

# 80×80×25 mm

San Cooler 80 9A type



## 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 or Blue (Sensor) Yellow
- Mass ..... 90 g

## Specifications

The models listed below **have ribs and pulse sensors**. 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>[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] |
|------------|----------------------|--------------------------------|----------------------|--------------------|-------------------------------------|--------------------------------|------|-----------------------------------------------------|-------|-----------------|-------------------------------|----------------------|
| 9A0812G401 | 12                   | 6 to 13.2                      | 0.38                 | 4.56               | 4500                                | 1.5                            | 53.0 | 80.3                                                | 0.323 | 40              | -20 to +60                    | 30000/60°C           |
| 9A0812S401 |                      | 6 to 13.8                      | 0.18                 | 2.16               | 3400                                | 1.2                            | 42.4 | 48                                                  | 0.193 | 34              | -20 to +70                    | 40000/60°C           |
| 9A0812H401 |                      |                                | 0.13                 | 1.56               | 2900                                | 1.03                           | 36.4 | 35.3                                                | 0.142 | 29              |                               |                      |
| 9A0812F401 |                      |                                | 0.11                 | 1.32               | 2600                                | 0.92                           | 32.5 | 28.4                                                | 0.114 | 26              |                               |                      |
| 9A0812M401 |                      |                                | 0.09                 | 1.08               | 2350                                | 0.83                           | 29.3 | 22.5                                                | 0.09  | 23              |                               |                      |
| 9A0812L401 |                      | 7 to 13.8                      | 0.06                 | 0.72               | 1850                                | 0.65                           | 23.0 | 14.7                                                | 0.059 | 20              |                               |                      |
| 9A0824G401 | 24                   | 12 to 26.4                     | 0.21                 | 5.04               | 4500                                | 1.5                            | 53.0 | 80.3                                                | 0.323 | 40              | -20 to +60                    | 30000/60°C           |
| 9A0824S401 |                      | 12 to 27.6                     | 0.1                  | 2.4                | 3400                                | 1.2                            | 42.4 | 48                                                  | 0.193 | 34              | -20 to +70                    | 40000/60°C           |
| 9A0824H401 |                      |                                | 0.07                 | 1.68               | 2900                                | 1.03                           | 36.4 | 35.3                                                | 0.142 | 29              |                               |                      |
| 9A0824F401 |                      |                                | 0.06                 | 1.44               | 2600                                | 0.92                           | 32.5 | 28.4                                                | 0.114 | 26              |                               |                      |
| 9A0824M401 |                      |                                | 0.05                 | 1.2                | 2350                                | 0.83                           | 29.3 | 22.5                                                | 0.09  | 23              |                               |                      |
| 9A0824L401 |                      | 14 to 27.6                     | 0.04                 | 0.96               | 1850                                | 0.65                           | 23.0 | 14.7                                                | 0.059 | 20              |                               |                      |

The following sensor and control options are available for selection.

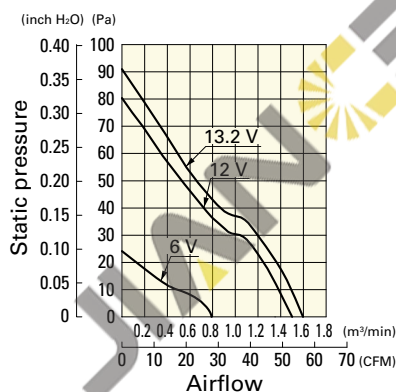
Available for all models. **Without sensor** **Lock sensor**

Differs according to the model. Refer to the table on pp. 565 to 566. **PWM control**

## Airflow - Static Pressure Characteristics

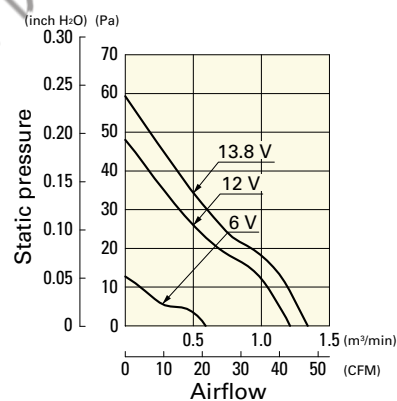
9A0812G401 With pulse sensor

Operating voltage range



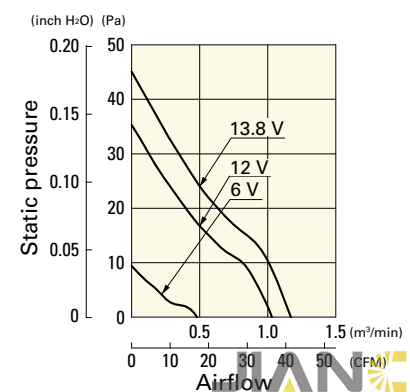
9A0812S401 With pulse sensor

Operating voltage range



9A0812H401 With pulse sensor

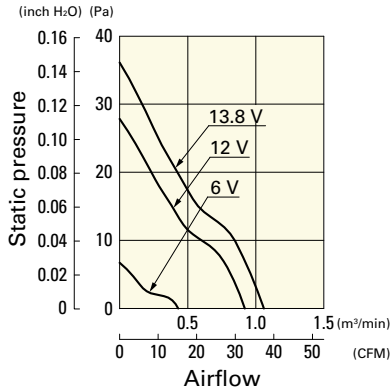
Operating voltage range



## Airflow - Static Pressure Characteristics

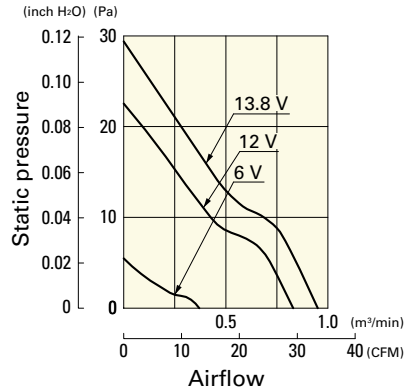
**9A0812F401** With pulse sensor

Operating voltage range



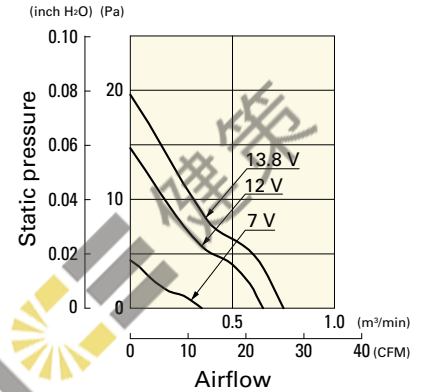
**9A0812M401** With pulse sensor

Operating voltage range



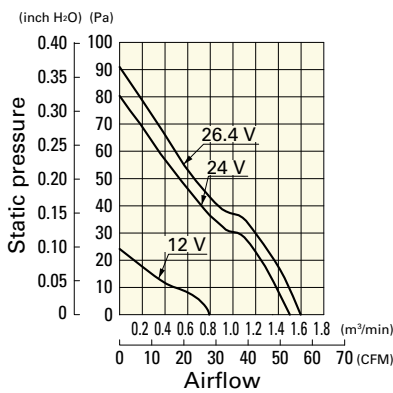
**9A0812L401** With pulse sensor

Operating voltage range



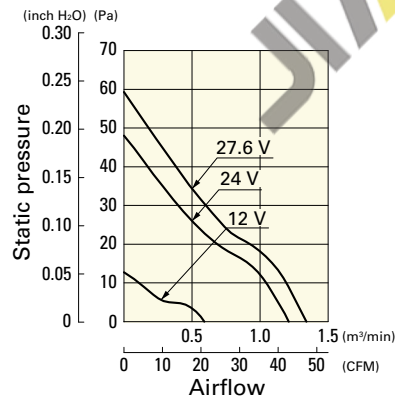
**9A0824G401** With pulse sensor

Operating voltage range



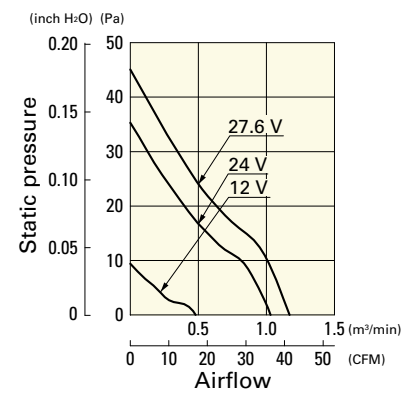
**9A0824S401** With pulse sensor

Operating voltage range



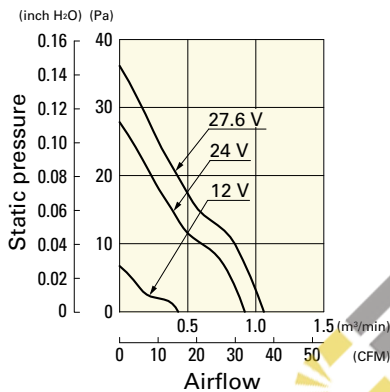
**9A0824H401** With pulse sensor

Operating voltage range



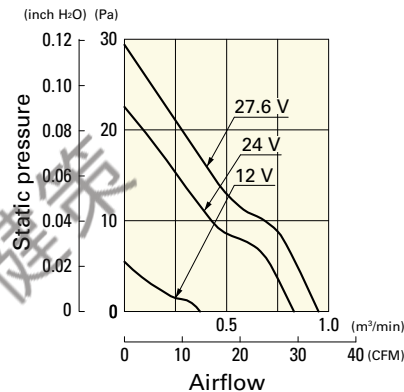
**9A0824F401** With pulse sensor

Operating voltage range



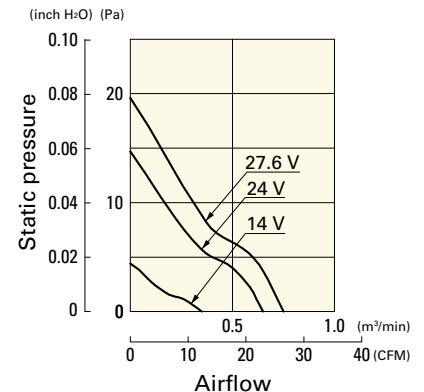
**9A0824M401** With pulse sensor

Operating voltage range



**9A0824L401** With pulse sensor

Operating voltage range



DC

DC Fan 80 mm sq.

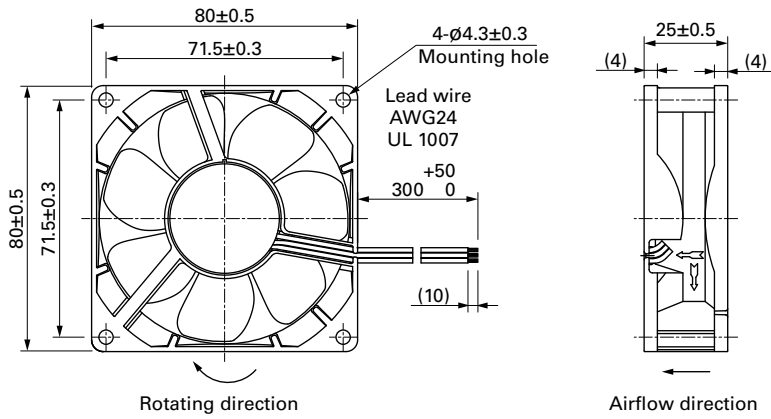
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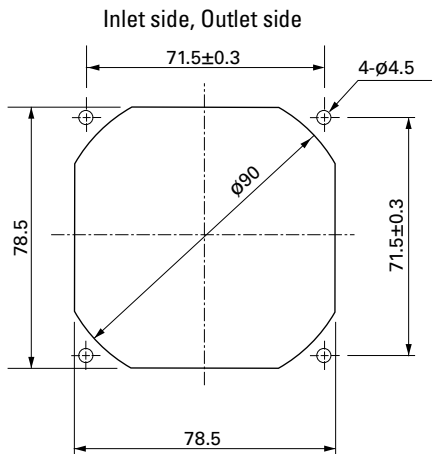
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## ■ Dimensions (unit: mm) (With ribs)



## ■ 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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[9A0812H4021](#) [9A0812H4011](#) [9A0812S4011](#) [9A0812G401](#) [9A0824H401](#) [9A0824S401](#) [9A0812H401](#) [9A0824G4011](#)  
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