



# Ø 172x150x51 mm

San Ace 172AD 9ADW type     

Sidecut type

## General Specifications

- Material ..... Frame: Aluminum (Black coating), 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. 580.
- Dielectric strength ..... 50/60 Hz, 1500 VAC, for 1 minute (Lead wire model: between lead wire conductors and frame, terminal model: between terminals and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (Lead wire model: between lead wire conductors and frame, terminal model: between terminals 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 ..... 810 g
- Ingress protection ..... IP56

## Specifications

Lead wire model  
The models listed below **have pulse sensors with PWM control function.**

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADW5701P5H003	100 to 240	90 to 264	50/60	100	0.3	17	3800	6.7 236	195 0.78	54	-20 to +70	40000/60°C (70000/40°C)
				0	0.08	3.2	1500	2.64 93	40 0.16	31		

\* 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.

Terminal model  
The models listed below **have pulse sensors with PWM control function.**

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
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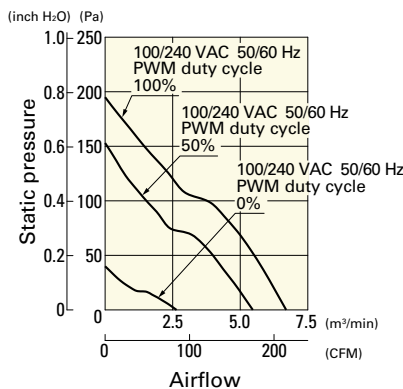
\* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 0% duty cycle.

Note: Sensor and control options are available for selection. Refer to the table on p. 621.

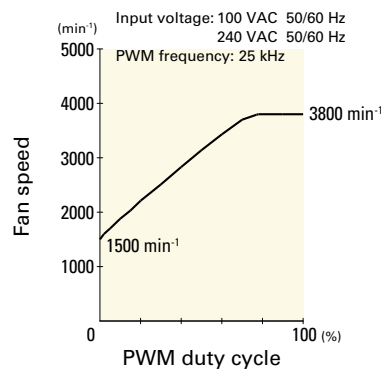
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9ADW5701P5H003** With pulse sensor with PWM control function

PWM duty cycle



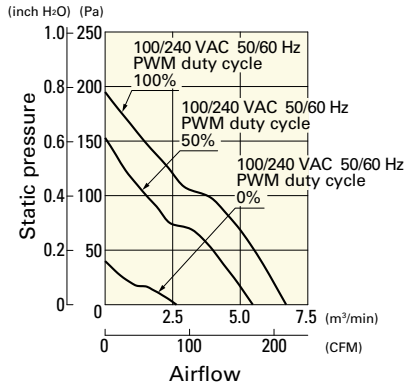
PWM duty - Speed characteristics example



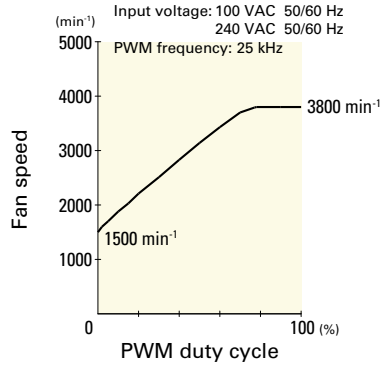
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADW5701P5HT03 With pulse sensor with PWM control function

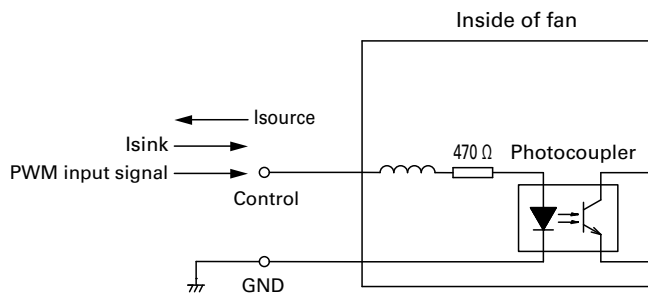
PWM duty cycle



PWM duty - Speed characteristics example

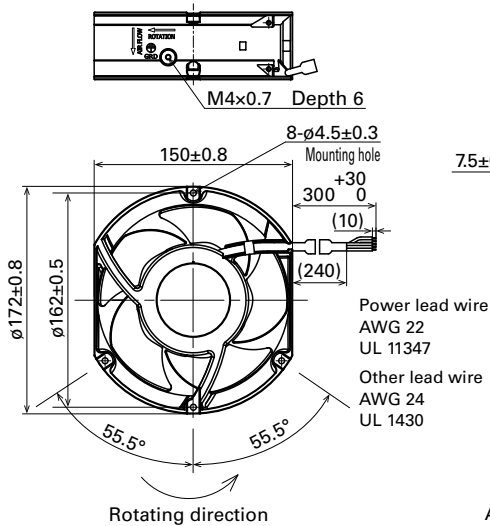


## Connection Schematic

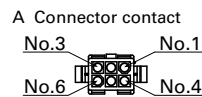
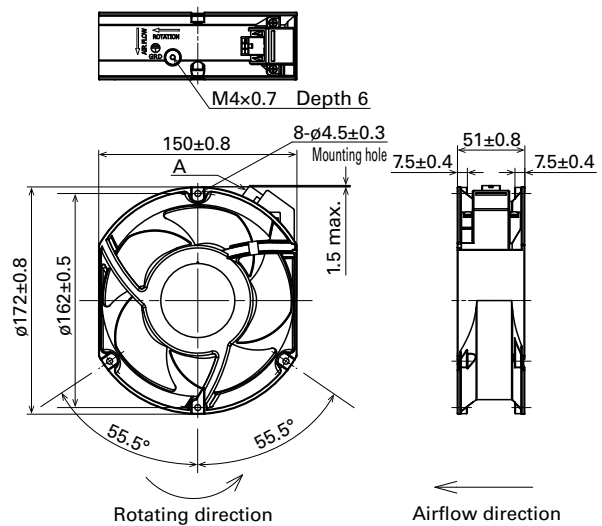


## Dimensions (unit: mm)

Lead wire model



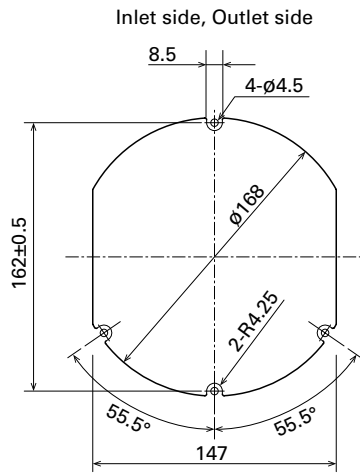
Terminal model



Pin arrangement  
Connector (Model no.: TE Connectivity: 794940-1)

Pin No.	Function	Input
1	L	AC
2	No connection	-
3	N	AC
4	PWM	DC
5	GND	DC
6	Sensor	DC

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



## Options

Finger guards

page: p. 566

Model no.: 109-319J, 109-319E, 109-319H, 109-320

Terminal model wiring harness

page: p. 576

Model no.: 489-1645