



60×60×20 mm

San Ace 60 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 70 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 ⁻¹] | Max. airflow [m ³ /min] [CFM] | Max. static pressure [Pa] [inchH ₂ O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h] |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------|
| 9GA0612P6G001 | 12 | 10.8 to 13.2 | 100 | 0.26 | 3.12 | 6850 | 0.88 31.1 | 125 0.5 | 43 | -20 to +70 | 40000/60°C (70000/40°C) |
| 9GA0612P6S001 | | | 100 | 0.15 | 1.8 | 5500 | 0.7 24.7 | 81 0.33 | 36 | | |
| 9GA0624P6G001 | 24 | 21.6 to 26.4 | 100 | 0.12 | 2.88 | 6850 | 0.88 31.1 | 125 0.5 | 43 | | |
| 9GA0624P6S001 | | | 100 | 0.07 | 1.68 | 5500 | 0.7 24.7 | 81 0.33 | 36 | | |

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

The following sensor and control options are available for selection.

Available for all models. **Without sensor**

Differs according to the model. Refer to the table on p. 571. **Pulse 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 ⁻¹] | Max. airflow [m ³ /min] [CFM] | Max. static pressure [Pa] [inchH ₂ O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h] |
|--------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|-------------------|
| 9GA0612H6001 | 12 | 10.8 to 13.2 | 0.09 | 1.08 | 4100 | 0.52 18.4 | 45 0.18 | 29 | -20 to +70 | 60000/60°C |
| 9GA0612M6001 | | | 0.05 | 0.6 | 2700 | 0.34 12.0 | 20 0.08 | 18 | | |
| 9GA0624H6001 | 24 | 21.6 to 26.4 | 0.04 | 0.96 | 4100 | 0.52 18.4 | 45 0.18 | 29 | | |
| 9GA0624M6001 | | | 0.03 | 0.72 | 2700 | 0.34 12.0 | 20 0.08 | 18 | | |

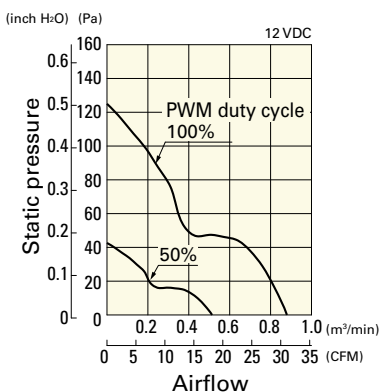
The following sensor and control options are available for selection.

Available for all models. **Without sensor** **Lock sensor**

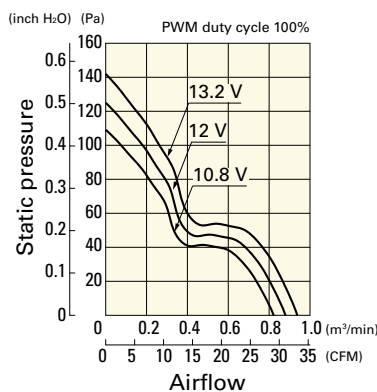
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0612P6G001 With pulse sensor with PWM control function

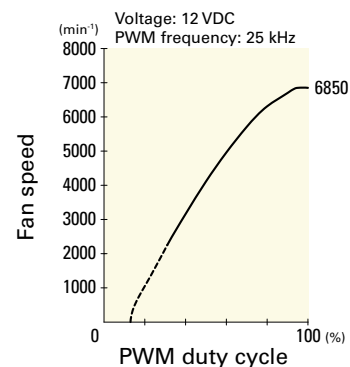
PWM duty cycle



Operating voltage range



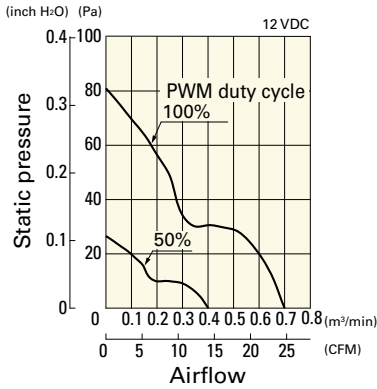
PWM duty - Speed characteristics example



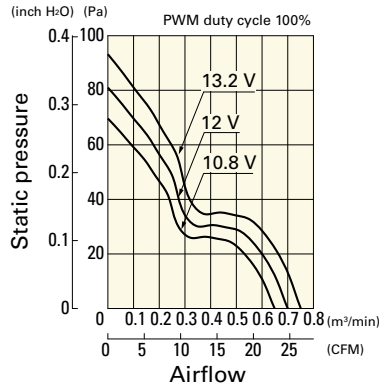
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0612P6S001 With pulse sensor with PWM control function

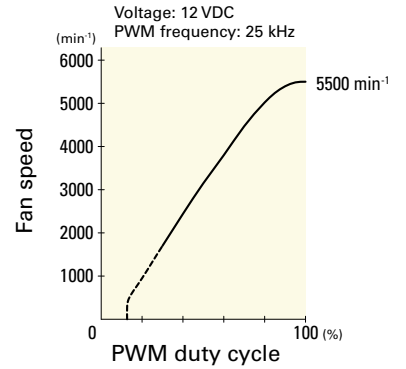
PWM duty cycle



Operating voltage range

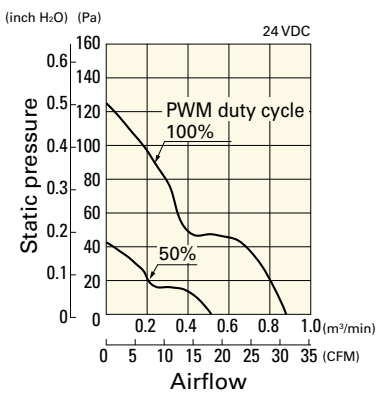


PWM duty - Speed characteristics example

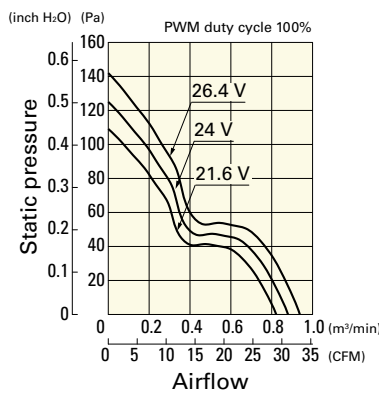


9GA0624P6G001 With pulse sensor with PWM control function

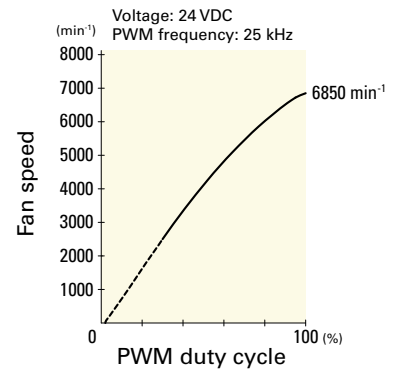
PWM duty cycle



Operating voltage range

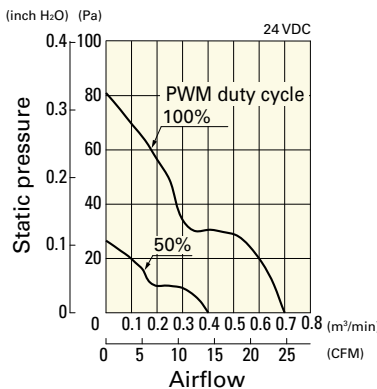


PWM duty - Speed characteristics example

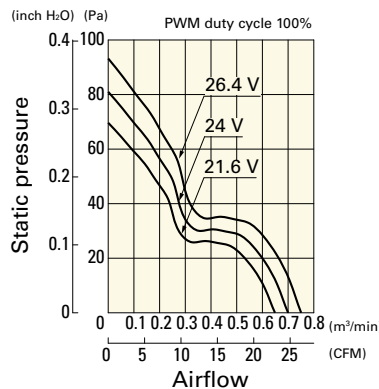


9GA0624P6S001 With pulse sensor with PWM control function

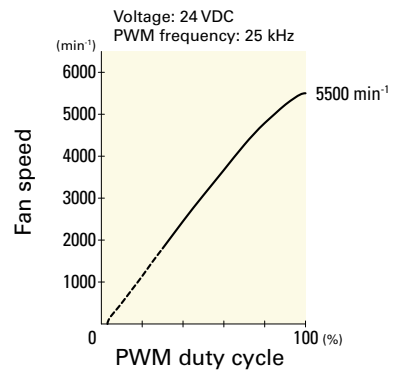
PWM duty cycle



Operating voltage range

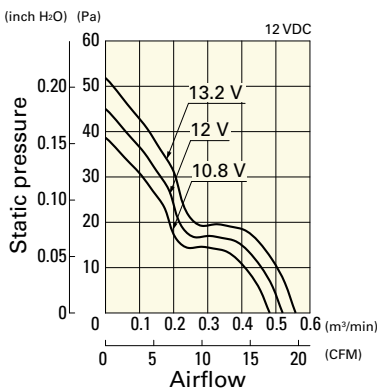


PWM duty - Speed characteristics example



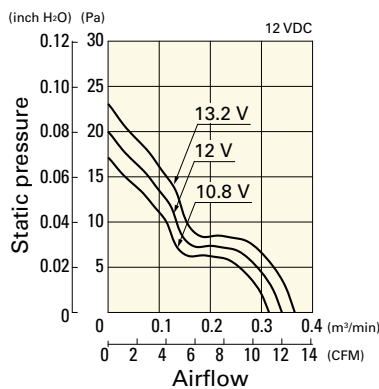
9GA0612H6001 With pulse sensor

Operating voltage range



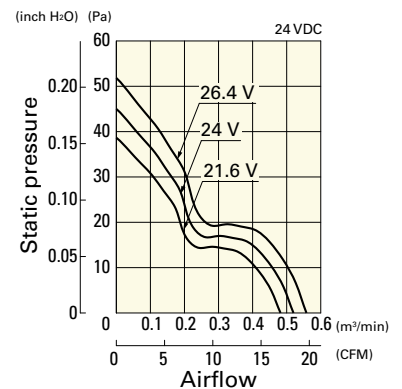
9GA0612M6001 With pulse sensor

Operating voltage range



9GA0624H6001 With pulse sensor

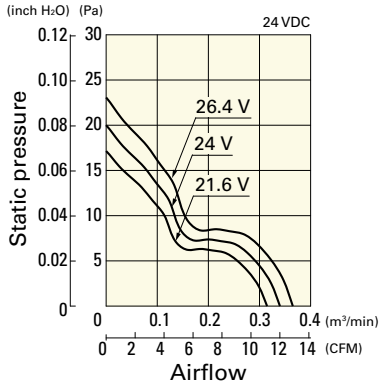
Operating voltage range



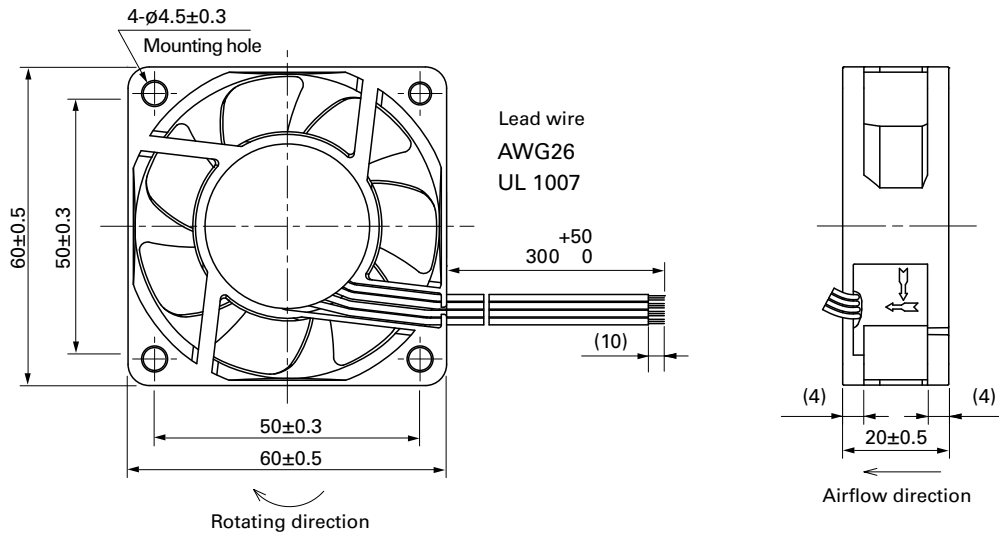
Airflow - Static Pressure Characteristics

9GA0624M6001 With pulse sensor

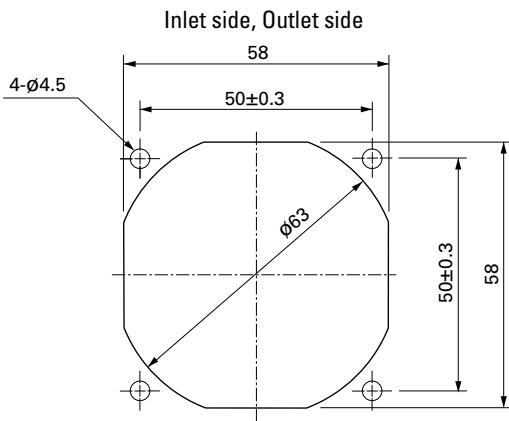
Operating voltage range



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.: 109-139E, 109-139H

Resin finger guards page: p. 539

Model no.: 109-1003G

Resin filter kits page: p. 540

Model no.: 109-1003F13 (13PPI), 109-1003F20 (20PPI), 109-1003F30 (30PPI), 109-1003F40 (40PPI)

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