

40x40x48 mm

San Ace 40 9CRA type   



General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), 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 Inlet ⊕Red ⊖Black (Sensor) Yellow (Control) Brown
Outlet ⊕Orange ⊖Gray (Sensor) Purple (Control) White
- Mass 80 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] |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--------|--|--------|--|--------|--------------|----------------------------|-------------------|
| | | | | | | Inlet | Outlet | Inlet | Outlet | Inlet | Outlet | | | |
| 9CRA0412P4K03 | 12 | 10.8 to 13.2 | 100 | 1.6 | 19.2 | 17500 | 11700 | 0.92 | 32.5 | 650.0 | 2.61 | 64 | -20 to +70 | 40000/60°C |
| | | | 0 | 0.19 | 2.28 | 5250 | 3510 | 0.276 | 9.75 | 58.5 | 0.235 | 33 | | |
| 9CRA0412P4J03 | | | 100 | 1.2 | 14.4 | 16200 | 10800 | 0.85 | 30.0 | 560.0 | 2.25 | 62 | | |
| | | | 0 | 0.15 | 1.8 | 4500 | 3000 | 0.236 | 8.33 | 43.2 | 0.173 | 28 | | |
| 9CRA0412P4G03 | | | 100 | 1.0 | 12.0 | 14700 | 9800 | 0.77 | 27.2 | 460.0 | 1.85 | 59 | | |
| | | | 0 | 0.15 | 1.8 | 4410 | 2940 | 0.231 | 8.16 | 41.4 | 0.166 | 28 | | |

* PWM frequency: 25 kHz

The following sensor and control options are available for selection.

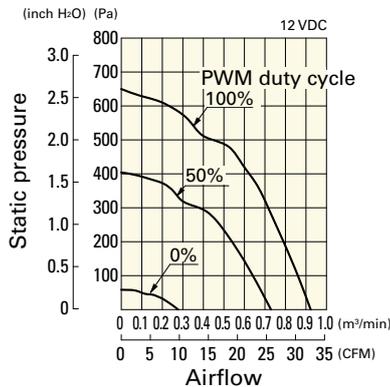
Available for all models. **Without sensor**

Differs according to the model. Refer to the table on p. 567. **Pulse sensor**

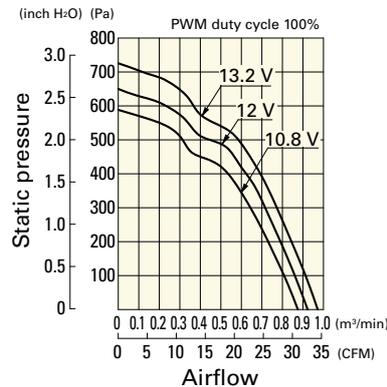
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9CRA0412P4K03 With pulse sensor with PWM control function

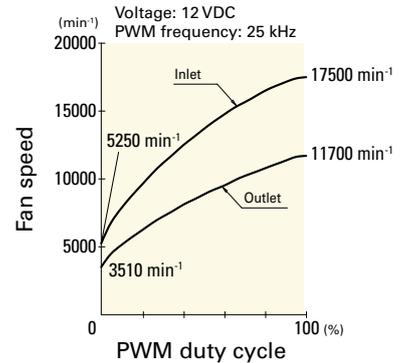
PWM duty cycle



Operating voltage range



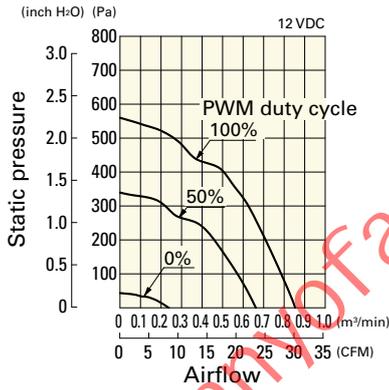
PWM duty - Speed characteristics example



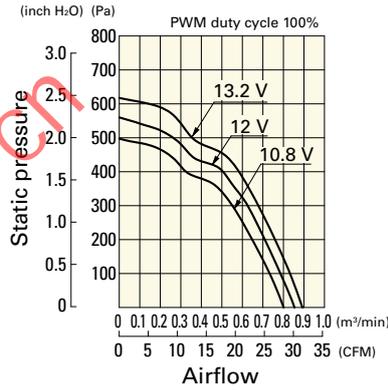
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9CRA0412P4J03 With pulse sensor with PWM control function

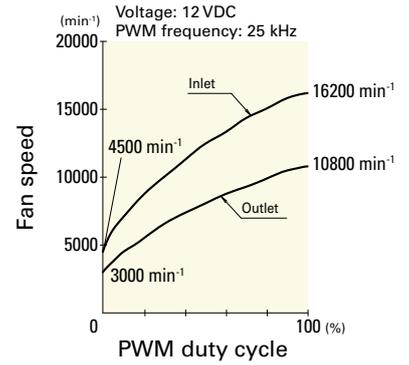
PWM duty cycle



Operating voltage range

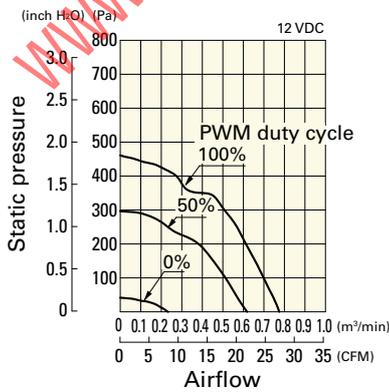


PWM duty - Speed characteristics example

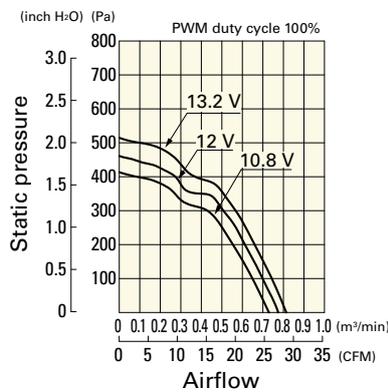


9CRA0412P4G03 With pulse sensor with PWM control function

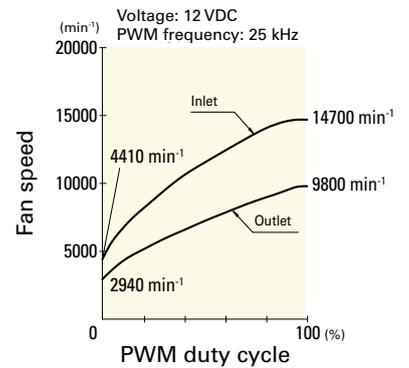
PWM duty cycle



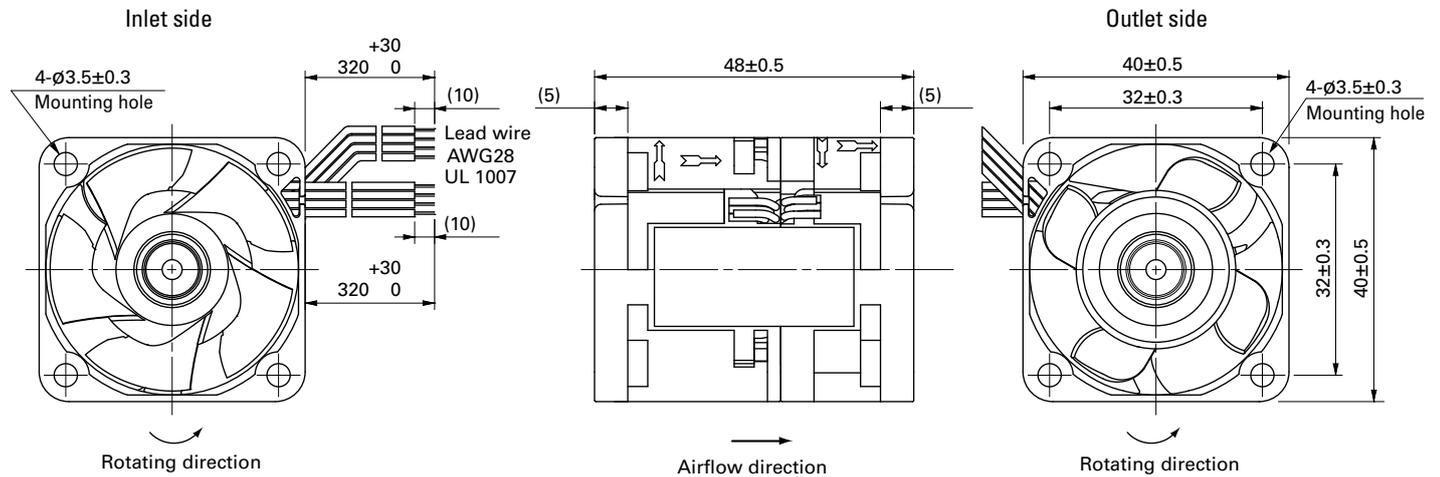
Operating voltage range



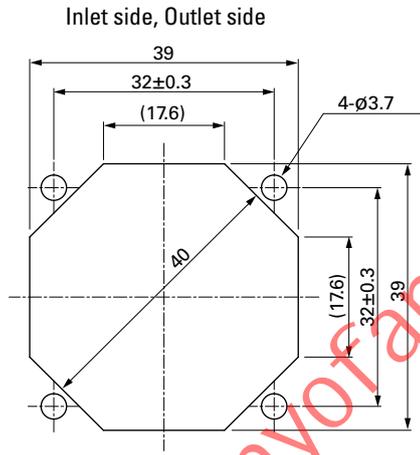
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



■ Options

Finger guards

page: p. 532

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

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