

# Ø172×150×51 mm

**San Ace 172 9SG** type  **US**

Sidecut 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 60°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. 573.
- 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 ..... 760 g

## Specifications

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

|   | Model no.    | Rated voltage<br>[V] | Operating voltage range<br>[V] | PWM duty<br>cycle* [%] | Rated current<br>[A] | Rated input<br>[W] | Rated speed<br>[min <sup>-1</sup> ] | Max. airflow<br>[m³/min]    [CFM] |      | Max. static pressure<br>[Pa]    [inchH <sub>2</sub> O] |      | SPL<br>[dB (A)] | Operating temperature<br>[°C] | Expected life<br>[h]       |
|---|--------------|----------------------|--------------------------------|------------------------|----------------------|--------------------|-------------------------------------|-----------------------------------|------|--------------------------------------------------------|------|-----------------|-------------------------------|----------------------------|
| » | 9SG5724P5H61 | 24                   | 20.4 to 27.6                   | 100                    | 2.8                  | 67.2               | 6500                                | 11.6                              | 410  | 540                                                    | 2.16 | 71              | -20 to +70                    | 40000/60°C<br>(70000/40°C) |
|   |              |                      |                                | 0                      | 0.18                 | 4.32               | 1300                                | 2.32                              | 81.9 | 30                                                     | 0.12 | 28              |                               |                            |
| » | 9SG5748P5G01 | 48                   | 36 to 72                       | 100                    | 2.91                 | 140                | 8600                                | 15.46                             | 546  | 1000                                                   | 4.02 | 78              | -20 to +60                    |                            |
|   |              |                      |                                | 0                      | 0.21                 | 10.1               | 2000                                | 3.59                              | 127  | 75.1                                                   | 0.3  | 40              |                               |                            |
|   |              |                      |                                | 100                    | 1.62                 | 78                 | 6500                                | 11.6                              | 410  | 770                                                    | 3.09 | 71              |                               |                            |
| » | 9SG5748P5H01 |                      |                                |                        | 0                    | 0.21               | 10.1                                | 2000                              | 3.59 | 127                                                    | 75.1 | 0.3             |                               |                            |

\* PWM input frequency is 25 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on p. 610.

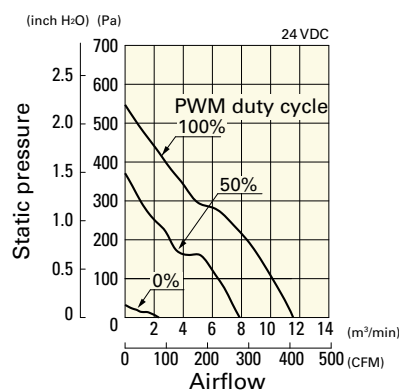
**Without sensor**

The ▶▶ mark indicates Short LeadTime Service applicable models. See p. 626 for details.

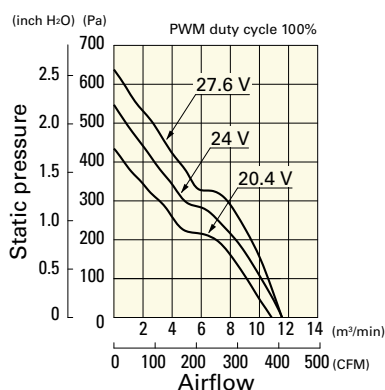
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9SG5724P5H61** With pulse sensor with PWM control function

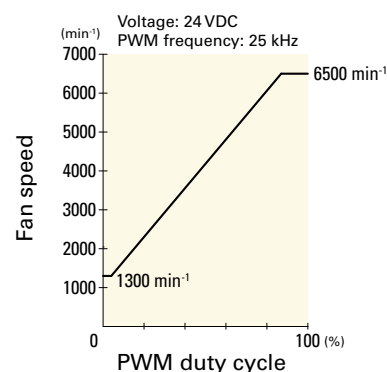
PWM duty cycle



Operating voltage range



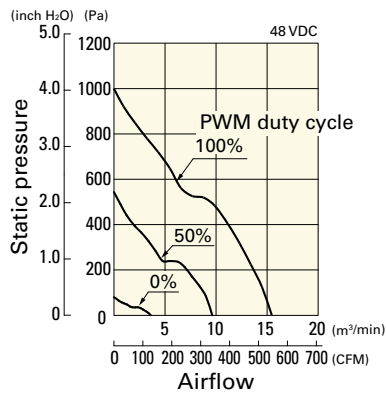
PWM duty - Speed characteristics example



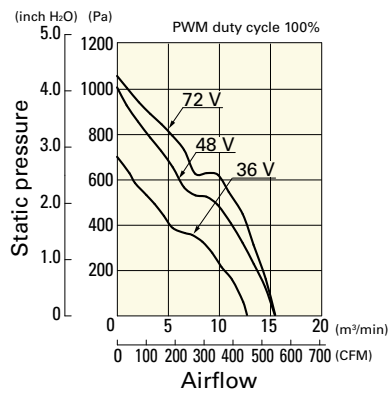
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9SG5748P5G01** With pulse sensor with PWM control function

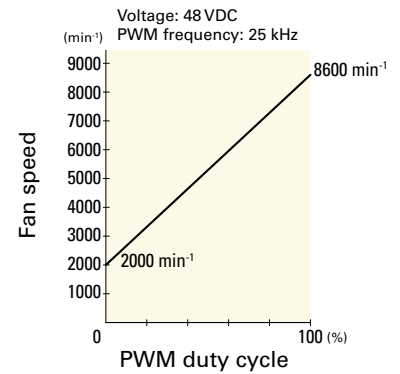
PWM duty cycle



Operating voltage range

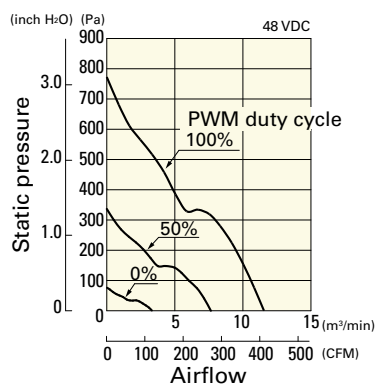


PWM duty - Speed characteristics example

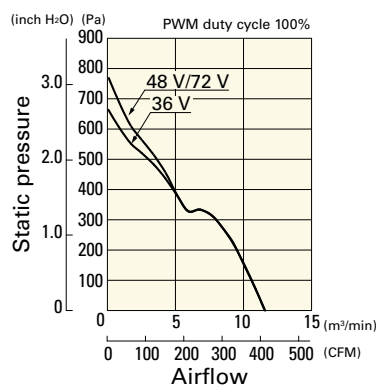


**9SG5748P5H01** With pulse sensor with PWM control function

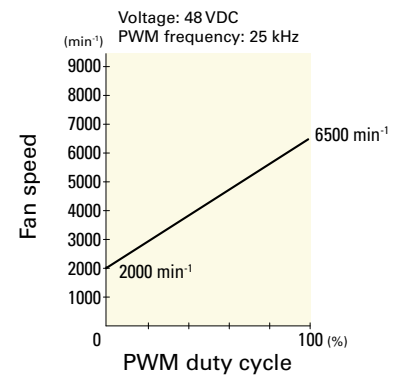
PWM duty cycle



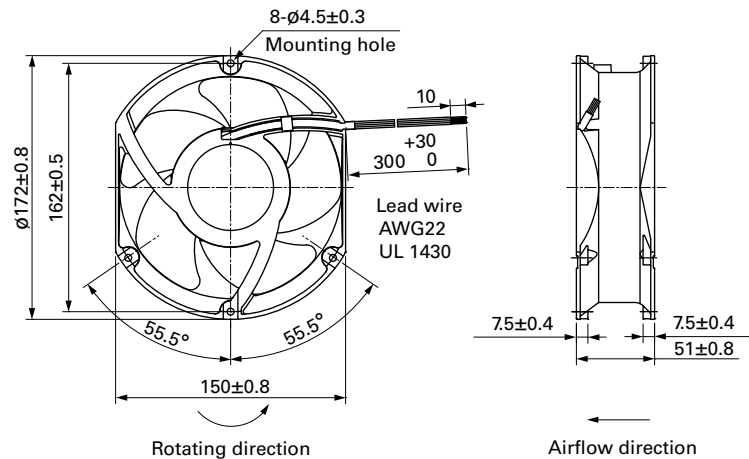
Operating voltage range



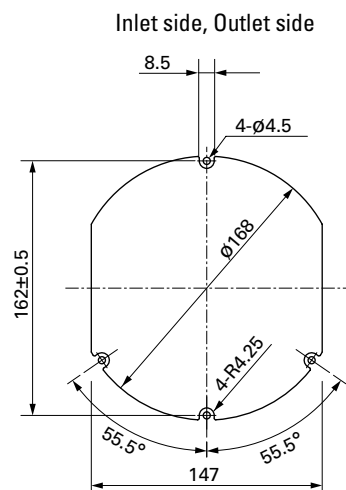
PWM duty - Speed characteristics example



## Dimensions (unit: mm)



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



## Options

### Finger guards

page: p. 560

Model no.: 109-319J, 109-319E, 109-319H, 109-320