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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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. 529.
- 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 ⁻¹] | Max. airflow [m ³ /min] [CFM] | Max. static pressure [Pa] [inchH ₂ 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%.

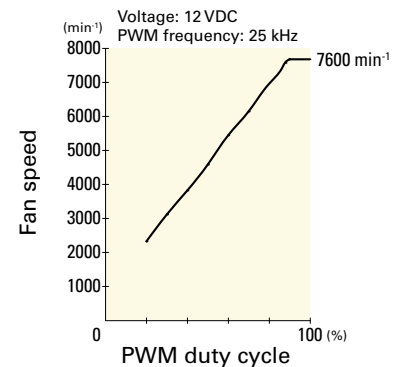
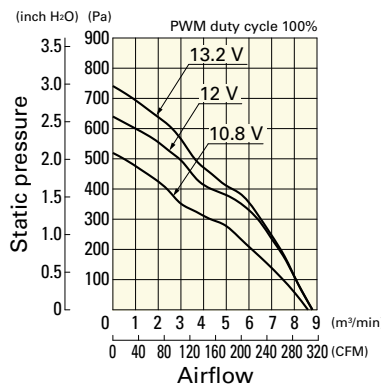
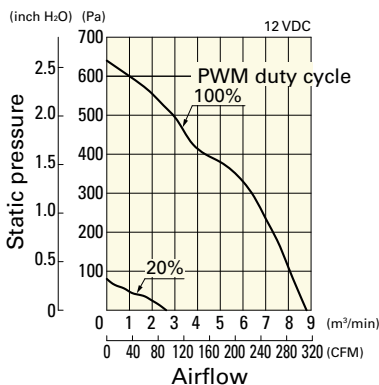
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1412P1G001 With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

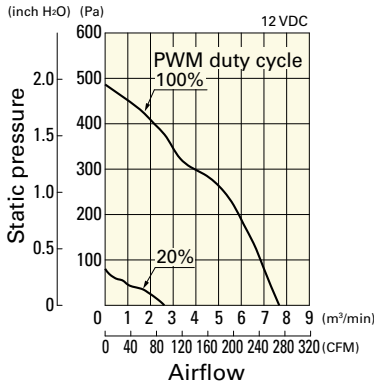
PWM duty - Speed characteristics example



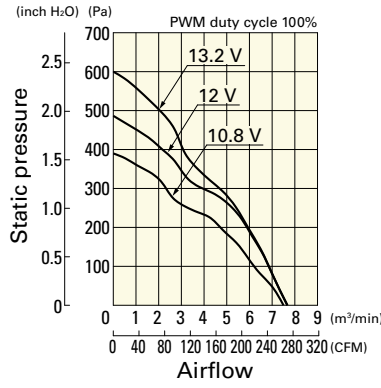
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1412P1S001 With pulse sensor with PWM control function

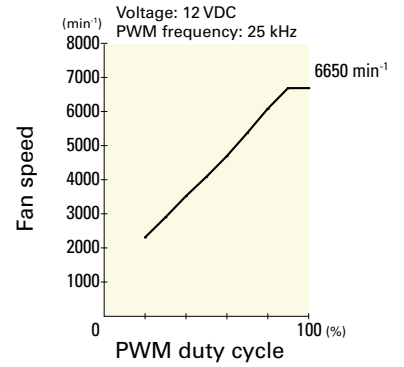
PWM duty cycle



Operating voltage range

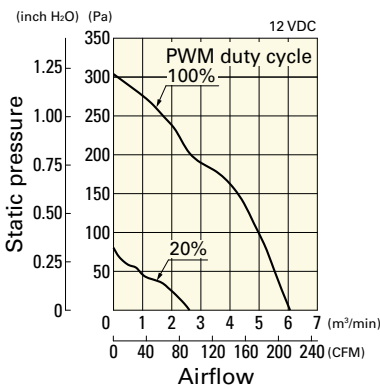


PWM duty - Speed characteristics example

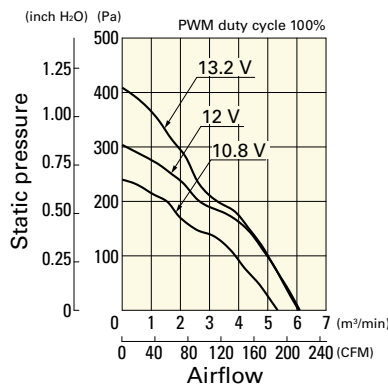


9GV1412P1H001 With pulse sensor with PWM control function

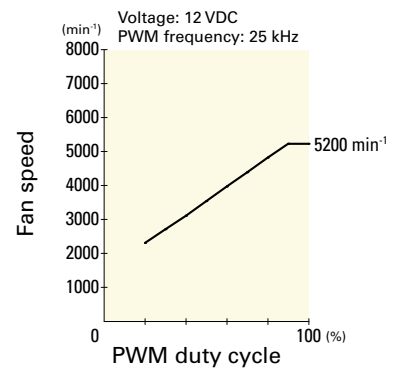
PWM duty cycle



Operating voltage range

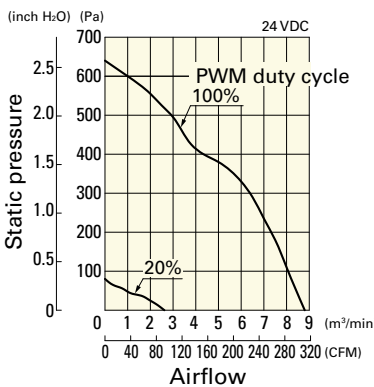


PWM duty - Speed characteristics example

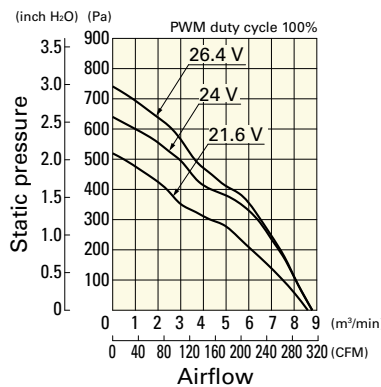


9GV1424P1G001 With pulse sensor with PWM control function

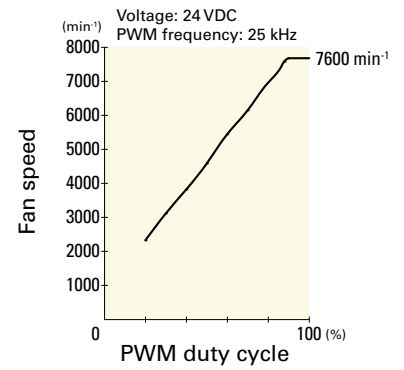
PWM duty cycle



Operating voltage range

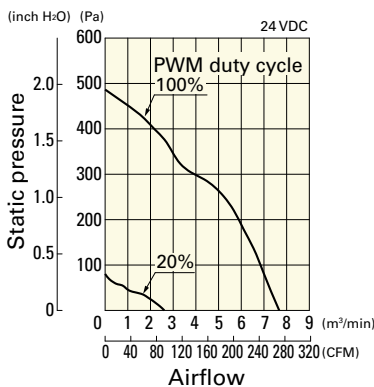


PWM duty - Speed characteristics example

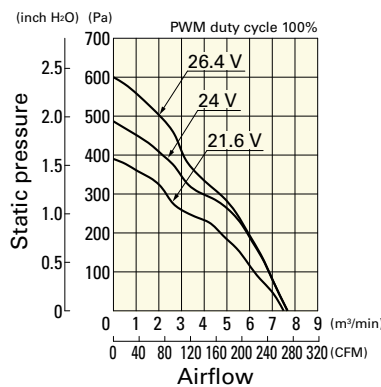


9GV1424P1S001 With pulse sensor with PWM control function

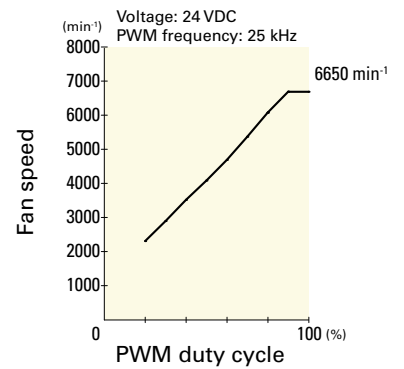
PWM duty cycle



Operating voltage range



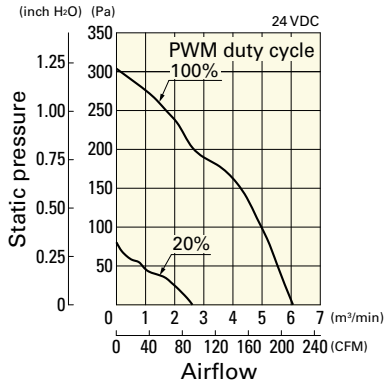
PWM duty - Speed characteristics example



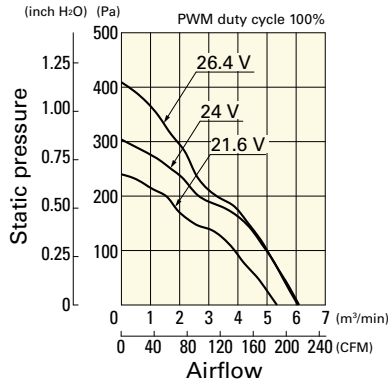
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1424P1H001 With pulse sensor with PWM control function

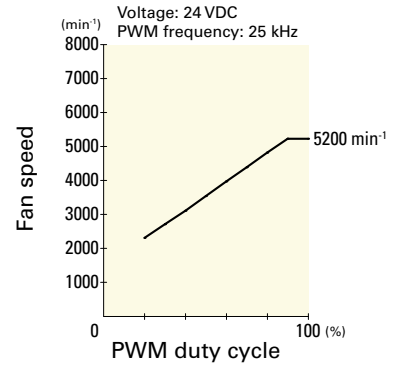
PWM duty cycle



Operating voltage range

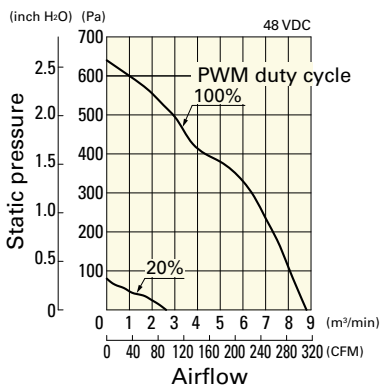


PWM duty - Speed characteristics example

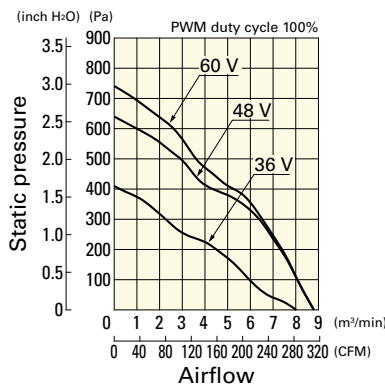


9GV1448P1G001 With pulse sensor with PWM control function

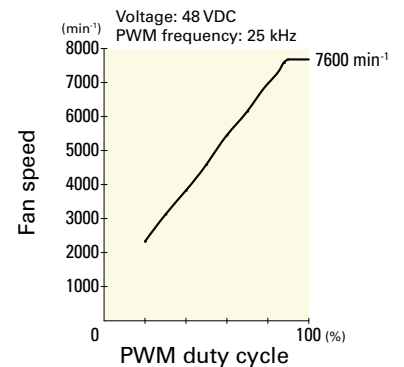
PWM duty cycle



Operating voltage range

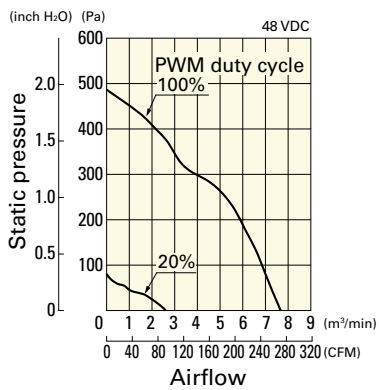


PWM duty - Speed characteristics example

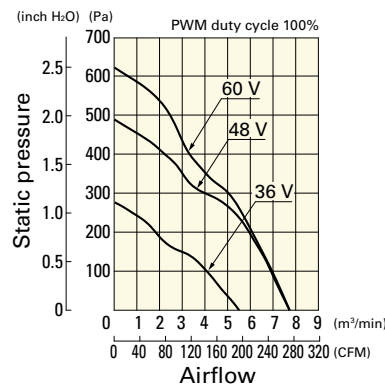


9GV1448P1S001 With pulse sensor with PWM control function

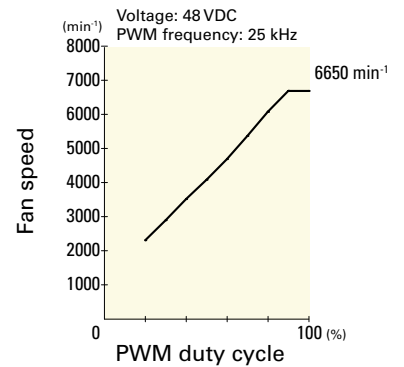
PWM duty cycle



Operating voltage range

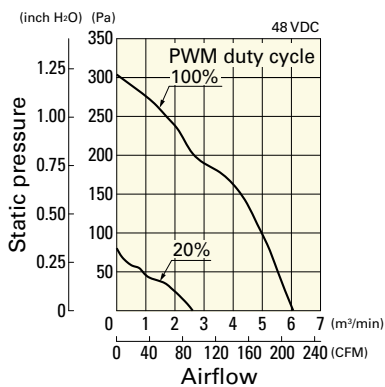


PWM duty - Speed characteristics example

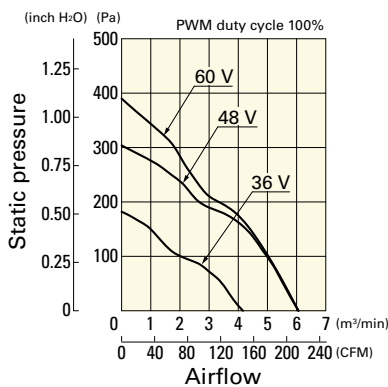


9GV1448P1H001 With pulse sensor with PWM control function

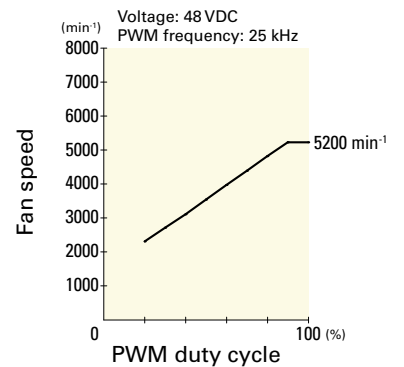
PWM duty cycle



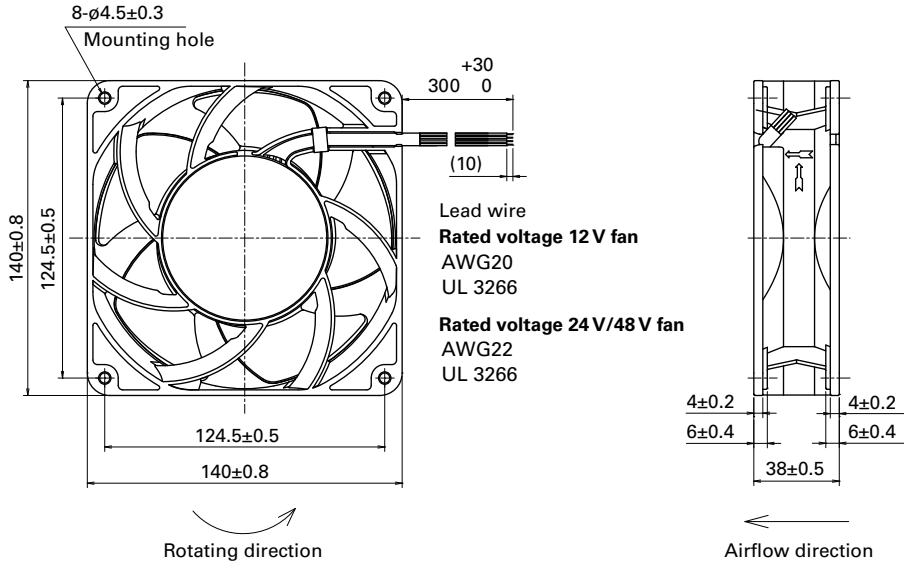
Operating voltage range



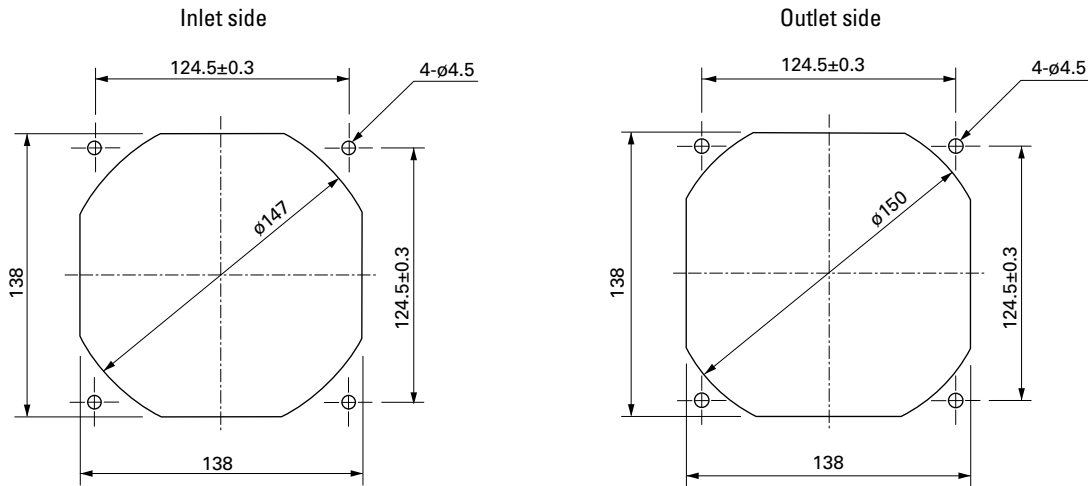
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards

page: p. 514

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