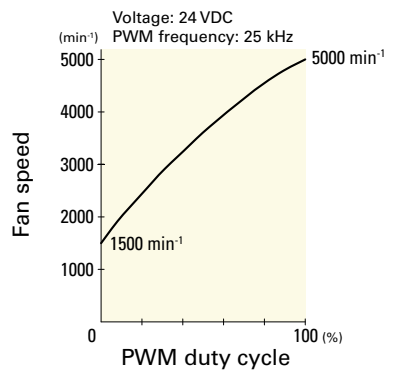
PWM duty cycle



Operating voltage range

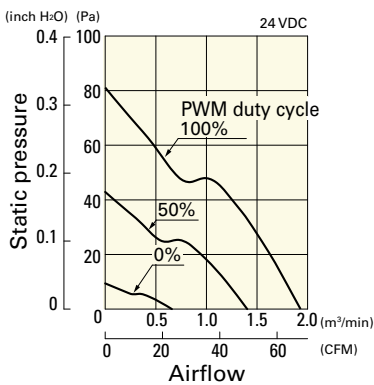


PWM duty - Speed characteristics example

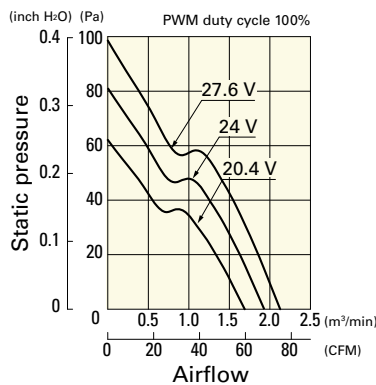


**9GA0924P4G03** With pulse sensor with PWM control function

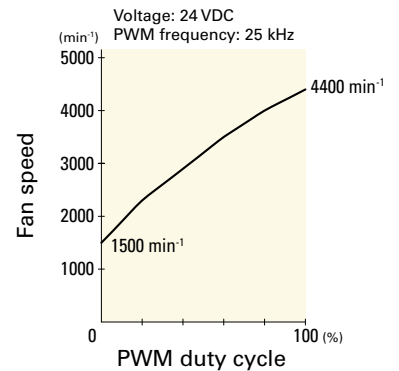
PWM duty cycle



Operating voltage range



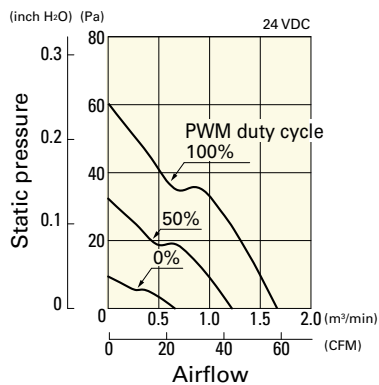
PWM duty - Speed characteristics example



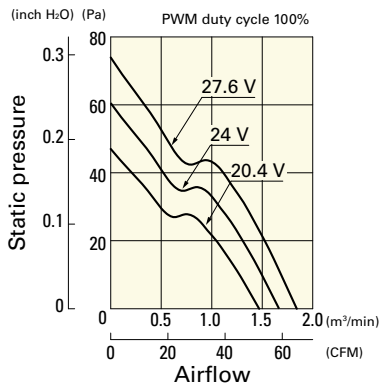
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0924P4S03** With pulse sensor with PWM control function

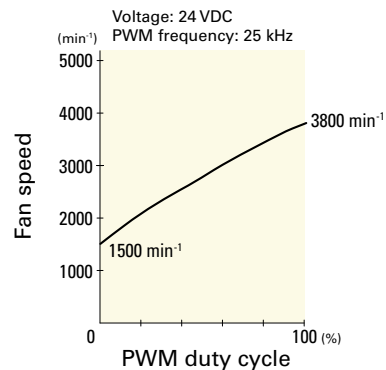
PWM duty cycle



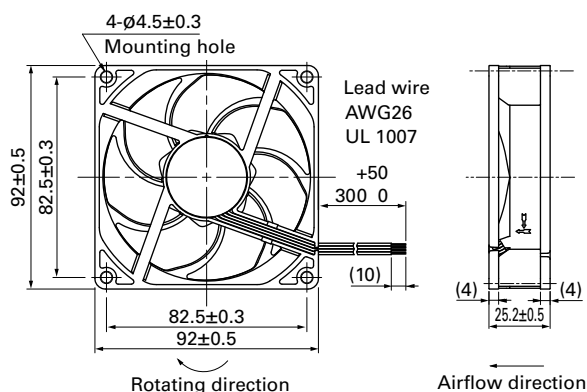
Operating voltage range



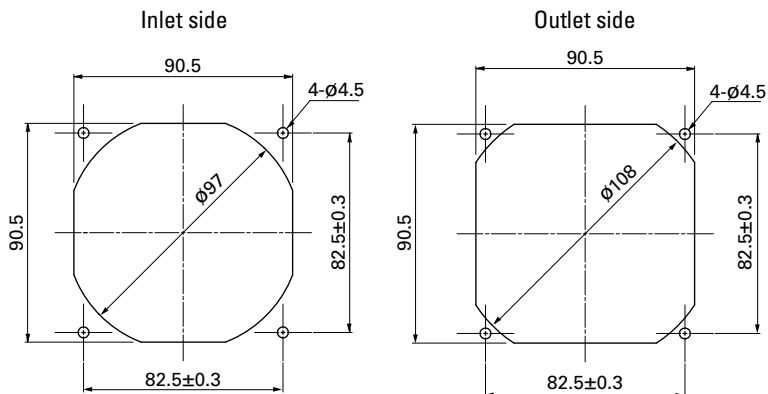
PWM duty - Speed characteristics example



## Dimensions (unit: mm) (With ribs)



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



## Options

**Finger guards** page: p. 513  
Model no.: 109-099C, 109-099E, 109-099H

**Resin finger guards** page: p. 520  
Model no.: 109-1001G

**Resin filter kits** page: p. 521  
Model no.: 109-1001F13 (13PPI), 109-1001F20 (20PPI),  
109-1001F30 (30PPI), 109-1001F40 (40PPI)

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