



80×80×25 mm

San Ace 80W 9WL type  

General Specifications

- Material Frame: Aluminum (Black coating), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in indoor 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
(For models without PWM control function, there is no speed control wiring.)
- Mass 150 g
- Ingress protection IP68

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] | |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|----|
| 9WL0812P4J001 | 12 | 10.8 to 13.2 | 100 | 0.6 | 7.2 | 7400 | 2.07 73.0 | 177 0.71 | 49 | -20 to +70 | 180000/60°C | |
| | | | 20 | 0.06 | 0.72 | 1800 | 0.5 17.6 | 10.4 0.04 | 16 | | | |
| 9WL0812P4G001 | | | 100 | 0.3 | 3.6 | 5500 | 1.54 54.3 | 98 0.39 | 43 | | | |
| | | | 25 | 0.05 | 0.6 | 1400 | 0.39 13.7 | 6.3 0.02 | 14 | | | |
| 9WL0812P4H001 | | | 100 | 0.12 | 1.44 | 3700 | 1.03 36.3 | 44 0.17 | 31 | | | |
| | | | 25 | 0.04 | 0.48 | 1100 | 0.3 10.5 | 3.9 0.01 | 13 | | | |
| 9WL0824P4J001 | | 24 | 21.6 to 26.4 | 100 | 0.28 | 6.72 | 7400 | 2.07 73.0 | 177 0.71 | | | 49 |
| | | | | 20 | 0.05 | 1.2 | 2400 | 0.67 23.6 | 18.6 0.07 | | | 22 |
| 9WL0824P4G001 | | | | 100 | 0.14 | 3.36 | 5500 | 1.54 54.3 | 98 0.39 | | | 43 |
| | | | | 20 | 0.02 | 0.48 | 1200 | 0.33 11.6 | 4.6 0.01 | | | 13 |
| 9WL0824P4H001 | | | | 100 | 0.05 | 1.2 | 3700 | 1.03 36.3 | 44 0.17 | | | 31 |
| | | | | 30 | 0.02 | 0.48 | 1100 | 0.3 10.5 | 3.9 0.01 | | | 13 |

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

The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on p. 579. **Without sensor** **Pulse sensor** **Lock sensor**

The models listed below **have pulse sensors.**

| Model no. | Rated voltage [V] | Operating voltage range [V] | 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] |
|--------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|
| 9WL0812L4001 | 12 | 8 to 13.2 | 0.06 | 0.72 | 2300 | 0.64 22.6 | 17 0.068 | 22 | -20 to +70 | 180000/60°C |
| 9WL0824F4001 | 24 | 12 to 26.4 | 0.045 | 1.08 | 3300 | 0.92 32.5 | 35 0.14 | 29 | | |

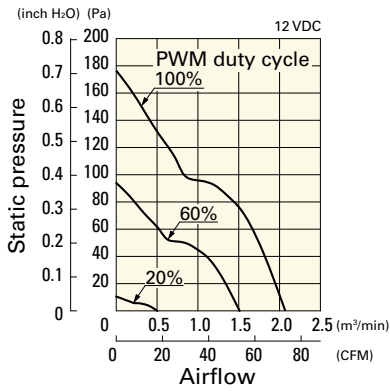
The following sensor and control options are available for selection.

Available for all models. **Without sensor**

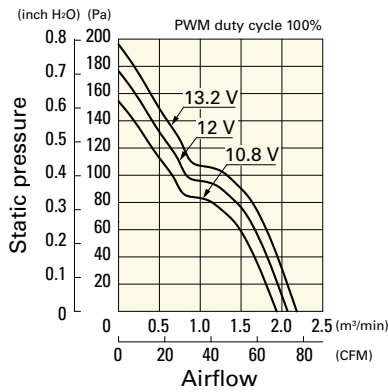
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0812P4J001 With pulse sensor with PWM control function

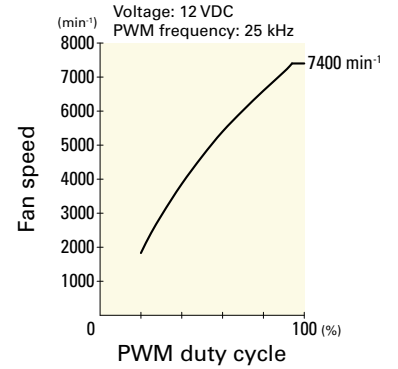
PWM duty cycle



Operating voltage range

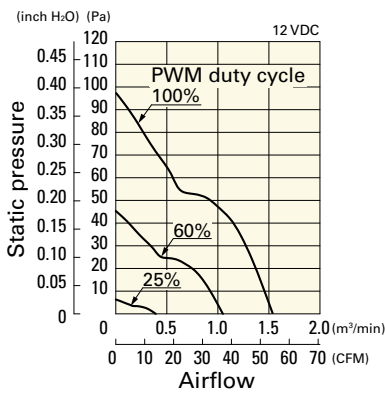


PWM duty - Speed characteristics example

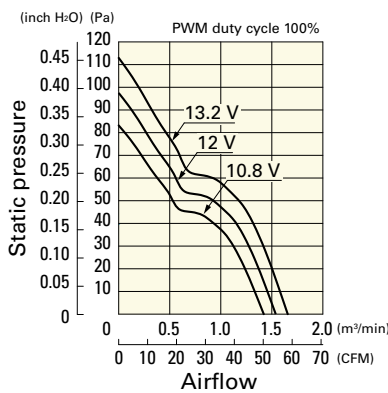


9WL0812P4G001 With pulse sensor with PWM control function

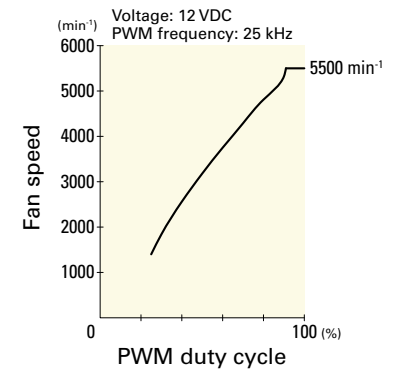
PWM duty cycle



Operating voltage range

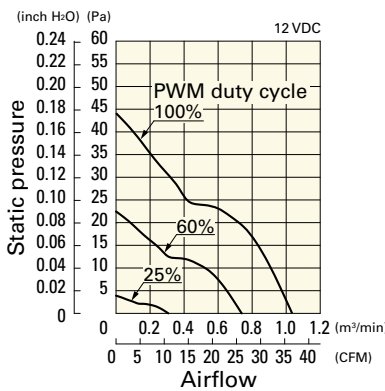


PWM duty - Speed characteristics example

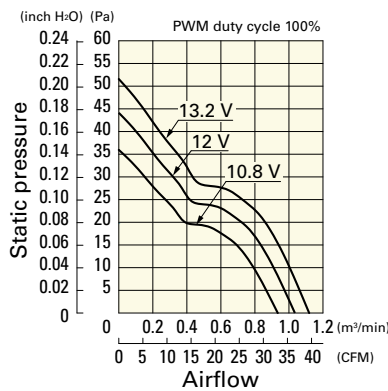


9WL0812P4H001 With pulse sensor with PWM control function

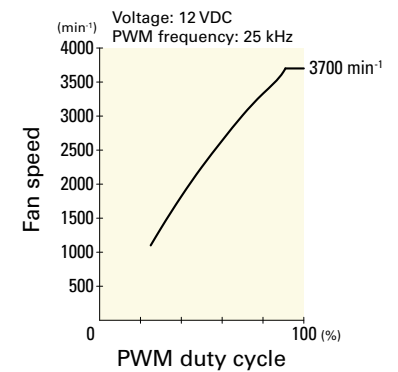
PWM duty cycle



Operating voltage range

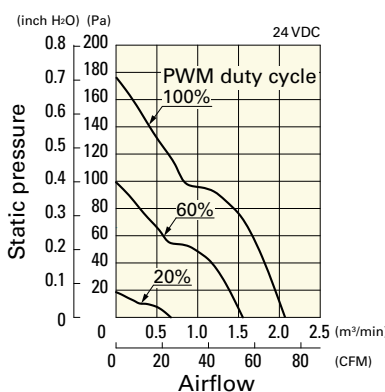


PWM duty - Speed characteristics example

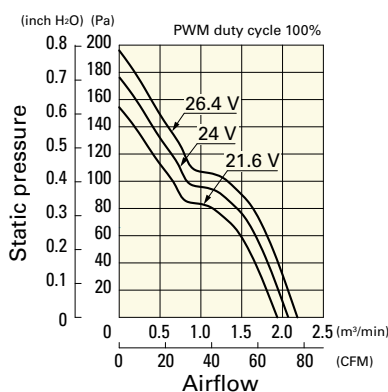


9WL0824P4J001 With pulse sensor with PWM control function

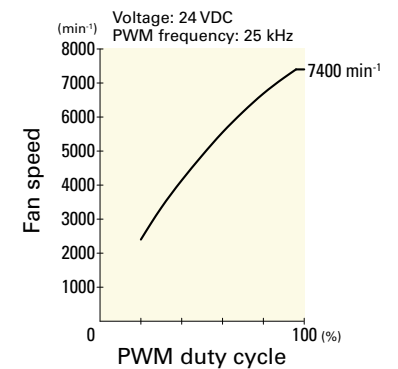
PWM duty cycle



Operating voltage range



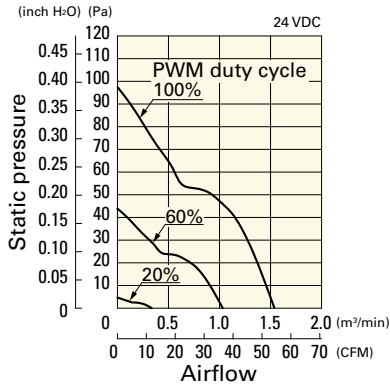
PWM duty - Speed characteristics example



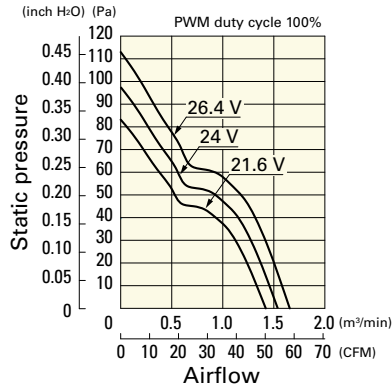
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0824P4G001 With pulse sensor with PWM control function

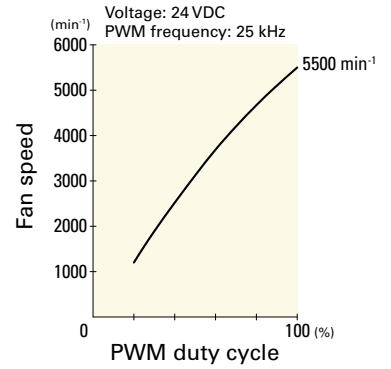
PWM duty cycle



Operating voltage range

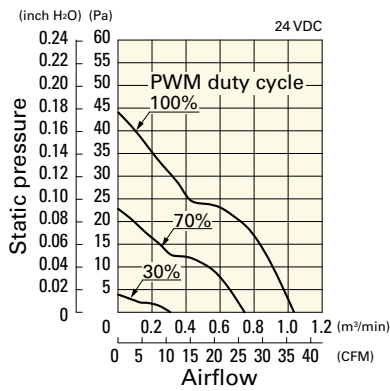


PWM duty - Speed characteristics example

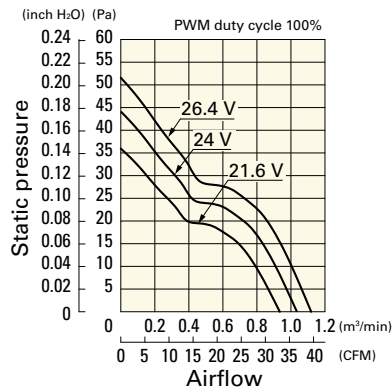


9WL0824P4H001 With pulse sensor with PWM control function

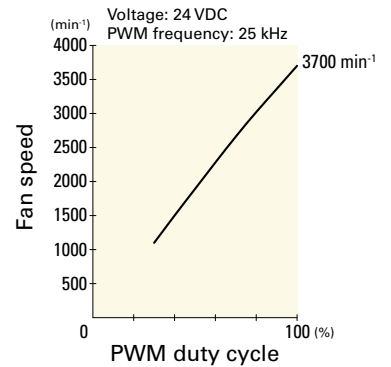
PWM duty cycle



Operating voltage range

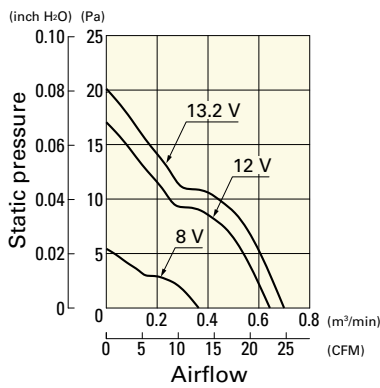


PWM duty - Speed characteristics example



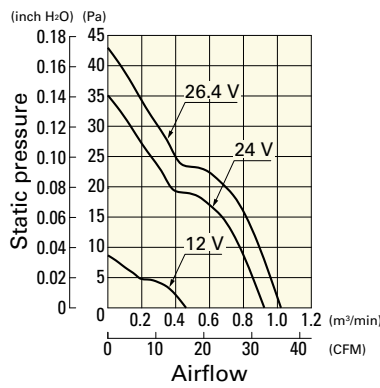
9WL0812L4001 With pulse sensor

Operating voltage range

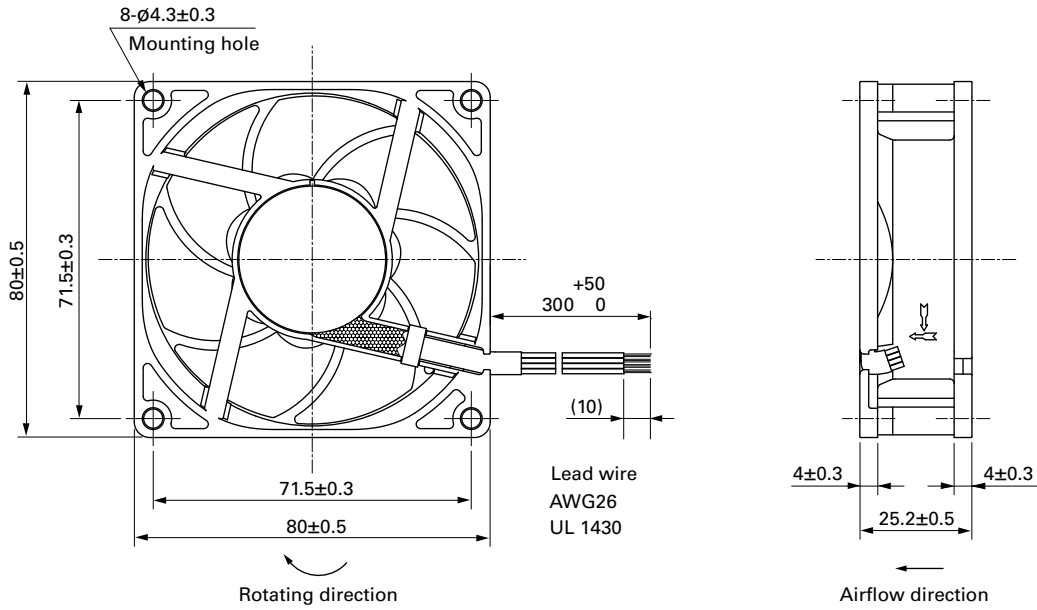


9WL0824F4001 With pulse sensor

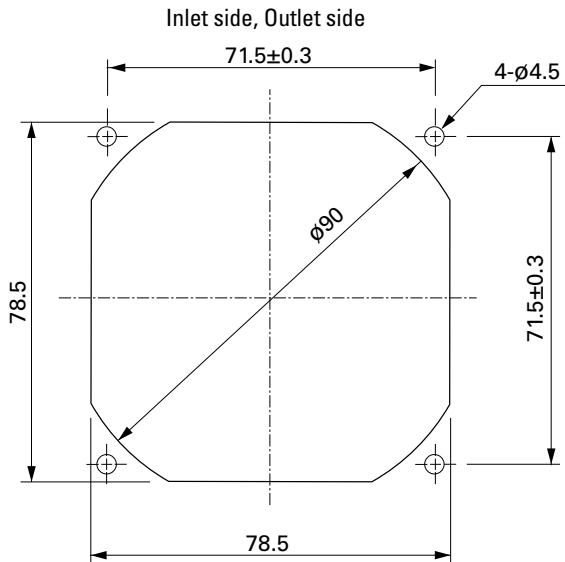
Operating voltage range



Dimensions (unit: mm)



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



Options

Finger guards

page: p. 532

Model no.: 109-049E, 109-049H, 109-049C

Resin finger guards

page: p. 539

Model no.: 109-1002G



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