

# 80×80×25 mm

**San Ace 80 9R type**    Model 109R0812E401 is not certified.



## 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)
- 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 ..... 110 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] |            |
|--------------|----------------------|--------------------------------|----------------------|--------------------|-------------------------------------|--------------------------------|------|-----------------------------------------------------|-------|-----------------|-------------------------------|----------------------|------------|
| 109R0805F401 | 5                    | 4.5 to 5.5                     | 0.25                 | 1.25               | 2600                                | 0.92                           | 32.5 | 28.4                                                | 0.114 | 26              | -20 to +70                    | 60000/60°C           |            |
| 109R0805M401 |                      |                                | 0.17                 | 0.85               | 2350                                | 0.83                           | 29.3 | 22.5                                                | 0.09  | 23              |                               |                      |            |
| 109R0812G401 | 12                   | 10.8 to 13.2                   | 0.37                 | 4.44               | 4500                                | 1.5                            | 53.0 | 80.4                                                | 0.323 | 40              | -20 to +60                    | 40000/60°C           |            |
| 109R0812E401 |                      | 6 to 13.8                      | 0.24                 | 2.88               | 3700                                | 1.31                           | 46.3 | 57.8                                                | 0.232 | 35              |                               |                      |            |
| 109R0812S401 |                      |                                | 0.18                 | 2.16               | 3400                                | 1.2                            | 42.4 | 48.0                                                | 0.193 | 34              | -20 to +70                    | 60000/60°C           |            |
| 109R0812H401 |                      |                                | 0.13                 | 1.56               | 2900                                | 1.03                           | 36.4 | 35.3                                                | 0.142 | 29              |                               |                      |            |
| 109R0812F401 |                      |                                | 0.11                 | 1.32               | 2600                                | 0.92                           | 32.5 | 28.4                                                | 0.114 | 26              |                               |                      |            |
| 109R0812M401 |                      |                                | 0.09                 | 1.08               | 2350                                | 0.83                           | 29.3 | 22.5                                                | 0.09  | 23              |                               |                      |            |
| 109R0812L401 |                      |                                | 7 to 13.8            | 0.06               | 0.72                                | 1850                           | 0.65 | 23.0                                                | 14.7  | 0.059           | 20                            |                      |            |
| 109R0824G401 |                      | 24                             | 20.4 to 26.4         | 0.2                | 4.8                                 | 4500                           | 1.5  | 53.0                                                | 80.4  | 0.323           | 40                            | -20 to +60           | 40000/60°C |
| 109R0824S401 |                      |                                | 12 to 27.6           | 0.1                | 2.4                                 | 3400                           | 1.2  | 42.4                                                | 48.0  | 0.193           | 34                            | -20 to +70           | 60000/60°C |
| 109R0824H401 | 0.07                 |                                |                      | 1.68               | 2900                                | 1.03                           | 36.4 | 35.3                                                | 0.142 | 29              |                               |                      |            |
| 109R0824F401 | 0.06                 |                                |                      | 1.44               | 2600                                | 0.92                           | 32.5 | 28.4                                                | 0.114 | 26              |                               |                      |            |
| 109R0824M401 | 0.05                 |                                |                      | 1.2                | 2350                                | 0.83                           | 29.3 | 22.5                                                | 0.09  | 23              |                               |                      |            |
| 109R0824L401 | 14 to 27.6           |                                | 0.04                 | 0.96               | 1850                                | 0.65                           | 23.0 | 14.7                                                | 0.059 | 20              |                               |                      |            |
| 109R0848K401 | 48                   | 40.8 to 55.2                   | 0.1                  | 4.8                | 4600                                | 1.56                           | 55.1 | 88.4                                                | 0.355 | 41              | -20 to +60                    | 40000/60°C           |            |
| 109R0848S401 |                      |                                | 0.06                 | 2.88               | 3400                                | 1.2                            | 42.4 | 48.0                                                | 0.193 | 34              | -20 to +70                    | 60000/60°C           |            |

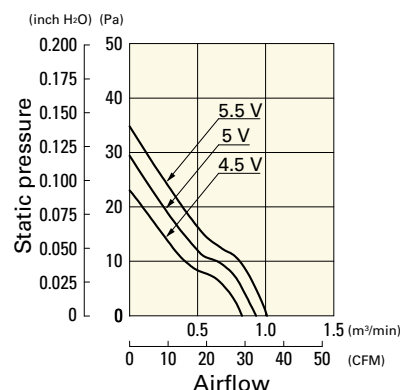
The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on pp. 564 to 565. **Without sensor** **Lock sensor**

## Airflow - Static Pressure Characteristics

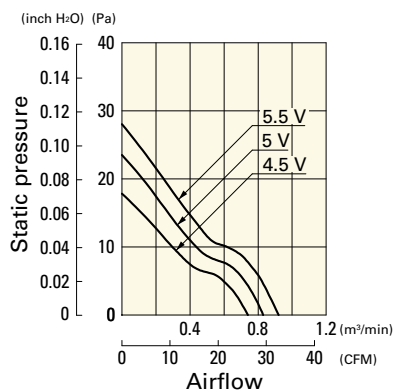
**109R0805F401** With pulse sensor

Operating voltage range



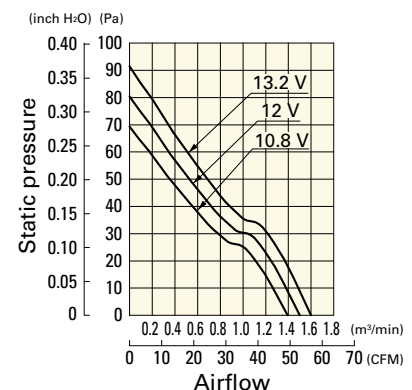
**109R0805M401** With pulse sensor

Operating voltage range



**109R0812G401** With pulse sensor

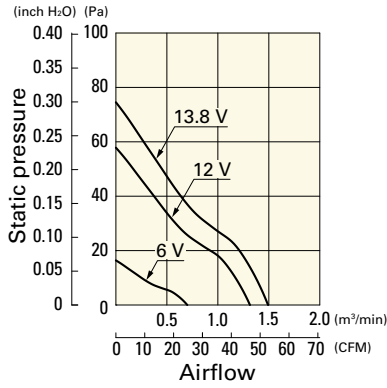
Operating voltage range



## Airflow - Static Pressure Characteristics

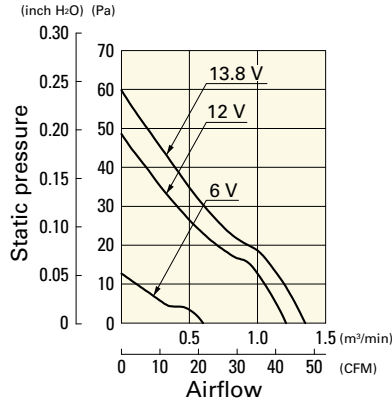
**109R0812E401** With pulse sensor

Operating voltage range



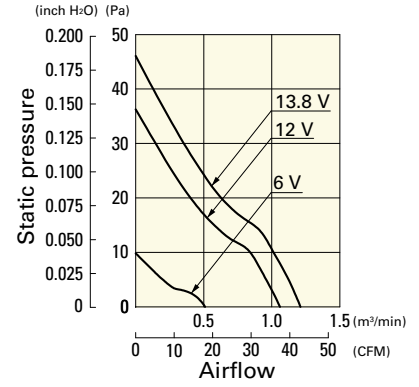
**109R0812S401** With pulse sensor

Operating voltage range



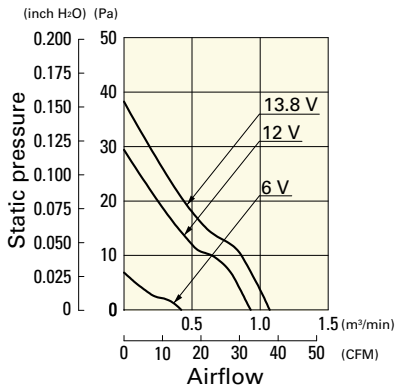
**109R0812H401** With pulse sensor

Operating voltage range



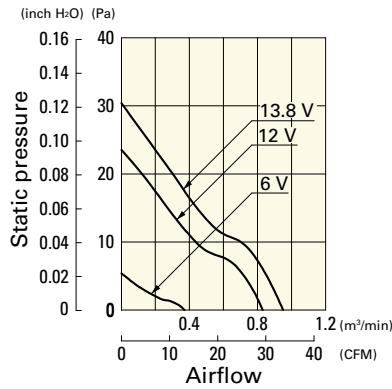
**109R0812F401** With pulse sensor

Operating voltage range



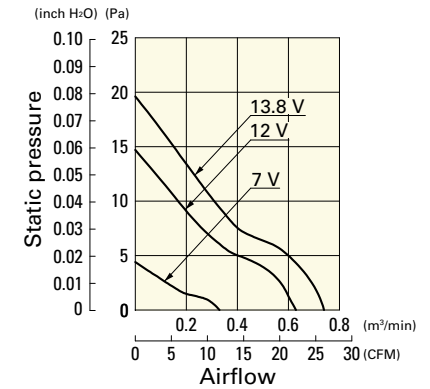
**109R0812M401** With pulse sensor

Operating voltage range



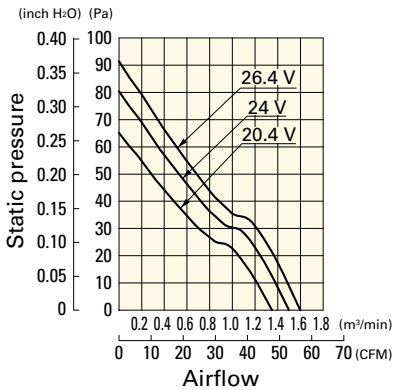
**109R0812L401** With pulse sensor

Operating voltage range



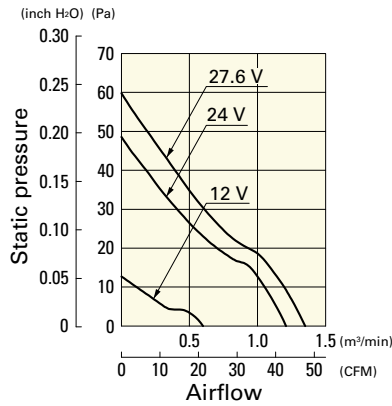
**109R0824G401** With pulse sensor

Operating voltage range



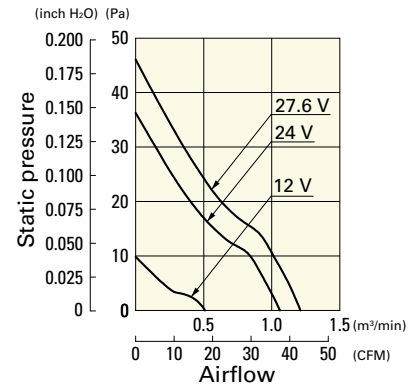
**109R0824S401** With pulse sensor

Operating voltage range



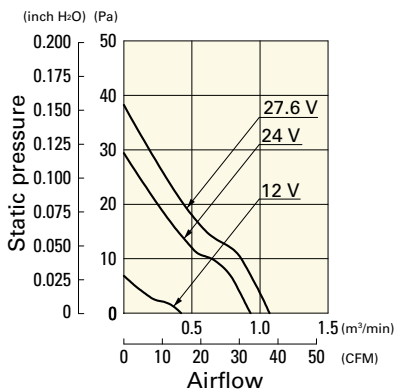
**109R0824H401** With pulse sensor

Operating voltage range



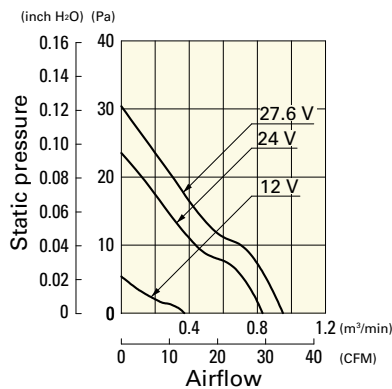
**109R0824F401** With pulse sensor

Operating voltage range



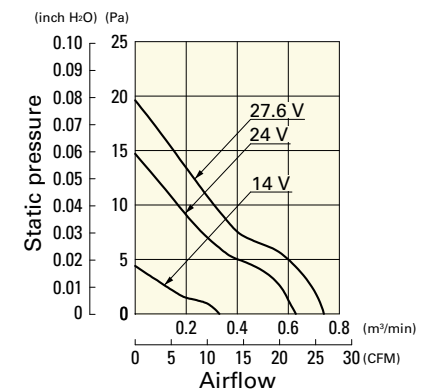
**109R0824M401** With pulse sensor

Operating voltage range



**109R0824L401** With pulse sensor

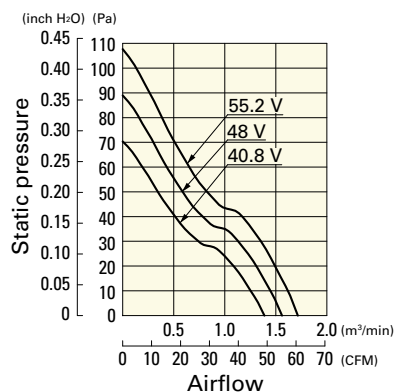
Operating voltage range



## Airflow - Static Pressure Characteristics

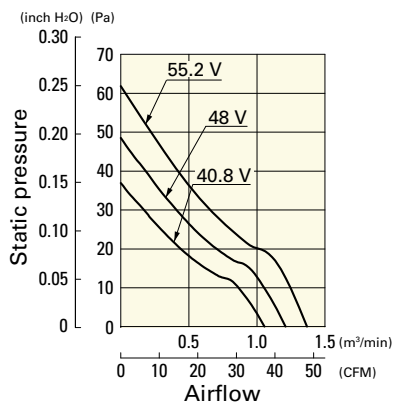
**109R0848K401** With pulse sensor

Operating voltage range

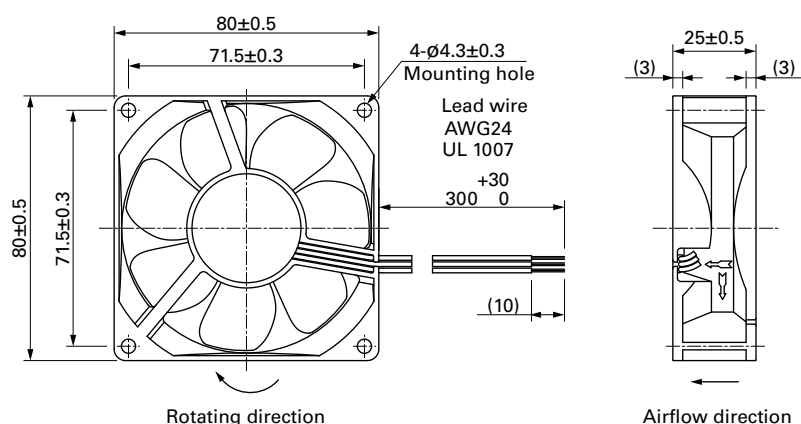


**109R0848S401** With pulse sensor

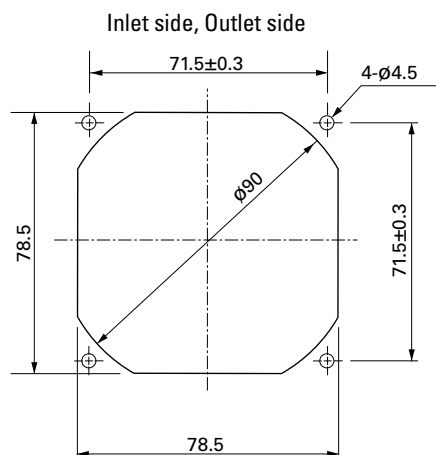
Operating voltage range



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



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



## Options

### Finger guards

page: p. 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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