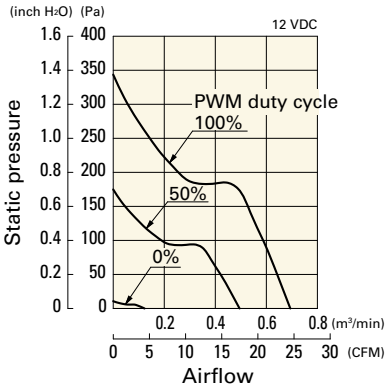
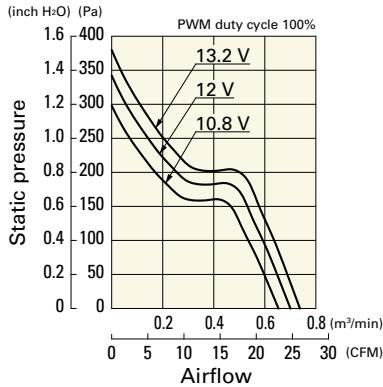


9GE0412P3J03 With pulse sensor with PWM control

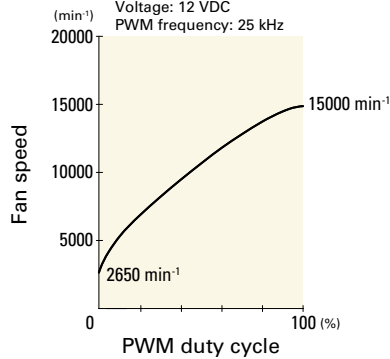
PWM duty cycle



Operating voltage range

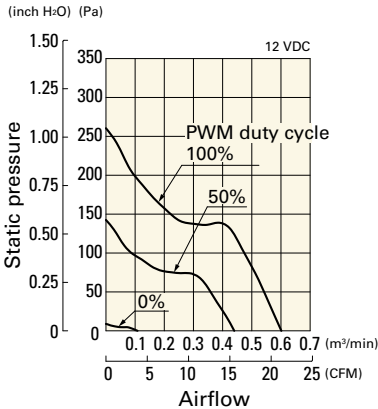


PWM duty - Speed characteristics example

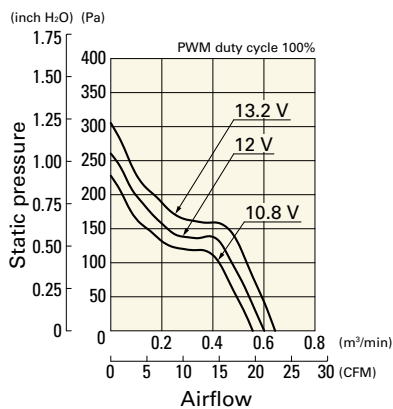


9GE0412P3G03 With pulse sensor with PWM control

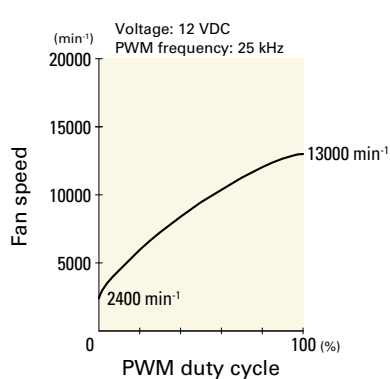
PWM duty cycle



Operating voltage range

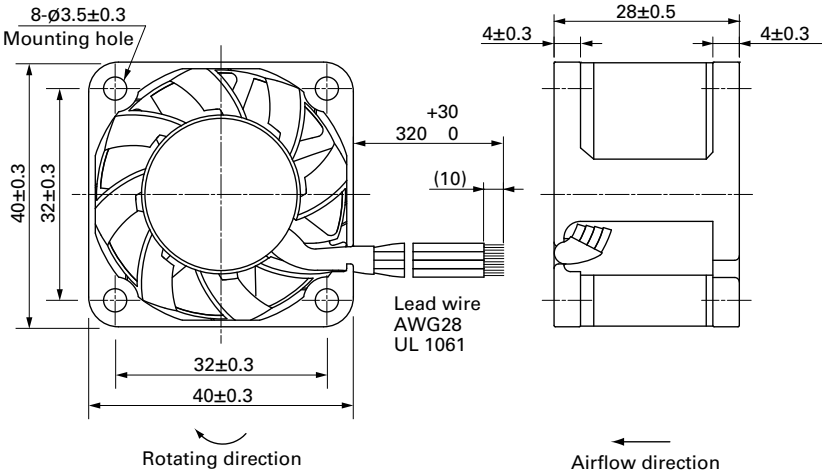


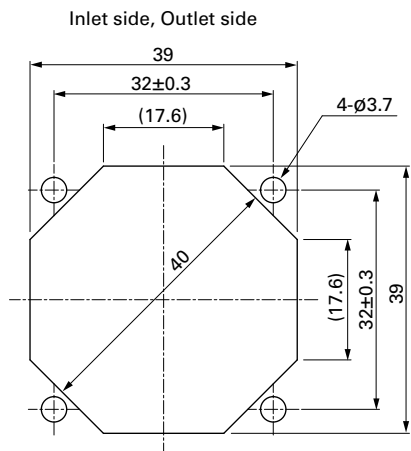
PWM duty - Speed characteristics example



Dimensions (unit: mm)

Screw-mount the fan through both flanges.





## Options

Finger guards

page: p. 598

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

# 40×40×28 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. 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 or Blue Sensor Yellow
- Mass ..... 52 g

## Specifications

The models listed below **have ribs and a pulse sensor.**

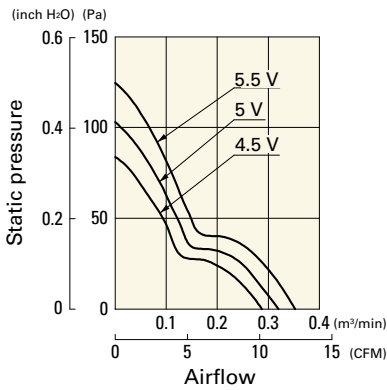
| Model no.     | Rated voltage [V] | Operating voltage range [V] | Rated current [A] | Rated input [W] | Rated speed [min <sup>-1</sup> ] | Max. airflow |      | Max. static pressure |       | SPL [dB (A)] | Operating temperature [°C] | Expected life [h]          |
|---------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|--------------|------|----------------------|-------|--------------|----------------------------|----------------------------|
| 109P0405H3013 | 5                 | 4.5 to 5.5                  | 0.68              | 3.4             | 8700                             | 0.32         | 11.3 | 102.9                | 0.414 | 37           | -20 to +70                 | 40000/60°C<br>(70000/40°C) |
| 109P0405F3013 |                   |                             | 0.28              | 1.4             | 6700                             | 0.244        | 8.6  | 58.8                 | 0.236 | 30           |                            | 60000/60°C<br>(90000/40°C) |
| 109P0412G3013 | 12                | 7 to 13.2                   | 0.31              | 3.72            | 11500                            | 0.42         | 14.8 | 179                  | 0.719 | 42           | -20 to +60                 | 40000/60°C<br>(70000/40°C) |
| 109P0412B3013 |                   | 7 to 13.8                   | 0.28              | 3.36            | 10300                            | 0.38         | 13.4 | 143                  | 0.574 | 40           |                            | 60000/60°C<br>(90000/40°C) |
| 109P0412H3013 |                   |                             | 0.195             | 2.34            | 8700                             | 0.32         | 11.3 | 102.9                | 0.414 | 37           | -20 to +70                 | 60000/60°C<br>(90000/40°C) |
| 109P0412F3013 |                   |                             | 0.105             | 1.26            | 6700                             | 0.244        | 8.6  | 58.8                 | 0.236 | 30           |                            |                            |
| 109P0412M3013 |                   |                             | 0.045             | 0.54            | 4100                             | 0.15         | 5.3  | 21.6                 | 0.087 | 20           | -20 to +60                 | 40000/60°C<br>(70000/40°C) |
| 109P0424G3013 |                   | 12 to 26.4                  | 0.19              | 4.56            | 11500                            | 0.42         | 14.8 | 179                  | 0.719 | 42           |                            | 60000/60°C<br>(90000/40°C) |
| 109P0424B3013 | 24                | 12 to 27.6                  | 0.13              | 3.12            | 10300                            | 0.38         | 13.4 | 143                  | 0.574 | 40           | -20 to +70                 | 40000/60°C<br>(70000/40°C) |
| 109P0424H3013 |                   |                             | 0.095             | 2.28            | 8700                             | 0.32         | 11.3 | 102.9                | 0.414 | 37           |                            | 60000/60°C<br>(90000/40°C) |
| 109P0424F3013 |                   | 14 to 27.6                  | 0.055             | 1.32            | 6700                             | 0.244        | 8.6  | 58.8                 | 0.236 | 30           |                            |                            |

Note: Sensor and control options are available for selection. Refer to the table on p. 645.

## Airflow - Static Pressure Characteristics

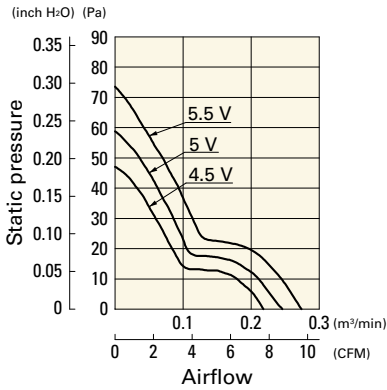
### 109P0405H3013 With pulse sensor

Operating voltage range



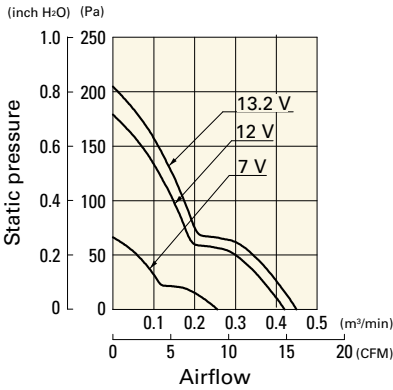
### 109P0405F3013 With pulse sensor

Operating voltage range



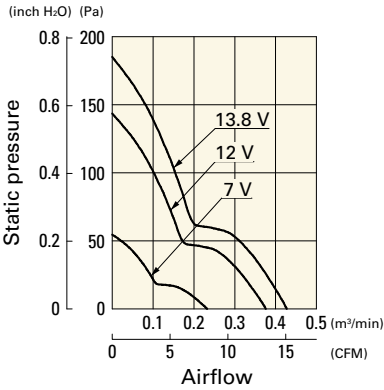
### 109P0412G3013 With pulse sensor

Operating voltage range



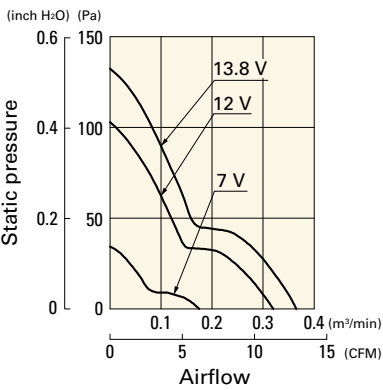
109P0412B3013 With pulse sensor

Operating voltage range



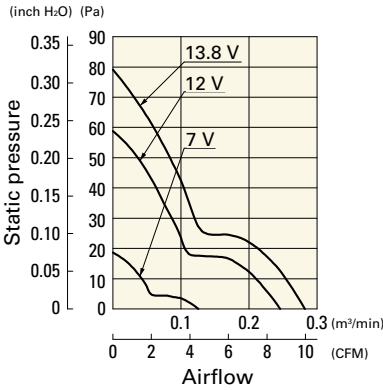
109P0412H3013 With pulse sensor

Operating voltage range



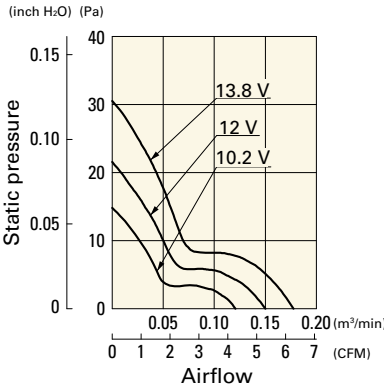
109P0412F3013 With pulse sensor

Operating voltage range



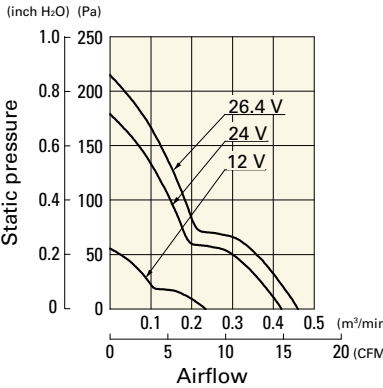
109P0412M3013 With pulse sensor

Operating voltage range



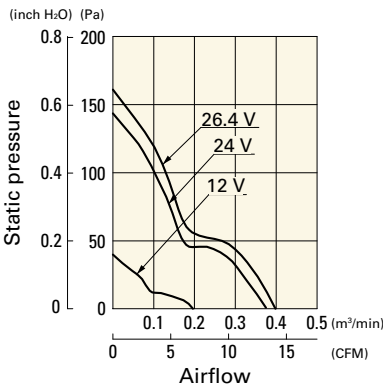
109P0424G3013 With pulse sensor

Operating voltage range



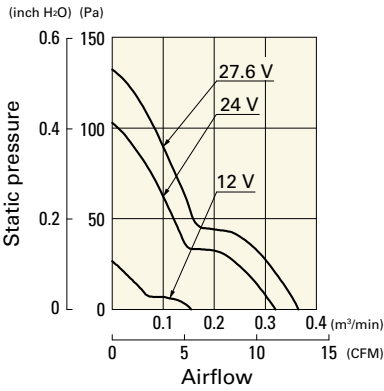
109P0424B3013 With pulse sensor

Operating voltage range



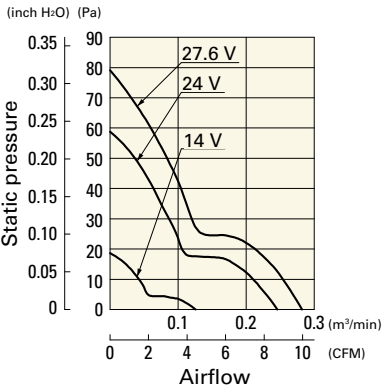
109P0424H3013 With pulse sensor

Operating voltage range

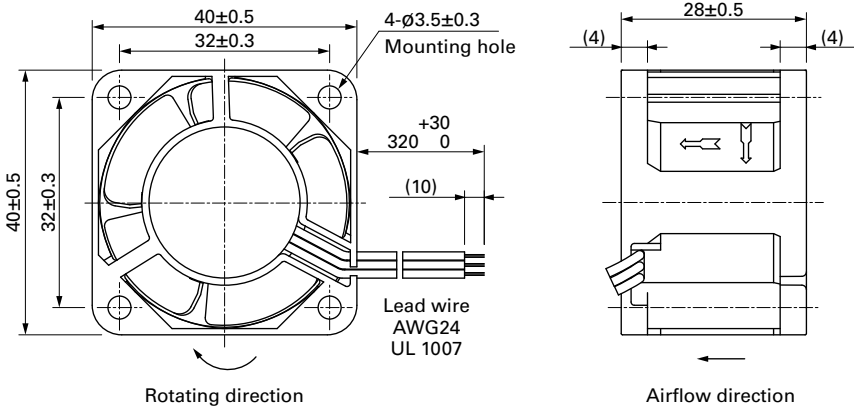


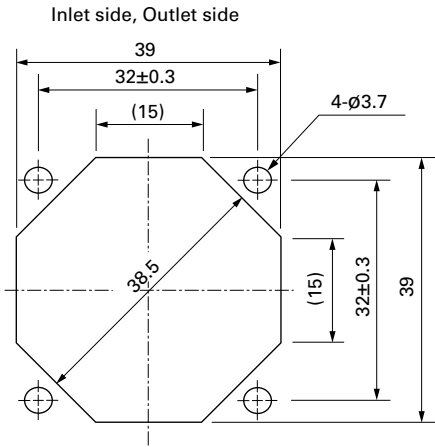
109P0424F3013 With pulse sensor

Operating voltage range



Dimensions (unit: mm)





Options

Finger guards

page: p. 598

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