

# 40×40×15 mm

## San Ace 40 9P<sub>type</sub>



### 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. 599.
- 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 ..... 32 g

### Specifications

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 <sup>-1</sup> ] | Max. airflow [m <sup>3</sup> /min] [CFM] | Max. static pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h]          |
|----------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------|
| » 109P0405H701 | 5                 | 4.5 to 5.5                  | 0.28              | 1.4             | 7700                             | 0.18 6.4                                 | 75.5 0.303                                       | 28           | -20 to +60                 | 60000/60°C<br>(90000/40°C) |
| » 109P0405M701 |                   |                             | 0.21              | 1.05            | 6500                             | 0.15 5.3                                 | 52.9 0.213                                       | 24           |                            |                            |
| » 109P0412R701 | 12                | 7 to 13.8                   | 0.13              | 1.56            | 9700                             | 0.227 8.0                                | 111.9 0.449                                      | 34           |                            | 40000/60°C<br>(70000/40°C) |
| » 109P0412S701 |                   | 10.2 to 13.8                | 0.18              | 2.16            | 8600                             | 0.2 7.06                                 | 92.1 0.369                                       | 32           |                            |                            |
| » 109P0412H701 |                   |                             | 0.13              | 1.56            | 7700                             | 0.18 6.4                                 | 75.5 0.303                                       | 28           |                            |                            |
| » 109P0412M701 |                   |                             | 0.095             | 1.14            | 6500                             | 0.15 5.3                                 | 52.9 0.213                                       | 24           |                            |                            |
| » 109P0424H701 | 24                | 20.4 to 27.6                | 0.08              | 1.92            | 7700                             | 0.18 6.4                                 | 75.5 0.303                                       | 28           |                            | 60000/60°C<br>(90000/40°C) |

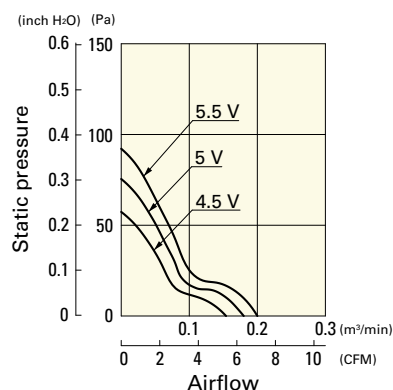
Note 1: Sensor and control options are available for selection. Refer to the table on pp. 621 to 622.

Note 2: The » mark indicates Short Lead Time Service applicable models. See p. 654 for details.

### Airflow - Static Pressure Characteristics

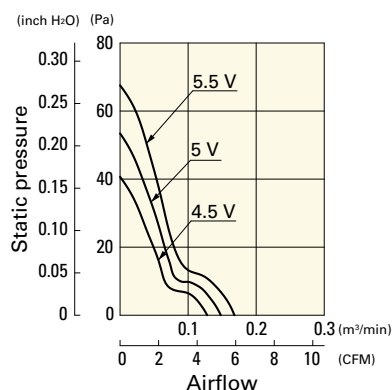
109P0405H701 With pulse sensor

Operating voltage range



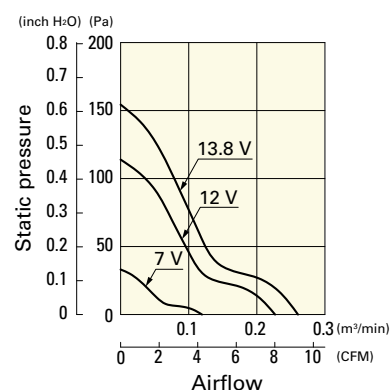
109P0405M701 With pulse sensor

Operating voltage range



109P0412R701 With pulse sensor

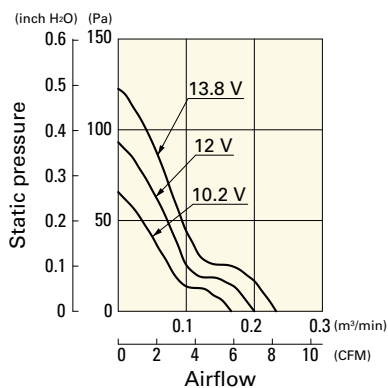
Operating voltage range



## Airflow - Static Pressure Characteristics

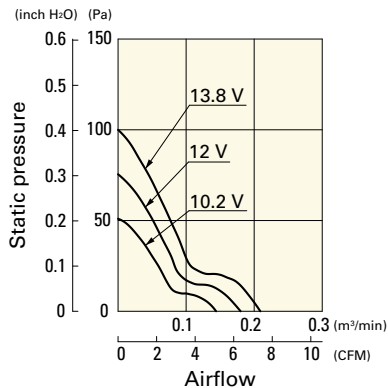
**109P0412S701** With pulse sensor

Operating voltage range



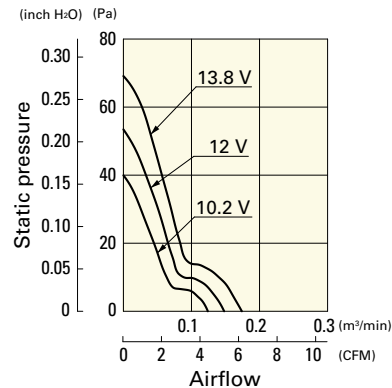
**109P0412H701** With pulse sensor

Operating voltage range



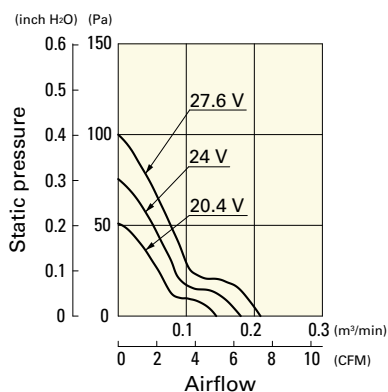
**109P0412M701** With pulse sensor

Operating voltage range

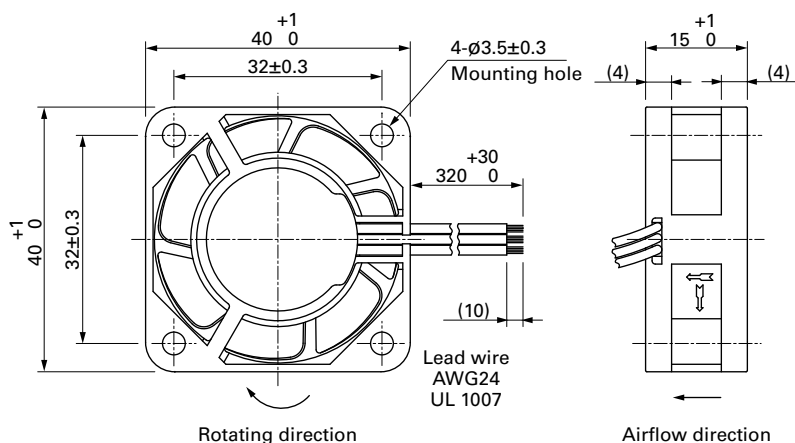


**109P0424H701** With pulse sensor

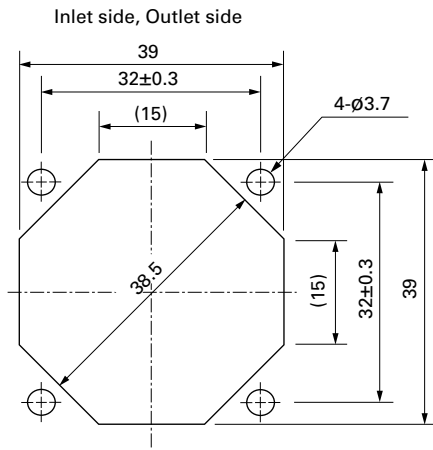
Operating voltage range



## Dimensions (unit: mm)



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



## Options

Finger guards

page: p. 584

Model no.: 109-059, 109-059H