

# 40×40×15 mm


**San Ace 40 9GA type** Low Power Consumption Fan 

## 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)  
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. 608.
- 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 Control Brown  
(For models without PWM control, there is no speed control wiring.)
- Mass ..... 28 g

## Specifications

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

| Model no.              | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle [%] | 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]          |
|------------------------|-------------------|-----------------------------|--------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|----------------------------|
| <b>9GA0405P7C001</b>   | 5                 | 4.75 to 5.25                | 100                | 0.16              | 0.8             | 8800                             | 0.24 8.5                                 | 86 0.35  | 33           | -20 to +70                 | 60000/60°C<br>(90000/40°C) |
|                        |                   |                             | 30                 | 0.03              | 0.15            | 1250                             | 0.03 1.1                                 | 1.7 0.007  | 10           |                            | 40000/60°C<br>(70000/40°C) |
| » <b>9GA0412P7G001</b> | 12                | 10.2 to 13.8                | 100                | 0.17              | 2.04            | 13100                            | 0.36 12.7                                | 192 0.77   | 42           |                            |                            |

\* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

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 [m <sup>3</sup> /min] [CFM] | Max. static pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h]          |
|-----------------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|----------------------------|
| » <b>9GA0412G7001</b> | 12                | 7 to 13.8                   | 0.17              | 2.04            | 13100                            | 0.36 12.7                                | 192 0.77   | 42           | -20 to +70                 | 40000/60°C<br>(70000/40°C) |
| » <b>9GA0412H7001</b> |                   |                             | 0.06              | 0.72            | 7300                             | 0.2 7.1                                  | 59.6 0.24  | 28           |                            |                            |
| <b>9GA0412L7001</b>   |                   |                             | 0.04              | 0.48            | 4400                             | 0.11 3.9                                 | 22.7 0.09  | 20           |                            |                            |

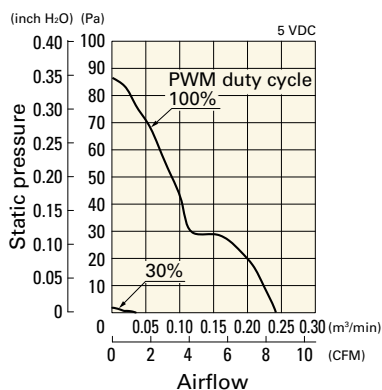
Note 1: Sensor and control options are available for selection. Refer to the table on pp. 637 to 638.

Note 2: The » mark indicates Short Lead Time Service applicable models. See p. 664 for details.

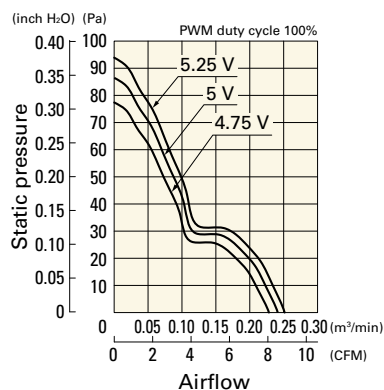
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0405P7C001** With pulse sensor with PWM control

PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example

