



# 140×140×38 mm

San Ace 140 9GV type

## General Specifications

- Material ..... Frame: Aluminum, 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 (Sensor) Yellow (Control) Brown
- Mass ..... 630 g

## Specifications

The models listed below **have pulse sensors with PWM control function.**

| 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] |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|
| 9GV1412P1G001 | 12                | 10.8 to 13.2                | 100                 | 4.6               | 55.2            | 7600                             | 8.8 310                                  | 640 2.57   | 70           | -20 to +70                 | 40000/60°C        |
|               |                   |                             | 20                  | 0.26              | 3.12            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1412P1S001 |                   |                             | 100                 | 3.1               | 37.2            | 6650                             | 7.7 272                                  | 480 1.93   | 67           |                            |                   |
|               |                   |                             | 20                  | 0.26              | 3.12            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1412P1H001 |                   |                             | 100                 | 1.7               | 20.4            | 5200                             | 6.0 212                                  | 300 1.2  | 62           |                            |                   |
|               |                   |                             | 20                  | 0.26              | 3.12            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1424P1G001 | 24                | 21.6 to 26.4                | 100                 | 2.3               | 55.2            | 7600                             | 8.8 310                                  | 640 2.57   | 70           |                            |                   |
|               |                   |                             | 20                  | 0.13              | 3.12            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1424P1S001 |                   |                             | 100                 | 1.55              | 37.2            | 6650                             | 7.7 272                                  | 480 1.93   | 67           |                            |                   |
|               |                   |                             | 20                  | 0.13              | 3.12            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1424P1H001 |                   |                             | 100                 | 0.85              | 20.4            | 5200                             | 6.0 212                                  | 300 1.2  | 62           |                            |                   |
|               |                   |                             | 20                  | 0.13              | 3.12            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1448P1G001 | 48                | 36 to 60                    | 100                 | 1.15              | 55.2            | 7600                             | 8.8 310                                  | 640 2.57   | 70           |                            |                   |
|               |                   |                             | 20                  | 0.11              | 5.28            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1448P1S001 |                   |                             | 100                 | 0.78              | 37.44           | 6650                             | 7.7 272                                  | 480 1.93   | 67           |                            |                   |
|               |                   |                             | 20                  | 0.11              | 5.28            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |
| 9GV1448P1H001 |                   |                             | 100                 | 0.42              | 20.16           | 5200                             | 6.0 212                                  | 300 1.2  | 62           |                            |                   |
|               |                   |                             | 20                  | 0.11              | 5.28            | 2300                             | 2.66 93                                  | 80 0.32  | 39           |                            |                   |

\* PWM frequency: 25 kHz. Fan does not rotate when PWM duty cycle is 0%.

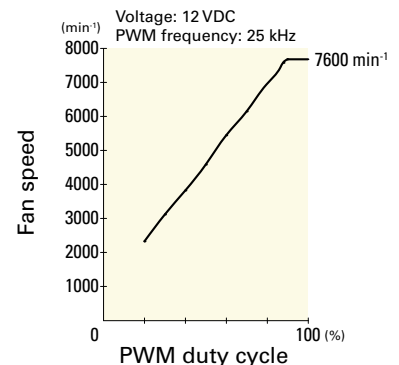
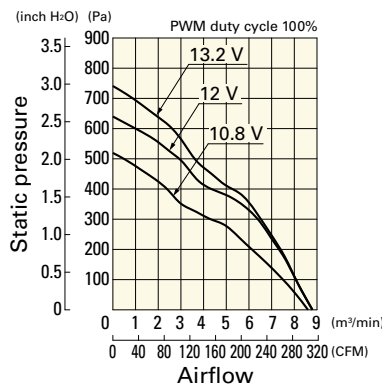
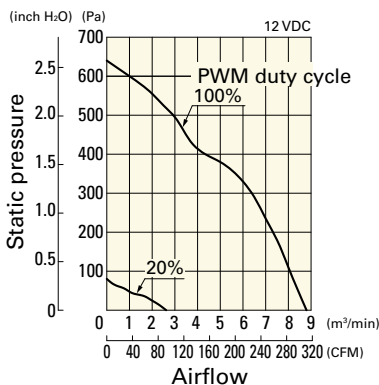
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV1412P1G001** With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

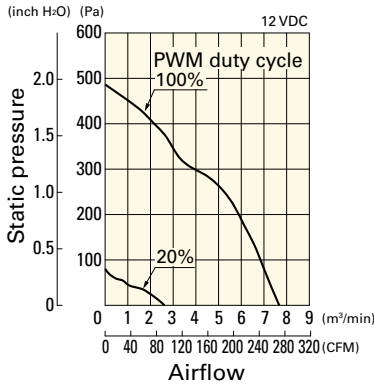
PWM duty - Speed characteristics example



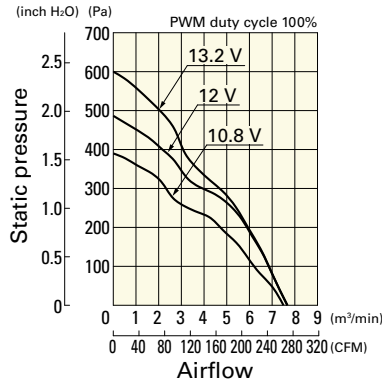
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV1412P1S001** With pulse sensor with PWM control function

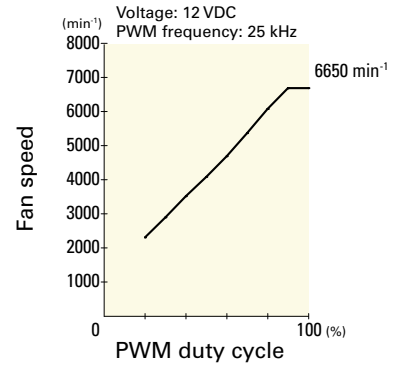
PWM duty cycle



Operating voltage range

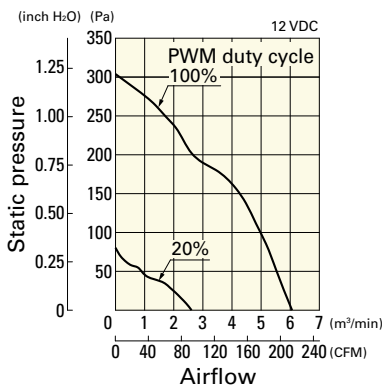


PWM duty - Speed characteristics example

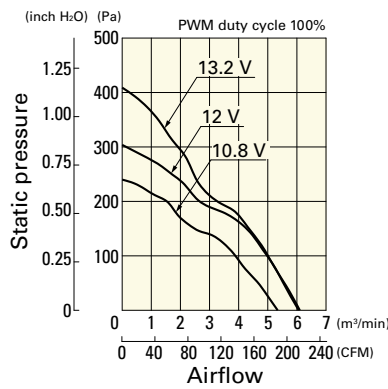


**9GV1412P1H001** With pulse sensor with PWM control function

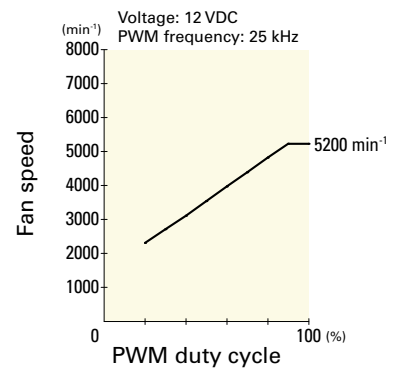
PWM duty cycle



Operating voltage range

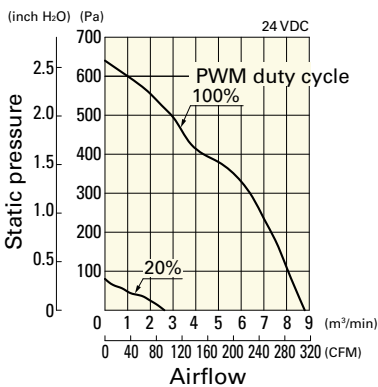


PWM duty - Speed characteristics example

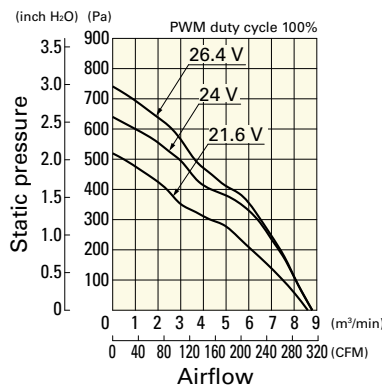


**9GV1424P1G001** With pulse sensor with PWM control function

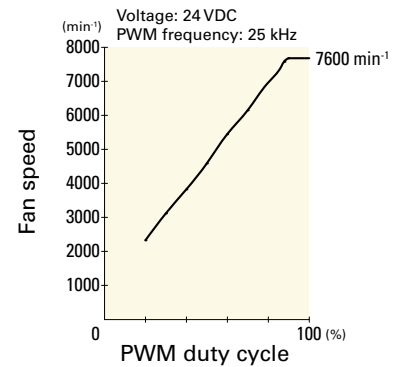
PWM duty cycle



Operating voltage range

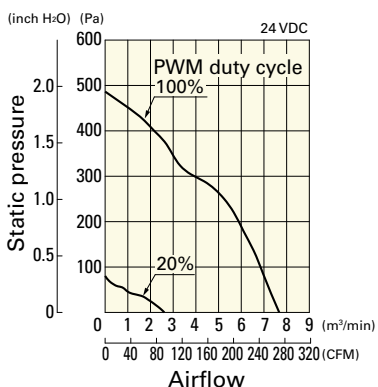


PWM duty - Speed characteristics example

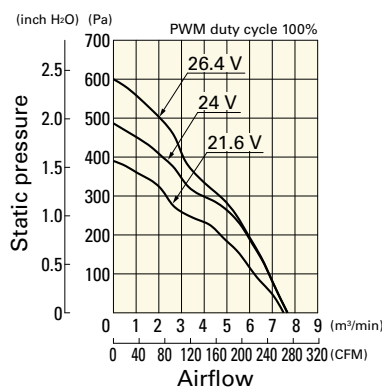


**9GV1424P1S001** With pulse sensor with PWM control function

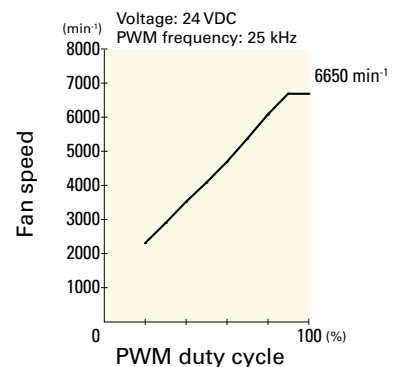
PWM duty cycle



Operating voltage range



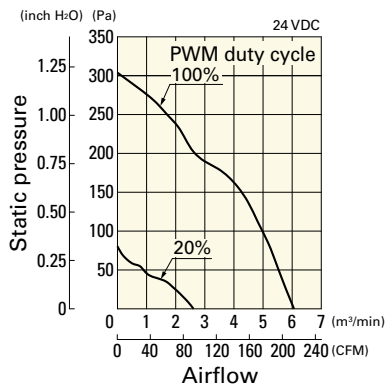
PWM duty - Speed characteristics example



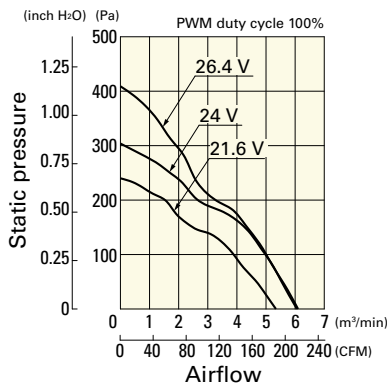
### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV1424P1H001** With pulse sensor with PWM control function

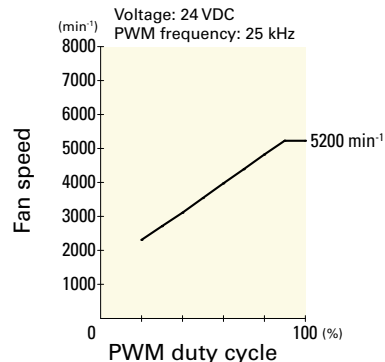
PWM duty cycle



Operating voltage range

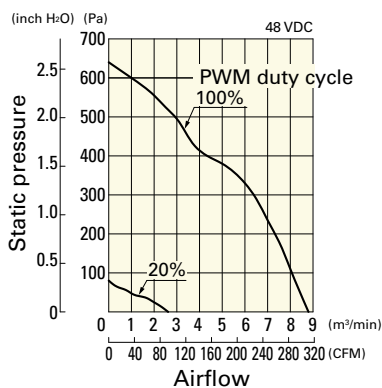


PWM duty - Speed characteristics example

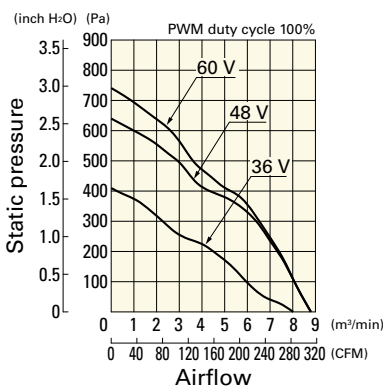


**9GV1448P1G001** With pulse sensor with PWM control function

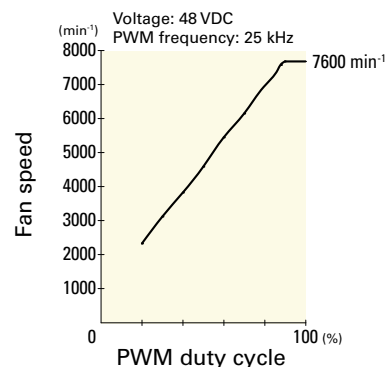
PWM duty cycle



Operating voltage range

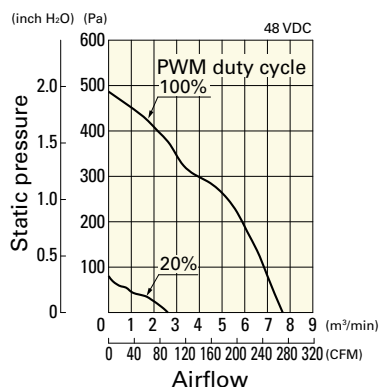


PWM duty - Speed characteristics example

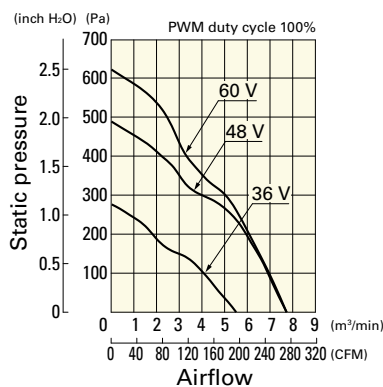


**9GV1448P1S001** With pulse sensor with PWM control function

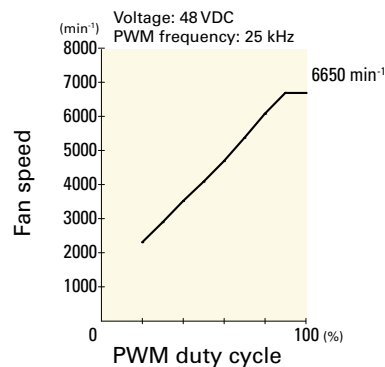
PWM duty cycle



Operating voltage range

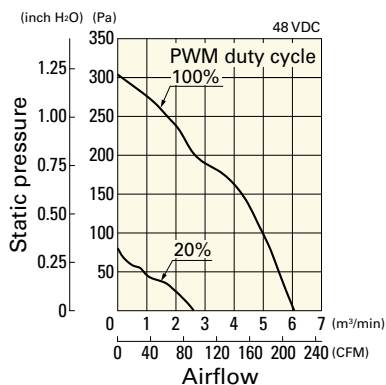


PWM duty - Speed characteristics example

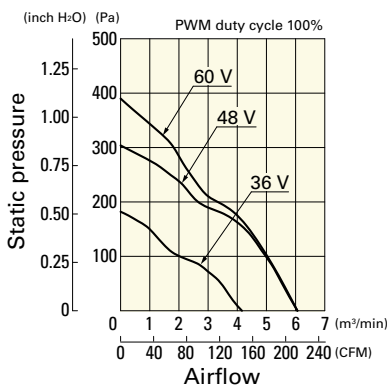


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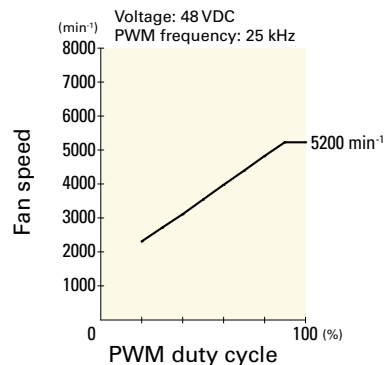
PWM duty cycle



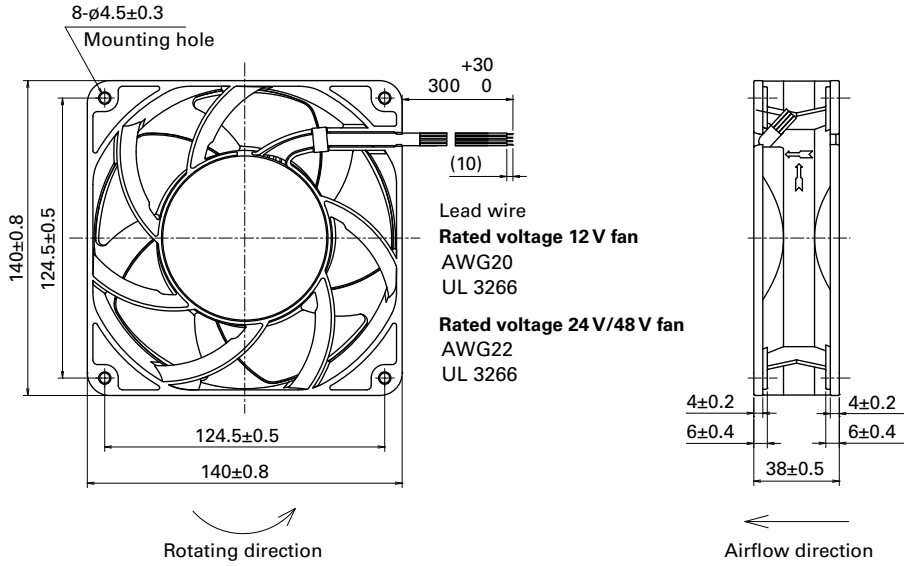
Operating voltage range



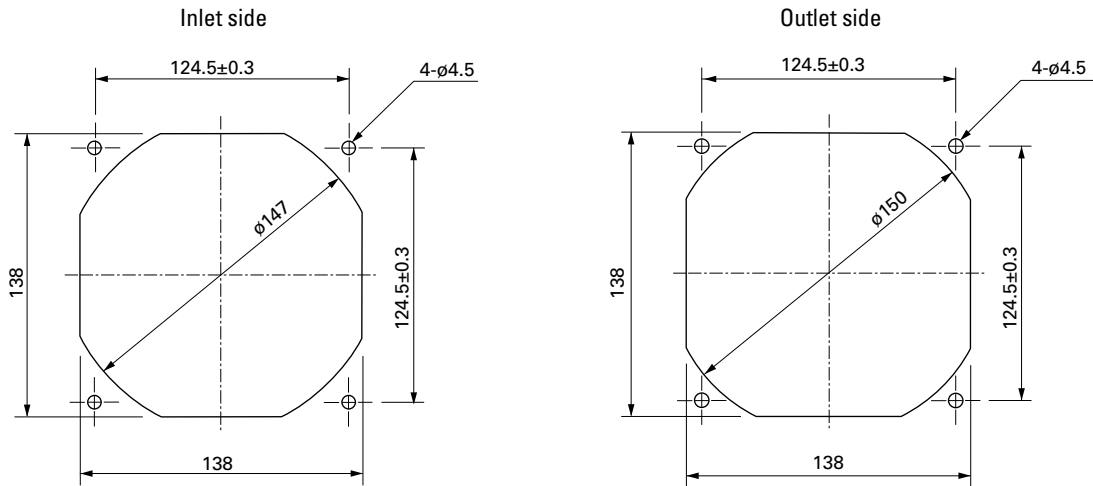
PWM duty - Speed characteristics example



## Dimensions (unit: mm)



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



## Options

Finger guards

page: p. 533

Model no.: 109-719, 109-719H

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