



120×120×38 mm

San Ace 120AD 9ADAW 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 indoor free air at 60°C, rated voltage)
Expected life at 40°C is for reference only.
- Motor protection function Locked rotor burnout protection
For details, please refer to p. 616.
- Dielectric strength 50/60 Hz, 2500 VAC, for 1 second (between lead wire conductors and frame)
50/60 Hz, 1500 VAC, for 1 minute (between input lead wire (L, N) conductors and other lead wire conductors)
- 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 AC power input L: Orange N: Gray
Sensor Yellow Control Brown GND Black
- Mass 420 g
- Ingress protection IP68 For more information on IP rating, refer to p. 625.

Take safety measures not to touch this product (including lead wires) while the power is on.

Please ensure appropriate insulation within the final product because of functional insulation between input leads wire (L, N) and other lead wire conductors.

Specifications

The models listed below **have ribs and no sensor**. 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] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADAW1201H1002	100 to 240	90 to 264	50/60	0.13	6.6	3800	3.36 119	128 0.514	48	-20 to +70	60000/60°C (90000/40°C)

* Rated current ratings are the values at 100 V.

The models listed below **have ribs and a low-speed sensor**. 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] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADAW1201H1H001	100 to 240	90 to 264	50/60	0.13	6.6	3800	3.36 119	128 0.514	48	-20 to +70	60000/60°C (90000/40°C)

* Rated current ratings are the values at 100 V.

The models listed below **have ribs and a pulse sensor with PWM control**. 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 ⁽¹⁾ [%]	Rated current ⁽²⁾ [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]
9ADAW1201P1H001	100 to 240	90 to 264	50/60	100	0.13	6.6	3800	3.36 119	128 0.514	48	-20 to +70	60000/60°C (90000/40°C)
				25	0.04	1.4	1050	0.93 32.8	15 0.06	25		

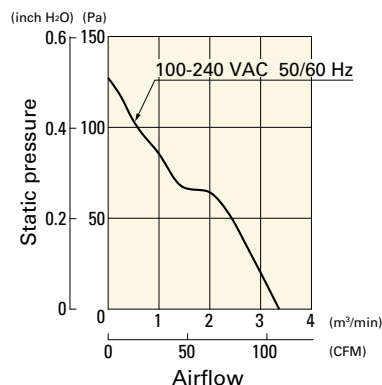
(1) PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 0% duty cycle.

(2) Rated current ratings are the values at 100 V.

Airflow - Static Pressure Characteristics

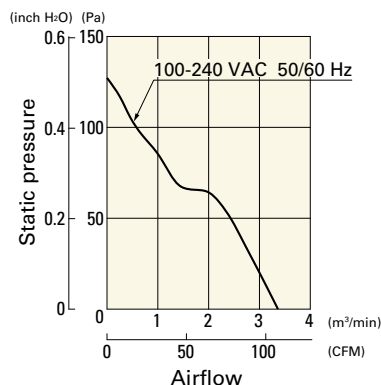
9ADAW1201H1002 No sensor

Operating voltage range



9ADAW1201H1H001 With low-speed sensor

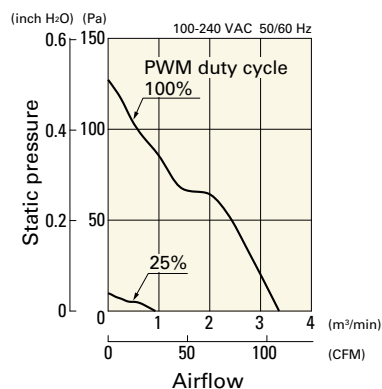
Operating voltage range



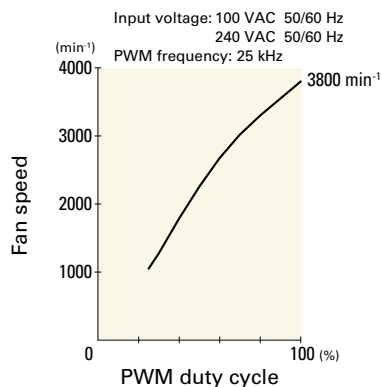
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADAW1201P1H001 With pulse sensor with PWM control

PWM duty cycle

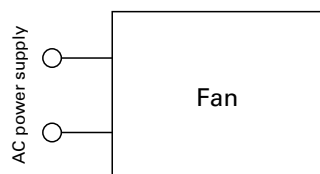


PWM duty - Speed characteristics example

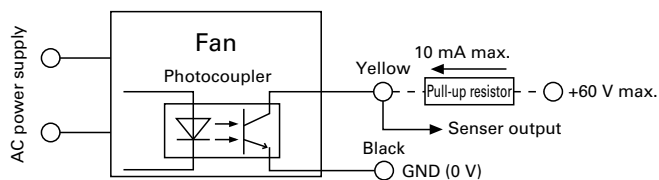


Connection Schematic

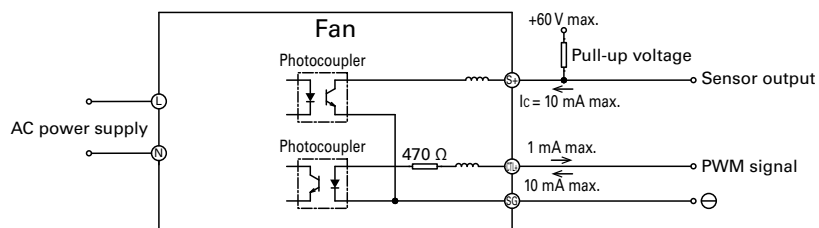
without Sensor



with Low-speed sensor



with PWM control and pulse sensor



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

