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# 120×120×25 mm

San Ace 120 9S type Silent Fan 



## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), 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. 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 ..... -30 to +70°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black Sensor Yellow
- Mass ..... 140 g

## Specifications

The models listed below **have ribs and a pulse sensor**. For models without ribs, append "1" to the end of model numbers.

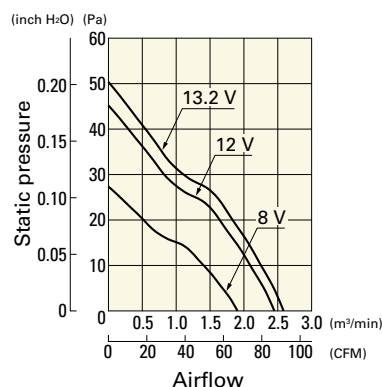
| Model no.  | Rated voltage<br>[V] | Operating voltage range<br>[V] | Rated current<br>[A] | Rated input<br>[W] | Rated speed<br>[min <sup>-1</sup> ] | Max. airflow<br>[m <sup>3</sup> /min] [CFM] | Max. static pressure<br>[Pa] [inchH <sub>2</sub> O] | SPL<br>[dB (A)] | Operating temperature<br>[°C] | Expected life<br>[h]       |
|------------|----------------------|--------------------------------|----------------------|--------------------|-------------------------------------|---------------------------------------------|-----------------------------------------------------|-----------------|-------------------------------|----------------------------|
| 9S1212H401 | 12                   | 8 to 13.2                      | 0.39                 | 4.68               | 2700                                | 2.45 86.5                                   | 45.2 0.18                                           | 36              | -10 to +60                    | 40000/60°C<br>(70000/40°C) |
| 9S1212F401 |                      |                                | 0.19                 | 2.28               | 2200                                | 2.0 70.6                                    | 30.0 0.12                                           | 30              |                               |                            |
| 9S1212M401 |                      | 8 to 13.8                      | 0.13                 | 1.56               | 1850                                | 1.66 58.6                                   | 22.7 0.09                                           | 24              |                               |                            |
| 9S1212L401 |                      |                                | 0.08                 | 0.96               | 1500                                | 1.36 48.1                                   | 14.9 0.06                                           | 17              |                               |                            |
| 9S1224M401 | 24                   | 14 to 26.4                     | 0.06                 | 1.44               | 1850                                | 1.66 58.6                                   | 22.7 0.09                                           | 24              | -10 to +70                    |                            |

Note: Sensor and control options are available for selection. Refer to the table on p. 659.

## Airflow - Static Pressure Characteristics

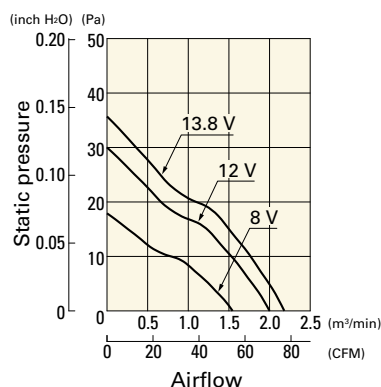
9S1212H401 With pulse sensor

Operating voltage range



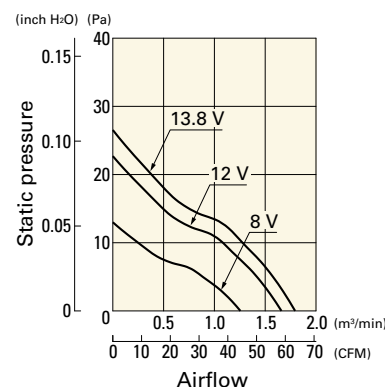
9S1212F401 With pulse sensor

Operating voltage range



9S1212M401 With pulse sensor

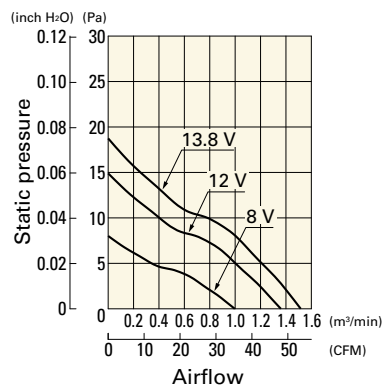
Operating voltage range



## Airflow - Static Pressure Characteristics

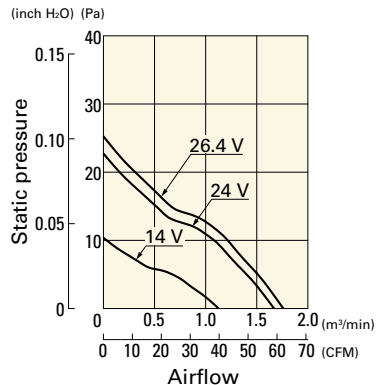
### 9S1212L401 With pulse sensor

Operating voltage range

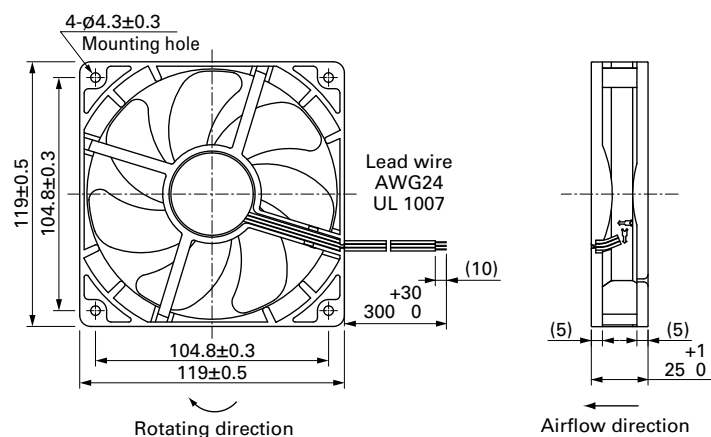


### 9S1224M401 With pulse sensor

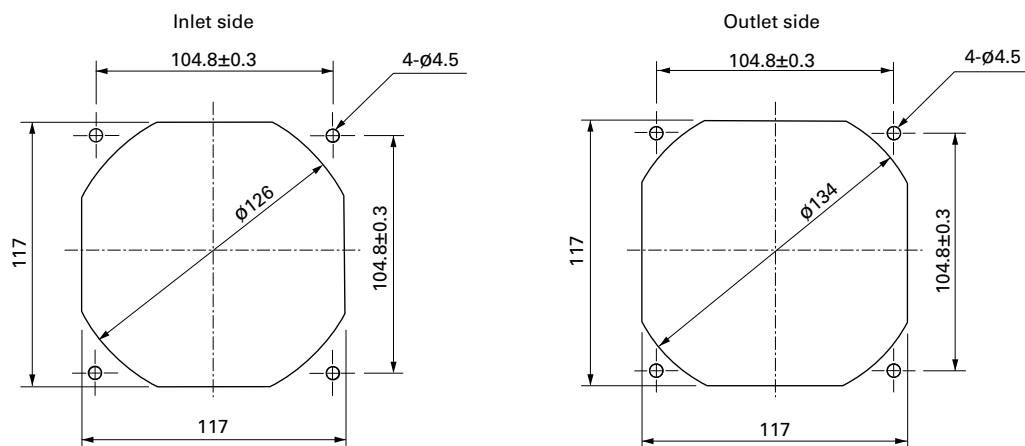
Operating voltage range



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



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



## Options

### Finger guards

page: p. 599

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

### Resin finger guards

page: p. 605

Model no.: 109-1000G

### Resin filter kits

page: p. 606

Model no.: 109-1000F13 (13PPI), 109-1000F20 (20PPI),  
109-1000F30 (30PPI), 109-1000F40 (40PPI)