

40x40x56 mm



San Ace 40 9CRV type

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. 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 Inlet ⊕Red ⊖Black (Sensor) Yellow (Control) Brown
Outlet ⊕Orange ⊖Gray (Sensor) Purple (Control) White
- Mass 100 g

Specifications

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

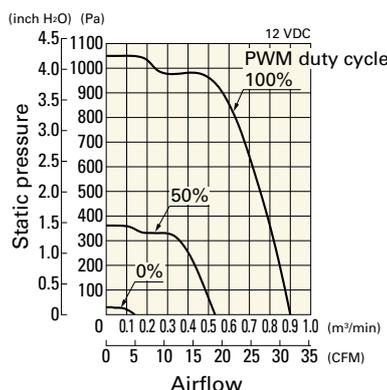
| Model no. | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle [%] | Rated current [A] | Rated input [W] | Rated speed [min ⁻¹] | | Max. airflow [m ³ /min] [CFM] | | Max. static pressure [Pa] [inchH ₂ O] | | SPL [dB (A)] | Operating temperature [°C] | Expected life [h] |
|----------------|-------------------|-----------------------------|--------------------|-------------------|-----------------|----------------------------------|--------|--|--------|--|----------------------|--------------|----------------------------|----------------------------|
| | | | | | | Inlet | Outlet | Inlet | Outlet | Pa | inchH ₂ O | | | |
| 9CRV0412P5J201 | 12 | 10.8 to 13.2 | 100 | 1.8 | 21.6 | 22500 | 20000 | 0.9 | 31.8 | 1050 | 4.22 | 68 | -20 to +70 | 40000/60°C (70000/40°C) |
| | | | 0 | 0.11 | 1.32 | 3800 | 3500 | 0.14 | 4.9 | 30 | 0.12 | 26 | | |
| 9CRV0412P5G201 | | | 100 | 1.1 | 13.2 | 19000 | 16900 | 0.76 | 26.8 | 748 | 3.0 | 62 | | |
| | | | 0 | 0.11 | 1.32 | 3800 | 3500 | 0.14 | 4.9 | 30 | 0.12 | 26 | | |
| 9CRV0412P5S201 | | | 100 | 0.8 | 9.6 | 17000 | 15100 | 0.68 | 24 | 590 | 2.37 | 59 | | |
| | | | 0 | 0.11 | 1.32 | 3800 | 3500 | 0.14 | 4.9 | 30 | 0.12 | 26 | | |
| 9CRV0412P5H201 | | | 100 | 0.55 | 6.6 | 15000 | 13300 | 0.6 | 21.2 | 451 | 1.81 | 56 | | |
| | | | 0 | 0.11 | 1.32 | 3800 | 3500 | 0.14 | 4.9 | 30 | 0.12 | 26 | | |

* 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.

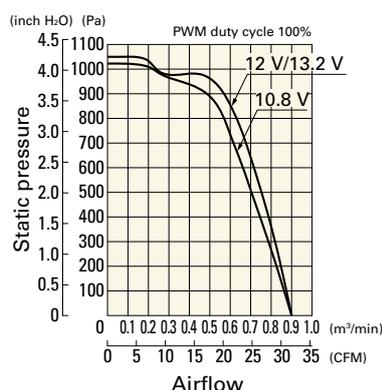
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9CRV0412P5J201 With pulse sensor with PWM control

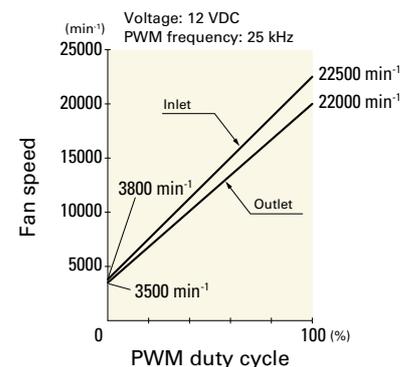
PWM duty cycle



Operating voltage range



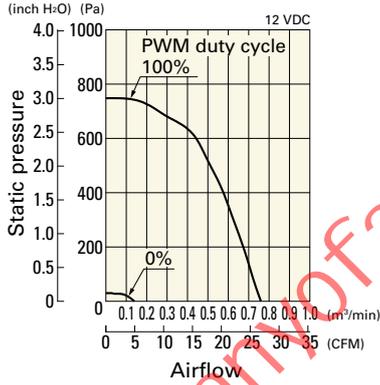
PWM duty - Speed characteristics example



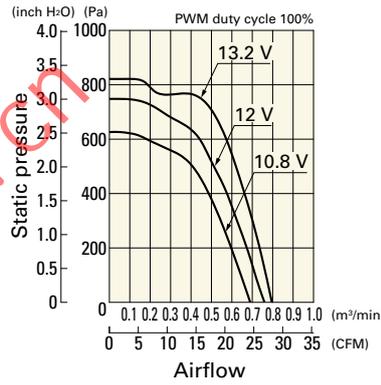
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9CRV0412P5G201 With pulse sensor with PWM control

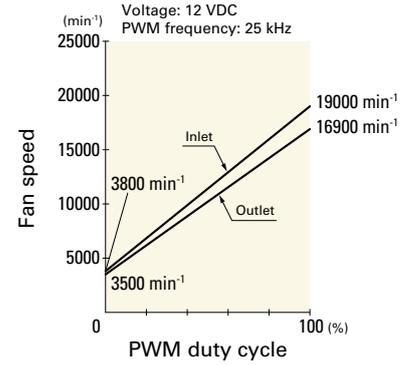
PWM duty cycle



Operating voltage range

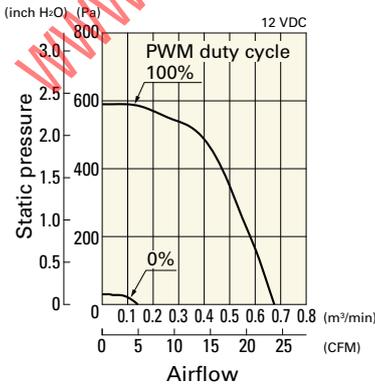


PWM duty - Speed characteristics example

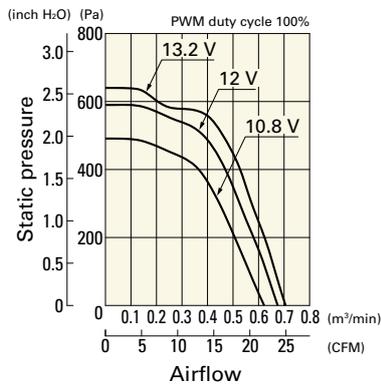


9CRV0412P5S201 With pulse sensor with PWM control

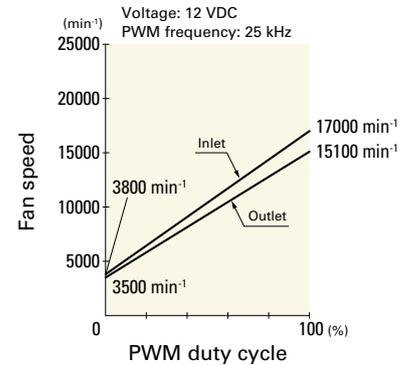
PWM duty cycle



Operating voltage range

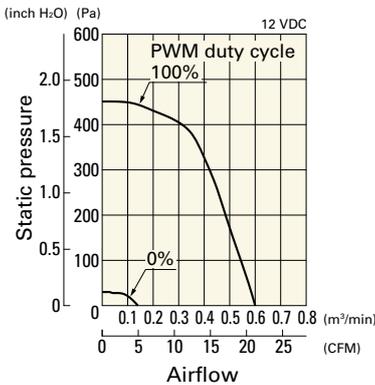


PWM duty - Speed characteristics example

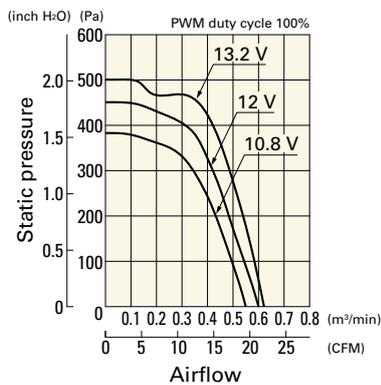


9CRV0412P5H201 With pulse sensor with PWM control

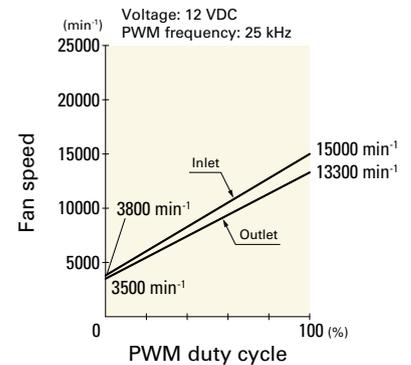
PWM duty cycle



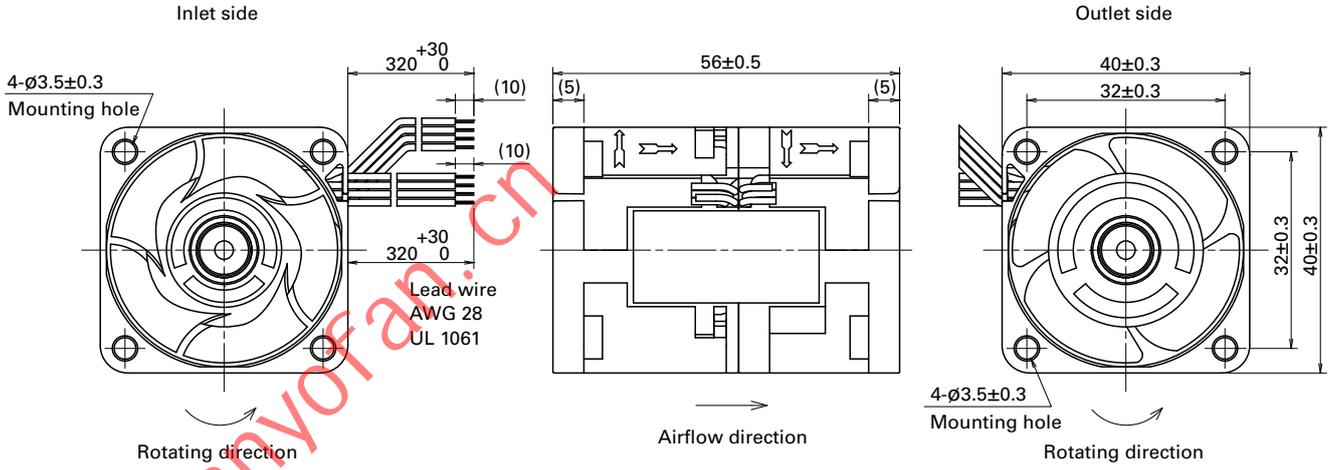
Operating voltage range



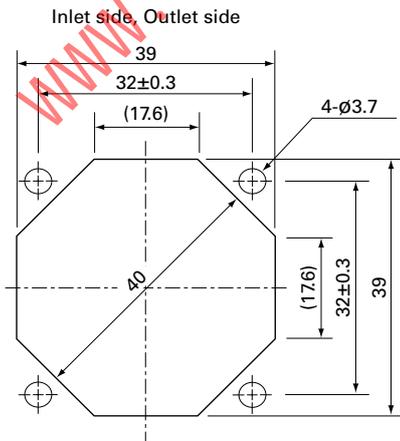
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards

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