

# 80×80×15 mm

**San Ace 80 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. 547.
- 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  
(For models without PWM control function, there is no speed control wiring.)
- Mass ..... 65 g

## Specifications

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

| 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]          |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------|
| 9GA0812P7G001 | 12                | 10.2 to 13.8                | 100                 | 0.29              | 3.48            | 6100                             | 1.44 50.9                                | 84.0 0.34                                        | 41           | -20 to +70                 | 40000/60°C<br>(70000/40°C) |
| 9GA0812P7S001 |                   |                             | 100                 | 0.17              | 2.04            | 5000                             | 1.18 41.7                                | 56.4 0.23                                        | 37           |                            |                            |
| 9GA0824P7G001 | 24                | 20.4 to 27.6                | 100                 | 0.13              | 3.12            | 6100                             | 1.44 50.9                                | 84.0 0.34                                        | 41           |                            |                            |
| 9GA0824P7S001 |                   |                             | 100                 | 0.08              | 1.92            | 5000                             | 1.18 41.7                                | 56.4 0.23                                        | 37           |                            |                            |

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

The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on pp. 571 to 572. **Lock sensor**

The models listed below **have ribs and pulse sensors.**

| Model no.    | Rated voltage [V] | Operating voltage range [V] | 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]          |
|--------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------|
| 9GA0812H7001 | 12                | 6 to 13.2                   | 0.09              | 1.08            | 3800                             | 0.89 31.4                                | 32.6 0.13                                        | 29           | -20 to +70                 | 40000/60°C<br>(70000/40°C) |
| 9GA0824H7001 | 24                | 12 to 26.4                  | 0.05              | 1.2             | 3800                             | 0.89 31.4                                | 32.6 0.13                                        | 29           |                            |                            |

The following sensor and control options are available for selection.

Available for all models. **Lock sensor**

Differs according to the model. Refer to the table on p. 571. **Without sensor**

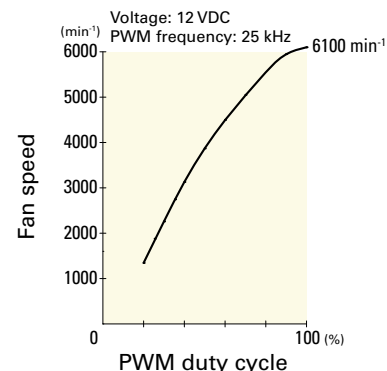
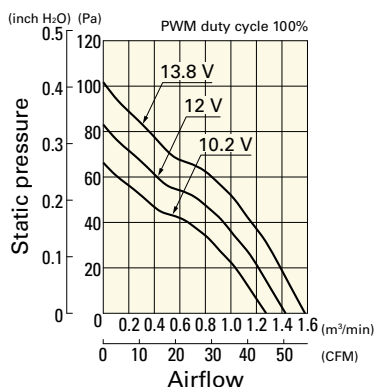
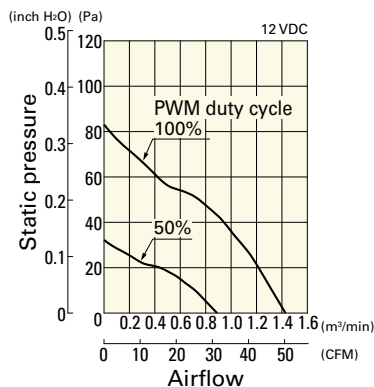
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P7G001** With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

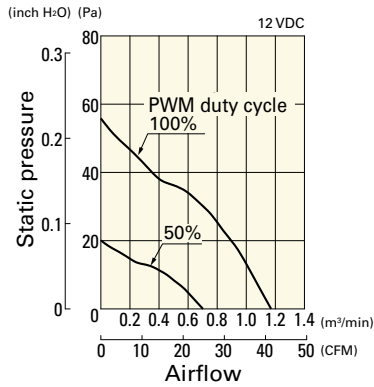
PWM duty - Speed characteristics example



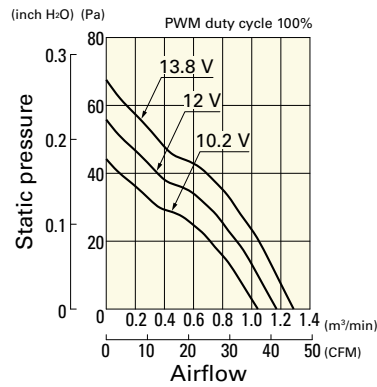
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P7S001** With pulse sensor with PWM control function

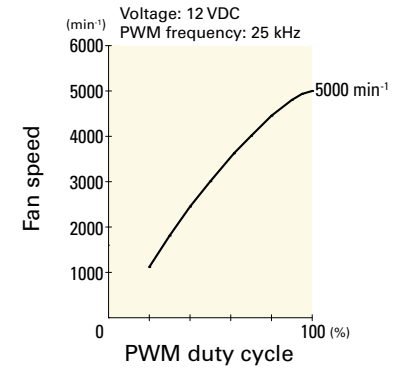
PWM duty cycle



Operating voltage range

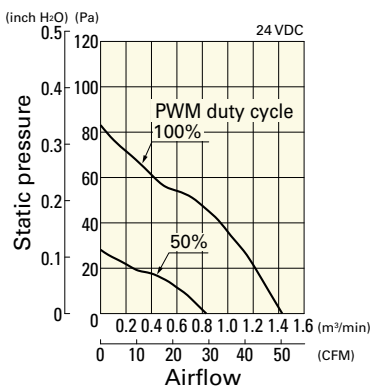


PWM duty - Speed characteristics example

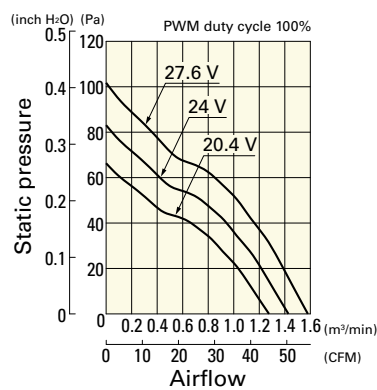


**9GA0824P7G001** With pulse sensor with PWM control function

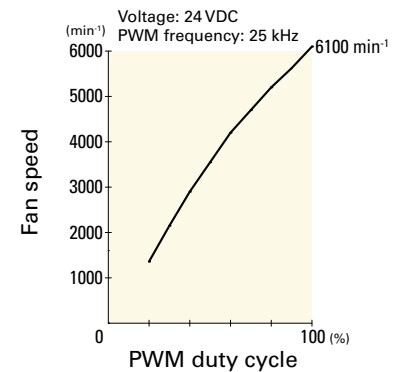
PWM duty cycle



Operating voltage range

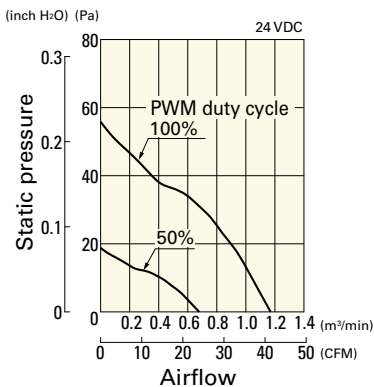


PWM duty - Speed characteristics example

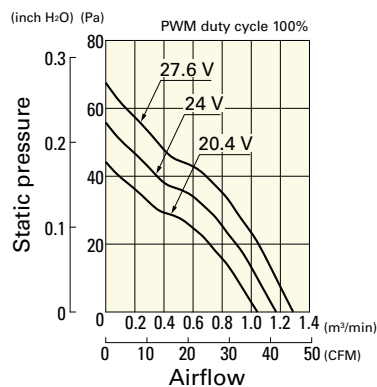


**9GA0824P7S001** With pulse sensor with PWM control function

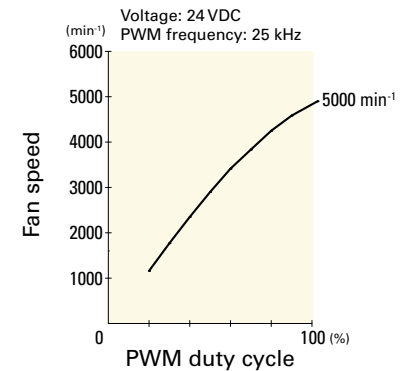
PWM duty cycle



Operating voltage range

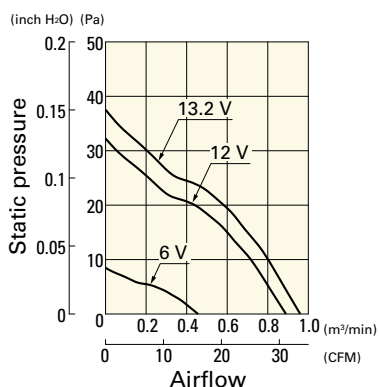


PWM duty - Speed characteristics example



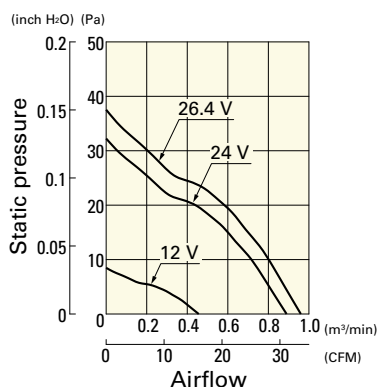
**9GA0812H7001** With pulse sensor

Operating voltage range

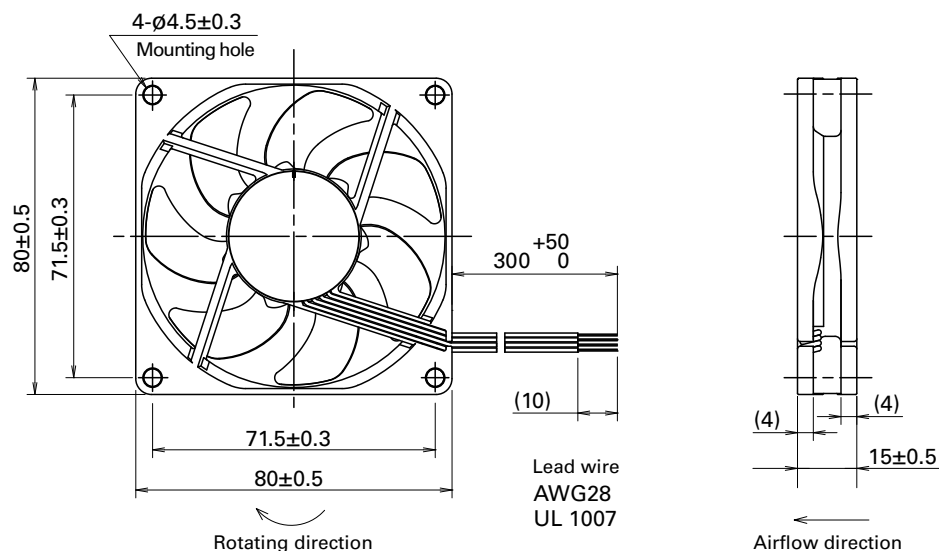


**9GA0824H7001** With pulse sensor

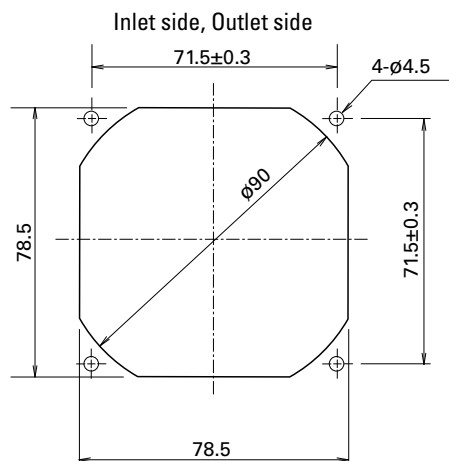
Operating voltage range



## ■ Dimensions (unit: mm) (With pulse sensor with PWM control function)



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



## ■ Options

### Finger guards

page: p. 532

Model no.: 109-049E, 109-049H, 109-049C

### Resin finger guards

page: p. 539

Model no.: 109-1002G

### Resin filter kits

page: p. 540

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),  
109-1002F30 (30PPI), 109-1002F40 (40PPI)



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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