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**40**mm sq.

# San Ace 40



## General Specifications

- Material ..... Frame: Plastics (Flammability: UL94V-0),  
Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ..... Refer to specifications (L10: Survival rate: 90% at 60°C ,  
rated voltage, and continuously run in a free air state)
- Lead Wire ..... ⊕red ⊖black (Sensor) yellow (Control) brown
- Storage Temperature ..... -30°C to +70°C (Non-condensing)

**40×40×28mm** (Mass : 53g) **9GA type** **Low Power Consumption Fan**



## Specifications

The following nos. **have PWM controls, pulse sensors, and ribs.** For ribless, append "1" to the model no.

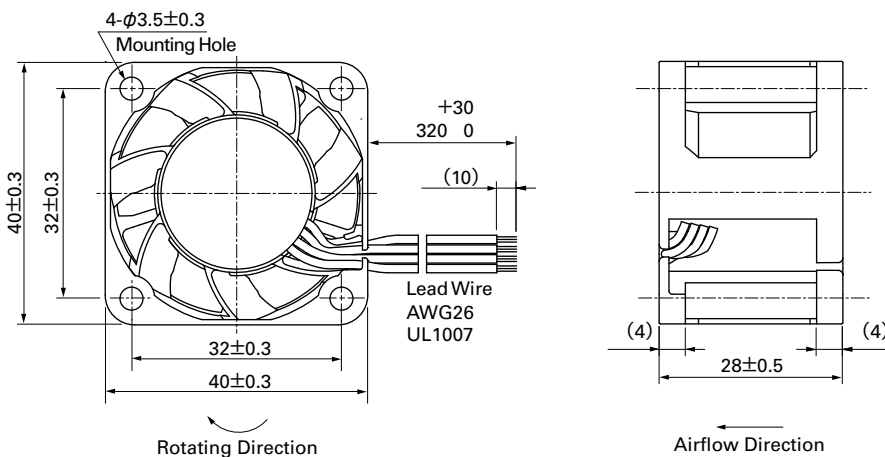
| Model No.                       | Rated Voltage [V] | Operating Voltage Range [V] | PWM duty cycle* [%] | Rated Current [A] | Rated Input [W] | Rated Speed [min <sup>-1</sup> ] | Max. Airflow [m <sup>3</sup> /min] [CFM] | Max. Static Pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB(A)] | Operating Temperature [°C] | Expected Life [h] |            |             |            |             |
|---------------------------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|-------------|----------------------------|-------------------|------------|-------------|------------|-------------|
| 9GA0412P3K01                    | 12                | 10.8 to 13.2                | 100                 | 0.92              | 11.04           | 22,000                           | 0.81 28.6                                | 799 3.21   | 61          | -20 to +60                 | 30,000/60°C       |            |             |            |             |
|                                 |                   |                             | 0                   | 0.10              | 1.2             | 6,500                            | 0.23 8.12                                | 68 0.27  | 32          |                            |                   |            |             |            |             |
| 9GA0412P3J01                    |                   |                             | 100                 | 0.49              | 5.88            | 18,000                           | 0.67 23.7                                | 535 2.15   | 54          |                            |                   | -20 to +70 | 40,000/60°C |            |             |
|                                 |                   |                             | 0                   | 0.05              | 0.6             | 4,500                            | 0.16 5.7                                 | 33 0.13  | 22          |                            |                   |            |             |            |             |
| 9GA0412P3G01                    |                   |                             | 100                 | 0.39              | 4.68            | 16,500                           | 0.61 21.5                                | 450 1.81   | 53          |                            |                   |            |             |            |             |
|                                 |                   |                             | 0                   | 0.05              | 0.6             | 4,500                            | 0.16 5.7                                 | 33 0.13  | 22          |                            |                   |            |             |            |             |
| 9GA0412P3H01                    |                   |                             | 100                 | 0.28              | 3.36            | 14,500                           | 0.54 19.1                                | 347 1.39   | 50          |                            |                   |            |             |            |             |
|                                 |                   |                             | 0                   | 0.04              | 0.48            | 3,500                            | 0.13 4.6                                 | 20 0.08  | 17          |                            |                   |            |             |            |             |
| 9GA0412P3M01                    |                   |                             | 100                 | 0.21              | 2.52            | 12,500                           | 0.46 16.2                                | 258 1.04   | 47          |                            |                   |            |             |            |             |
|                                 |                   |                             | 0                   | 0.04              | 0.48            | 3,500                            | 0.13 4.6                                 | 20 0.08  | 17          |                            |                   |            |             |            |             |
| 9GA0424P3J001 <sup>(Note)</sup> |                   |                             | 24                  | 21.6 to 26.4      | 100             | 0.27                             | 6.48                                     | 18,000   | 0.67 23.7   | 535 2.15                   | 54                |            |             | -20 to +70 | 40,000/60°C |
| 9GA0424P3G001 <sup>(Note)</sup> |                   |                             |                     |                   | 100             | 0.22                             | 5.28                                     | 16,500   | 0.61 21.5   | 450 1.81                   | 53                |            |             |            |             |
| 9GA0424P3H001 <sup>(Note)</sup> | 100               | 0.16                        |                     |                   | 3.84            | 14,500                           | 0.54 19.1                                | 347 1.39   | 50          |                            |                   |            |             |            |             |
| 9GA0424P3M001 <sup>(Note)</sup> | 100               | 0.11                        |                     |                   | 2.64            | 12,500                           | 0.46 16.2                                | 258 1.04   | 47          |                            |                   |            |             |            |             |
|                                 | 0                 | 0.04                        |                     |                   | 0.48            | 3,500                            | 0.13 4.6                                 | 20 0.08  | 17          |                            |                   |            |             |            |             |

Note: Rated voltage 24V fans do not rotate when PWM duty cycle is 0% .

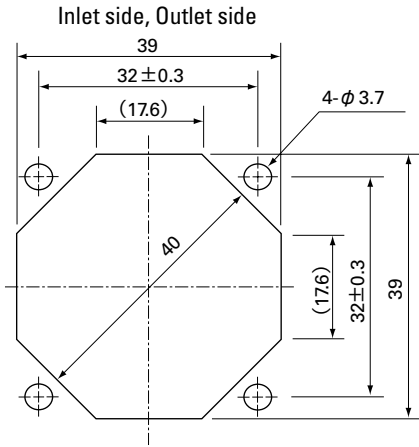
※PWM Frequency : 25kHz

Other sensor specifications are available as options. Please refer to the index (p. 504).

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



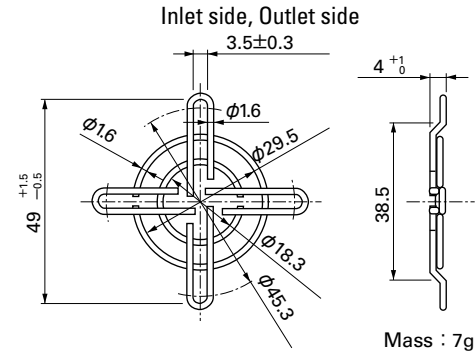
## Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



## Options (unit: mm)

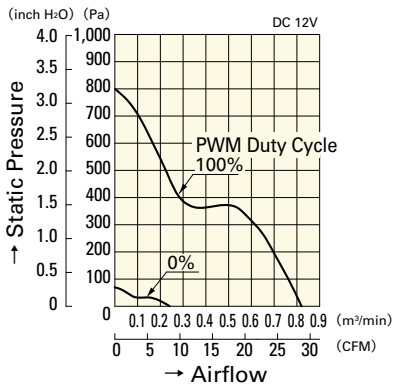
### Finger Guards

Model : 109-059 Surface treatment : Nickel-chrome plating (silver)  
 : 109-059H : Cation electropainting (black)

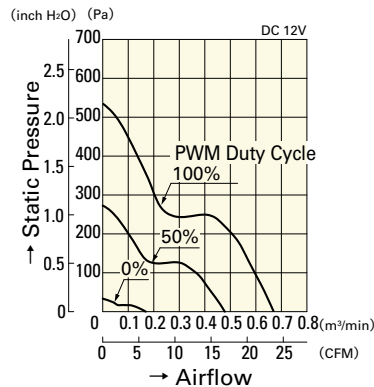


## Airflow - Static Pressure Characteristics

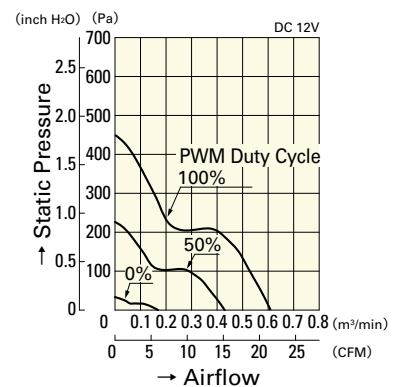
### PWM Duty Cycle



9GA0412P3K01

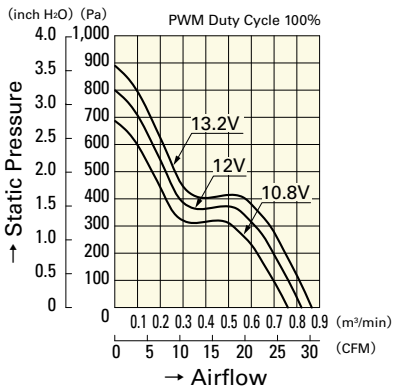


9GA0412P3J01

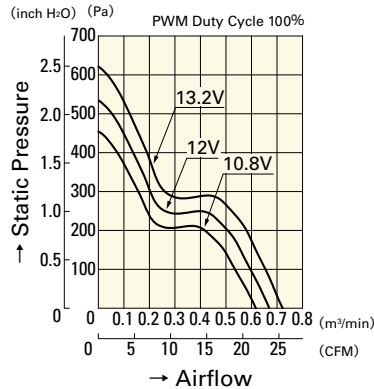


9GA0412P3G01

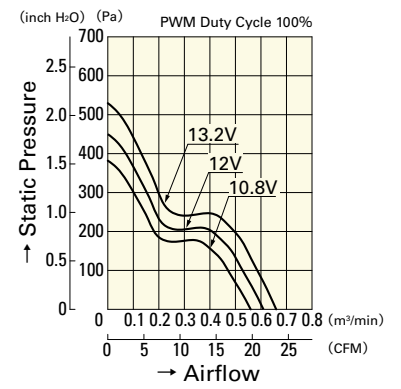
### Operating Voltage Range



9GA0412P3K01

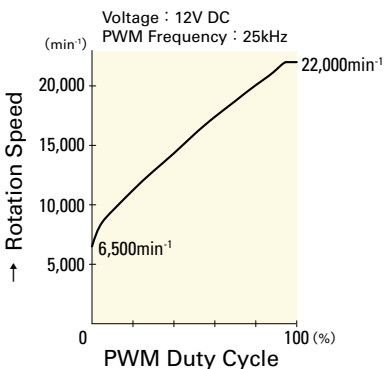


9GA0412P3J01

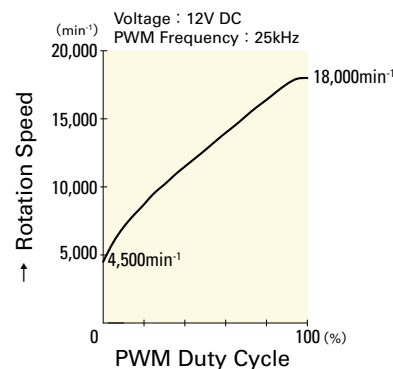


9GA0412P3G01

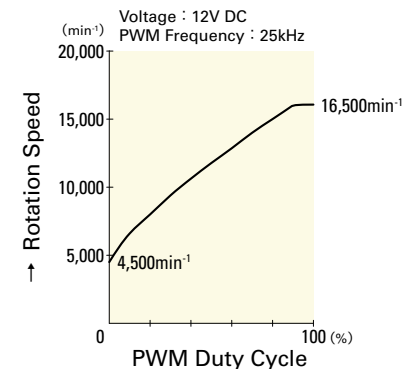
## PWM Duty - Speed Characteristics Example



9GA0412P3K01



9GA0412P3J01



9GA0412P3G01



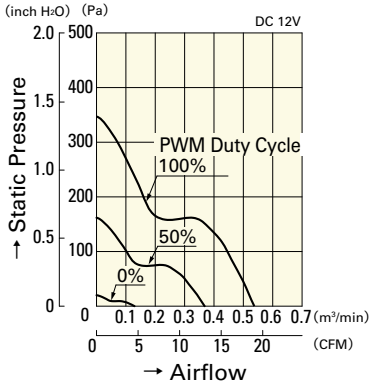
**40**mm sq.

**San Ace 40**

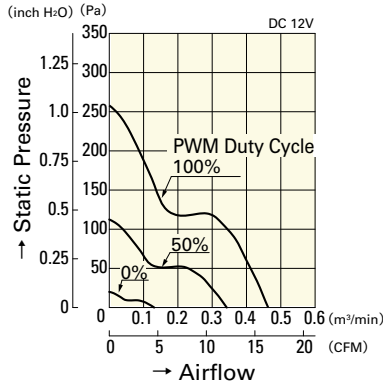
**40×40×28mm** [Mass : 53g]

**Airflow - Static Pressure Characteristics**

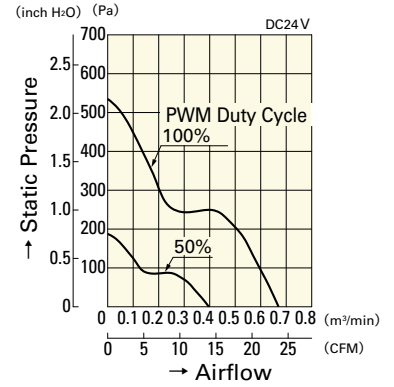
**PWM Duty Cycle**



**9GA0412P3H01**

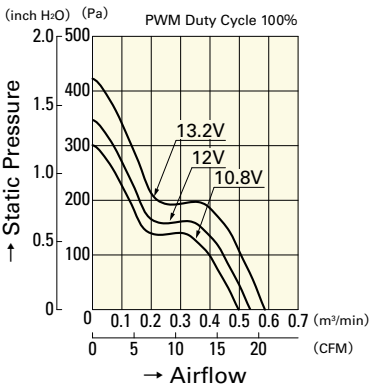


**9GA0412P3M01**

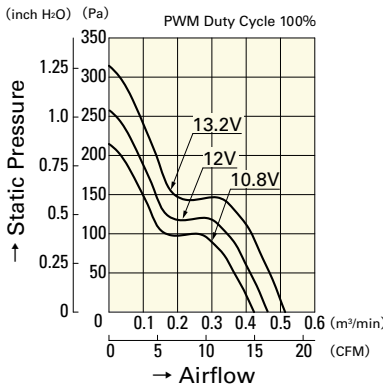


**9GA0424P3J001**

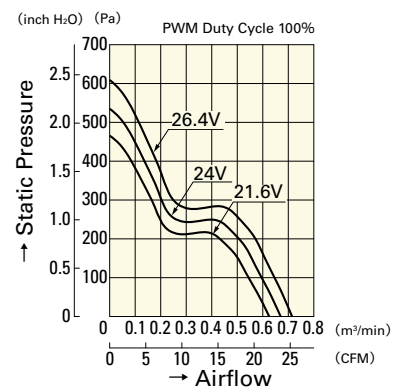
**Operating Voltage Range**



**9GA0412P3H01**

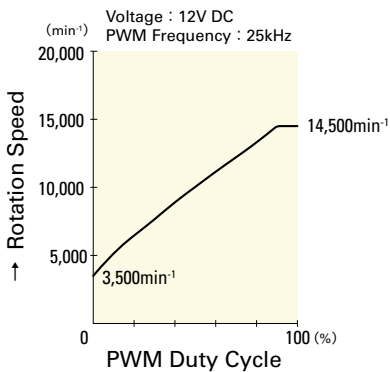


**9GA0412P3M01**

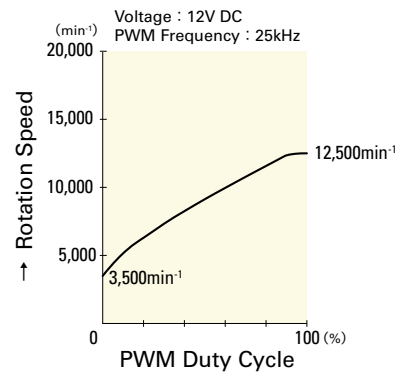


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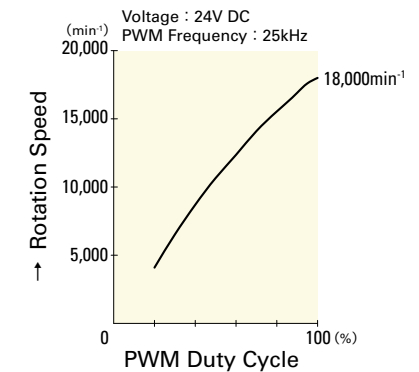
**PWM Duty - Speed Characteristics Example**



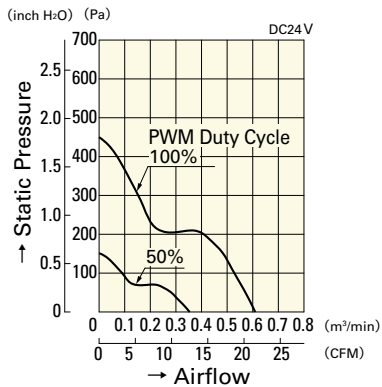
**9GA0412P3H01**



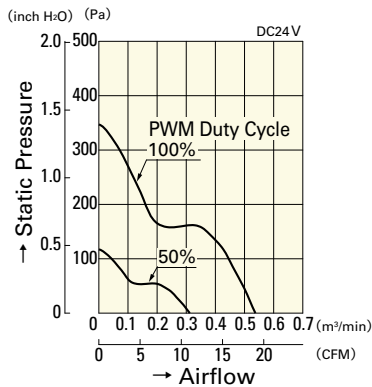
**9GA0412P3M01**



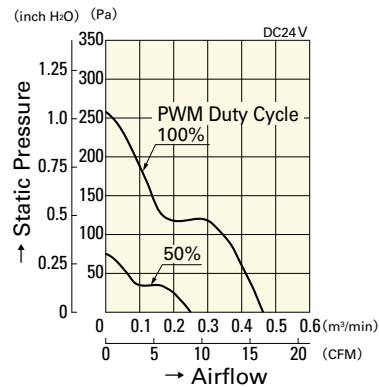
**9GA0424P3J001**



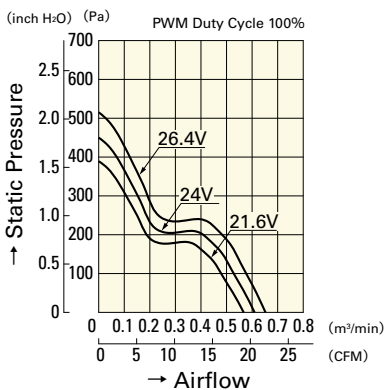
**9GA0424P3G001**



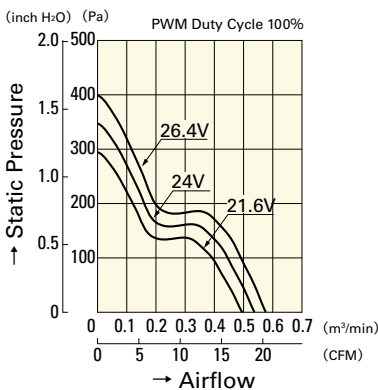
**9GA0424P3H001**



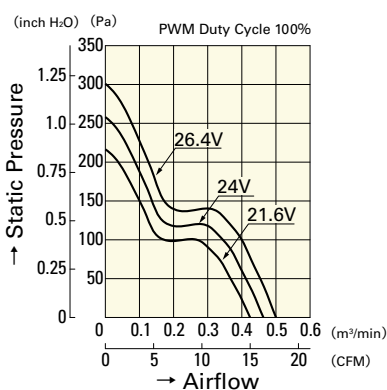
**9GA0424P3M001**



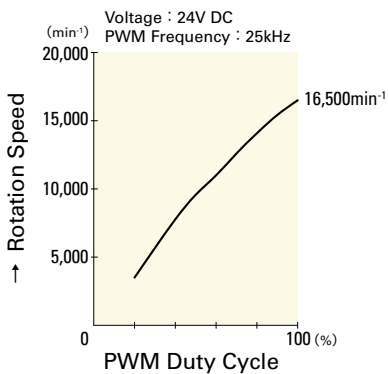
**9GA0424P3G001**



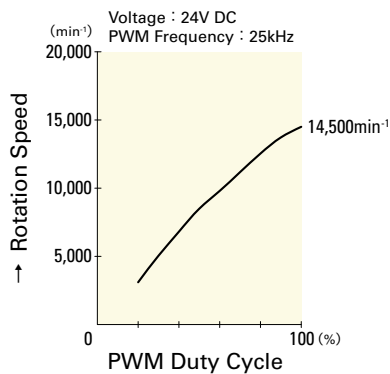
**9GA0424P3H001**



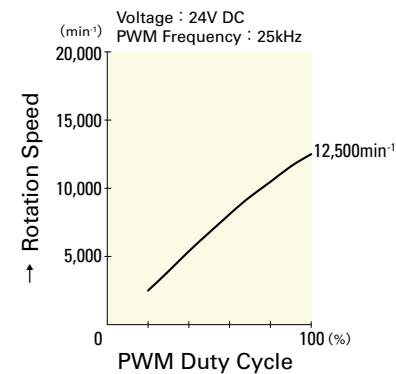
**9GA0424P3M001**



**9GA0424P3G001**



**9GA0424P3H001**



**9GA0424P3M001**