San Ace 120*AD* 9ADA type
ACDC Fan

Features

High Airflow and High Static Pressure

This fan delivers a maximum airflow of 3.9 m^3/min and maximum static pressure of 170 Pa,(1) which are approximately 1.3 times and 2 times higher than our current model,(2) respectively.

Wide Operating Voltage Range

This fan has an input voltage range of 100 to 240 VAC, supporting both 100 and 200 VAC systems.

(1) For a model 9ADA1201P1G001

(2) Current model: 120 × 120 × 38 mm *San Ace 120AD* 9AD type ACDC Fan (model: 9AD1201H12).

120 × 120 × 38mm

Specifications

The models listed below **have ribs and pulse sensors with PWM control function.** For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min^{-1}]	Max. airflow [m^3/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH_2O]	SPL [dB(A)]	Operating temperature [°C]	Expected life [h]
9ADA1201P1G001	100 to 240	90 to 264	50/60	100	0.17	9.0	4400	3.9	138	170	0.683	52	-20 to +70	40000/60°C (70000/40°C)
				20	0.04	1.4	1050	0.93	32.8	15	0.06	25		

* 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 0% duty cycle.

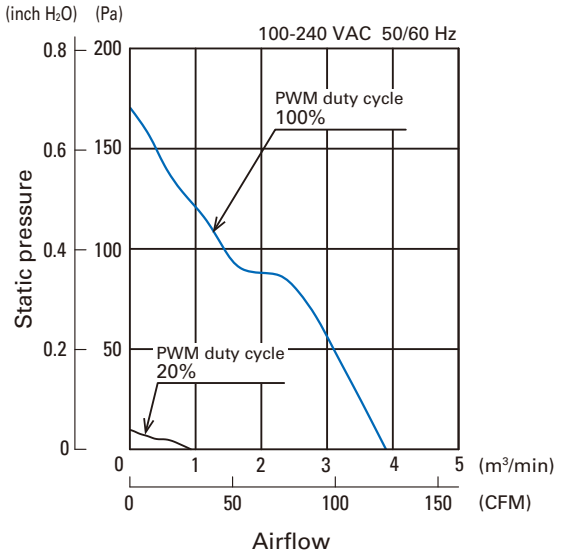
The models listed below **have ribs and no sensors.** For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	Rated current [A]	Rated input [W]	Rated speed [min^{-1}]	Max. airflow [m^3/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH_2O]	SPL [dB(A)]	Operating temperature [°C]	Expected life [h]
9ADA1201G1002	100 to 240	90 to 264	50/60	0.17	9.0	4400	3.9	138	170	0.683	52	-20 to +70	40000/60°C (70000/40°C)
9ADA1201H1002				0.13	6.6	3800	3.36	119	128	0.514	48		60000/60°C (90000/40°C)

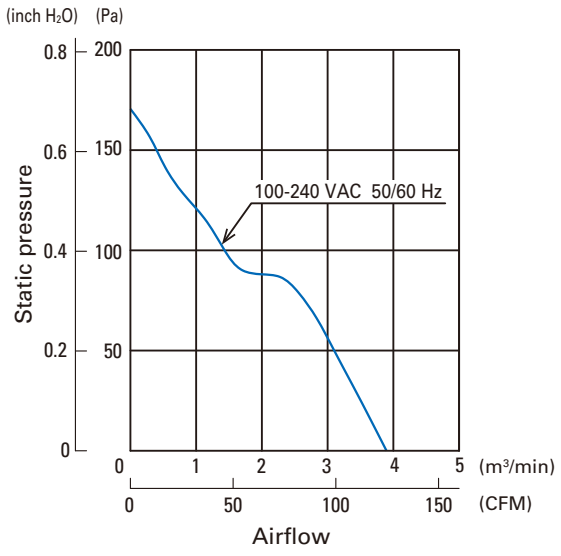
Common Specifications

- ☐ Material ····· Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- ☐ Expected life ····· Refer to specifications
  (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
- ☐ Dielectric strength ····· 50/60 Hz, 2500 VAC, for 1 second (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.
- ☐ Operating temperature ····· Refer to specifications (Non-condensing)
- ☐ Storage temperature ····· -30 to +70°C (Non-condensing)
- ☐ Lead wire ····· AC power input L: Orange N: Gray
  Sensor Yellow Control Brown GND Black
  (For models without sensors, there is no sensor or control wiring.)
- ☐ Mass ····· 340 g

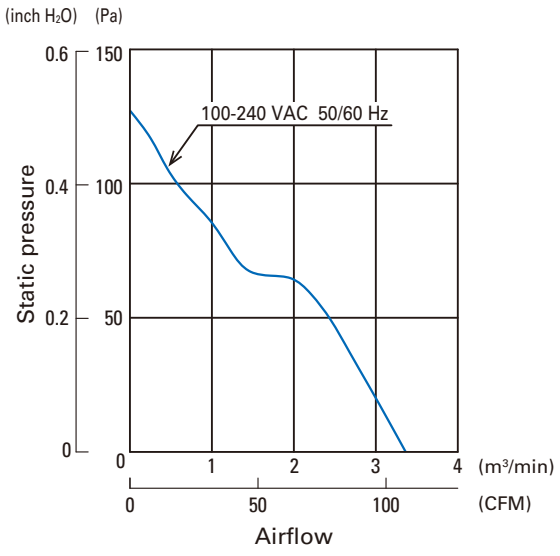
Airflow - Static Pressure Characteristics



9ADA1201P1G001

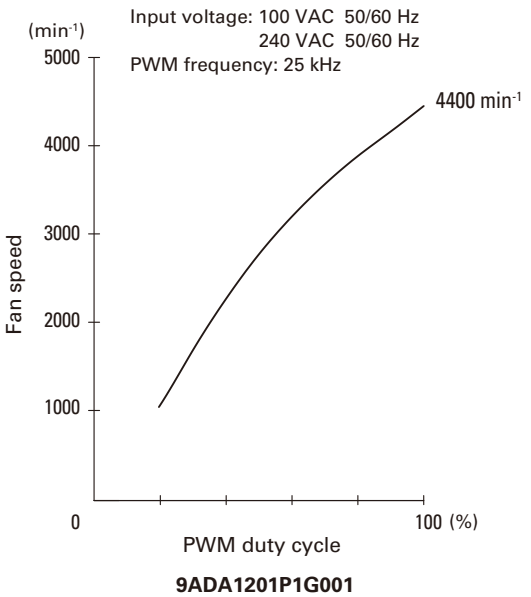


9ADA1201G1002



9ADA1201H1002

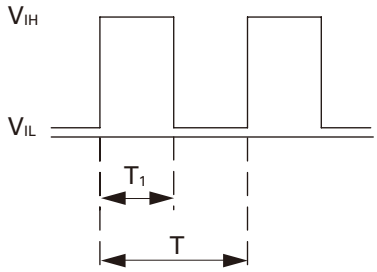
PWM Duty - Speed Characteristics Example



9ADA1201P1G001

PWM Input Signal Example

Input signal waveform



V_{IH} = 4.75 to 5.25 V V_{IL} = 0 to 0.4 V

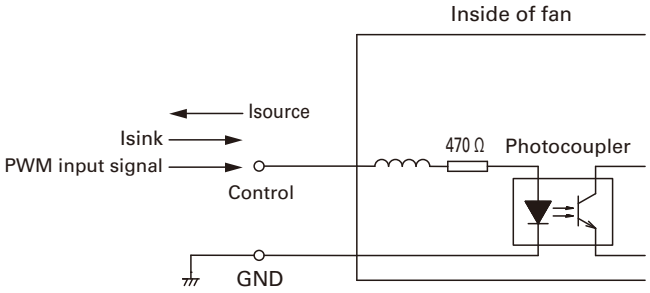
PWM duty cycle (%) = $\frac{T_1}{T} \times 100$ PWM frequency 25 (kHz) = $\frac{1}{T}$

Current source (Isource) = 1.0 mA max. (when control voltage is 0 V)

Current sink (Isink) = 10 mA max. (when control voltage is 5.25 V)

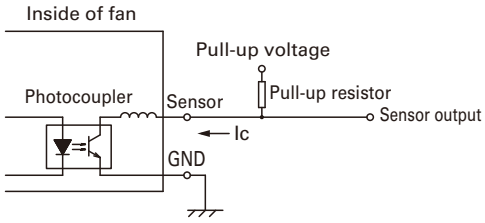
When the PWM control terminal is open,
the fan speed is the same as the speed at 0% PWM duty cycle.
A TTL input can be used for the PWM input signal.

Example of Connection Schematic



Specifications for Pulse Sensors

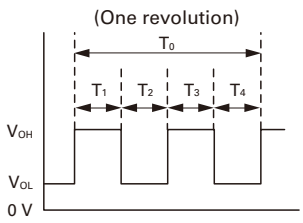
Output circuit: Open collector



V_{CE} = +60 V max.
Ic=10 mA max. [V_{OL}=V_{CE} (SAT)=1.2 V max.]

Output waveform (Need pull-up resistor)

In case of steady running

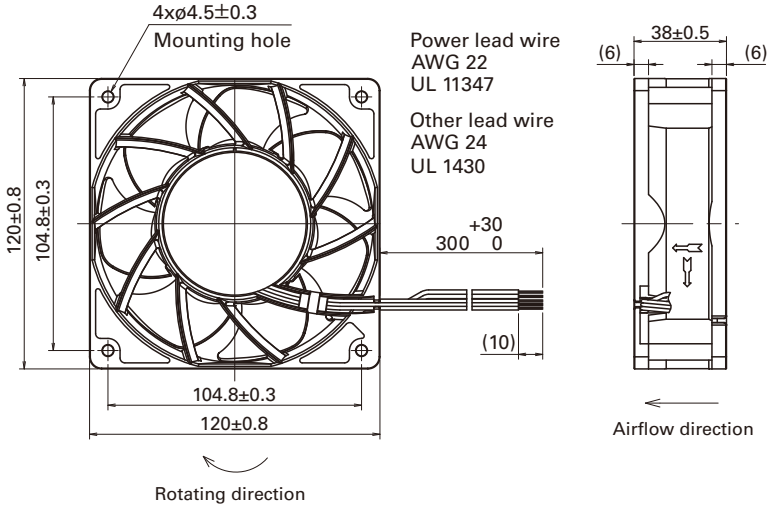


$T_{1\ to\ 4} \fallingdotseq (1/4)\ T_0$

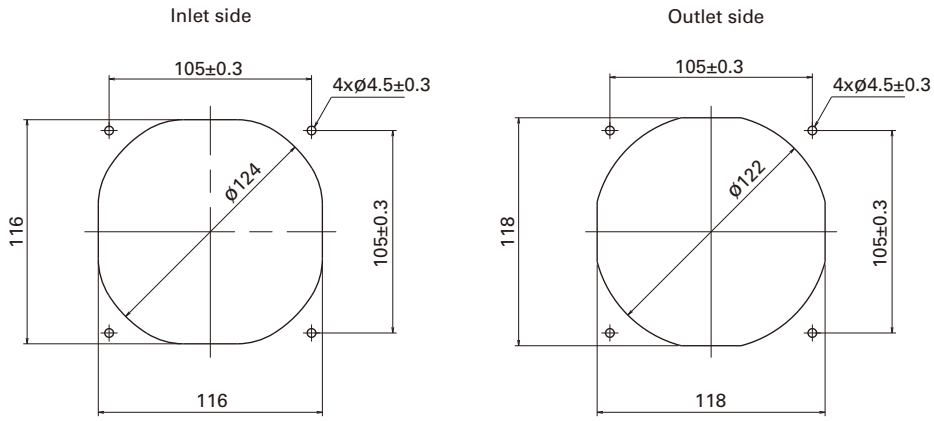
$T_{1\ to\ 4} \fallingdotseq (1/4)\ T_0 = 60/4N$ (s)

N=Fan speed (min^{-1})

Dimensions (unit: mm) (Ribbed frame with pulse sensor with PWM control function)



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



Options

Finger guards

Model no.: 109-019E, 109-019K, 109-019C, 109-019H

Resin filter kits

Model no.: 109-1000F13 (13PPI), 109-1000F20 (20PPI)
109-1000F30 (30PPI), 109-1000F-40 (40PPI)

Resin finger guards

Model no.: 109-1000G

Notice

- Please read the "Safety Precautions" on our website before using the product.
- The products shown in this catalog are subject to Japanese Export Control Law. Diversion contrary to the law of exporting country is prohibited.
- For protecting fan bearings against electrolytic corrosion near strong electromagnetic noise sources, we provide effective countermeasures such as Electrolytic Corrosion Proof Fans and EMC guards. Contact us for details.

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