



80x80x25 mm

San Ace 80L 9LG 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
(For models without PWM control function, there is no speed control wiring.)
- Mass 130 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] |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|
| 9LG0812P4J001 | 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 | | |
| 9LG0812P4G001 | | | 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 | | |
| 9LG0812P4H001 | | | 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 | | |
| 9LG0824P4J001 | 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 | | |
| 9LG0824P4G001 | | | 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 | | |
| 9LG0824P4H001 | | | 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.

Available for all models. **Lock sensor**

Differs according to the model. Refer to the table on p. 576. **Without sensor** **Pulse 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] |
|--------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|
| 9LG0812S4001 | 12 | 6 to 13.2 | 0.17 | 2.04 | 4200 | 1.17 41.3 | 56 0.22 | 35 | -20 to +70 | 180000/60°C |
| 9LG0812F4001 | | | 0.1 | 1.2 | 3300 | 0.92 32.5 | 35 0.14 | 29 | | |
| 9LG0812M4001 | | | 0.08 | 0.96 | 2900 | 0.8 28.3 | 27 0.11 | 25 | | |
| 9LG0812L4001 | | 0.06 | 0.72 | 2300 | 0.64 22.6 | 17 0.068 | 22 | | | |
| 9LG0824S4001 | 24 | 12 to 26.4 | 0.07 | 1.68 | 4200 | 1.17 41.3 | 56 0.22 | 35 | | |
| 9LG0824F4001 | | | 0.045 | 1.08 | 3300 | 0.92 32.5 | 35 0.14 | 29 | | |
| 9LG0824M4001 | | | 0.04 | 0.96 | 2900 | 0.8 28.3 | 27 0.11 | 25 | | |
| 9LG0824L4001 | | 0.03 | 0.72 | 2300 | 0.64 22.6 | 17 0.068 | 22 | | | |

The following sensor and control options are available for selection.

Available for all models. **Without sensor** **Lock sensor**

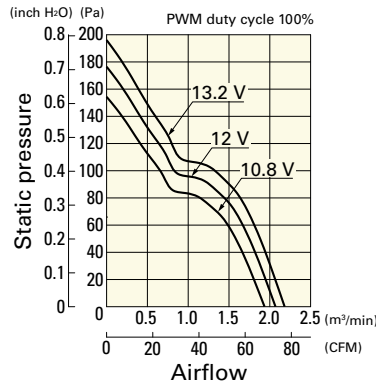
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0812P4J001 With pulse sensor with PWM control function

PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



9LG0812P4G001 With pulse sensor with PWM control function

PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example

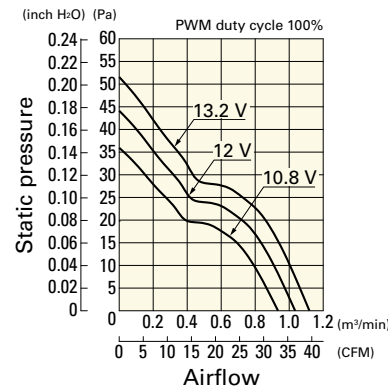


9LG0812P4H001 With pulse sensor with PWM control function

PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



9LG0824P4J001 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

9LG0824P4G001 With pulse sensor with PWM control function

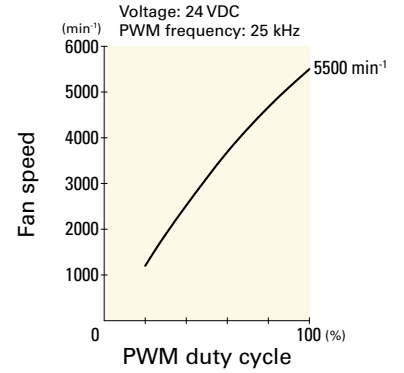
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



9LG0824P4H001 With pulse sensor with PWM control function

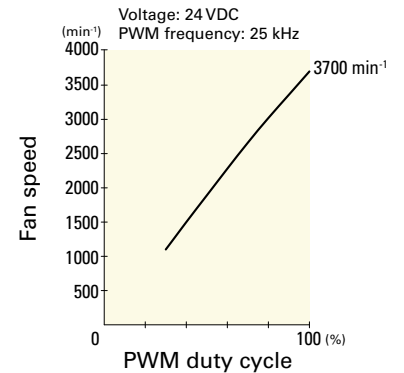
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



9LG0812S4001 With pulse sensor

Operating voltage range



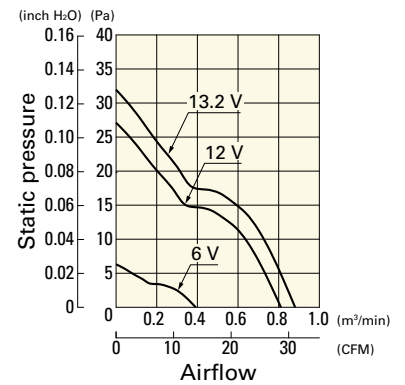
9LG0812F4001 With pulse sensor

Operating voltage range



9LG0812M4001 With pulse sensor

Operating voltage range



9LG0812L4001 With pulse sensor

Operating voltage range



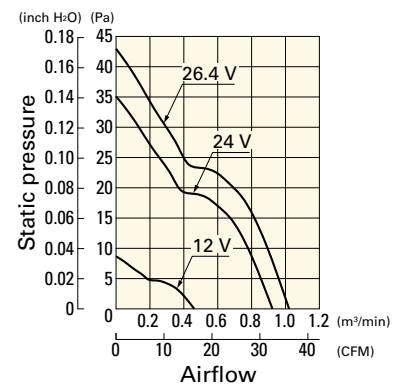
9LG0824S4001 With pulse sensor

Operating voltage range



9LG0824F4001 With pulse sensor

Operating voltage range



DC

Long Life Fan 80 mm sq.

Airflow - Static Pressure Characteristics

9LG0824M4001 With pulse sensor

Operating voltage range



9LG0824L4001 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

Resin filter kits

page: p. 540

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),
109-1002F30 (30PPI), 109-1002F40 (40PPI)



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