



Ø172x150x51 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. 616.
- 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 L: Orange N: Gray
 Yellow Brown Black
- Mass 810 g
- Ingress protection IP56 (Excluding the connectors of terminal models)
For more information on IP rating, refer to p. 625.

To display CE mark/UKCA mark on system, refer to p. 621.

Specifications

The models listed below **have no sensor**.

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	Rated current ⁽¹⁾ [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]	Max. static pressure [Pa] [inchH₂O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADW5701H5002 ⁽¹⁾	100 to 240	90 to 264	50/60	0.3	17	3800	6.7 236	195 0.78	54	-20 to +70	40000/60°C (70000/40°C)
9ADW5701H5T02 ⁽²⁾				0.3	17	3800	6.7 236	195 0.78	54		

(1) Lead wire model (2) Terminal model (3) Rated current ratings are the values at 100 V.

The models listed below **have a low-speed sensor**.

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	Rated current ⁽¹⁾ [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]	Max. static pressure [Pa] [inchH₂O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADW5701H5H001 ⁽¹⁾	100 to 240	90 to 264	50/60	0.3	17	3800	6.7 236	195 0.78	54	-20 to +70	40000/60°C (70000/40°C)
9ADW5701H5HT01 ⁽²⁾				0.3	17	3800	6.7 236	195 0.78	54		

(1) Lead wire model (2) Terminal model (3) Rated current ratings are the values at 100 V.

The models listed below **have a pulse sensor with PWM control**.

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	PWM duty cycle ⁽³⁾ [%]	Rated current ⁽⁴⁾ [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADW5701P5H003⁽¹⁾	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			
9ADW5701P5HT03⁽²⁾				100	0.3	17	3800	6.7	236	195	0.78	54		
				0	0.08	3.2	1500	2.64	93	40	0.16	31		

(1) Lead wire model (2) Terminal model

(3) 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.

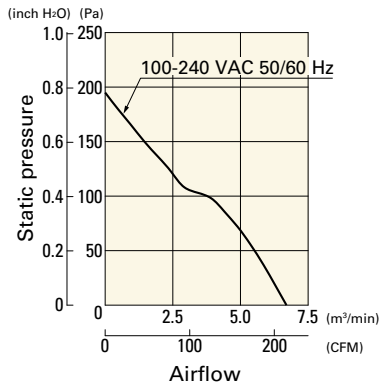
(4) Rated current ratings are the values at 100 V.

Airflow - Static Pressure Characteristics

9ADW5701H5002, 9ADW5701H5T02

No sensor

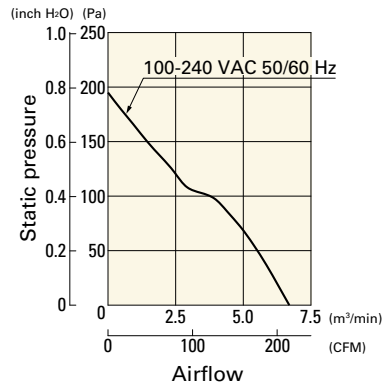
Operating voltage range



9ADW5701H5H001, 9ADW5701H5HT01

With low-speed sensor

Operating voltage range

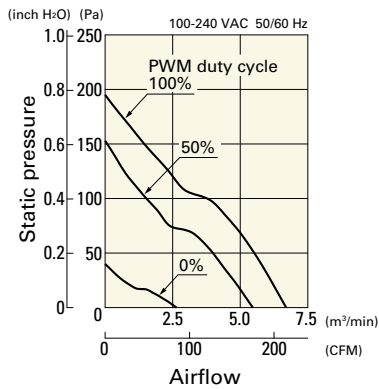


Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

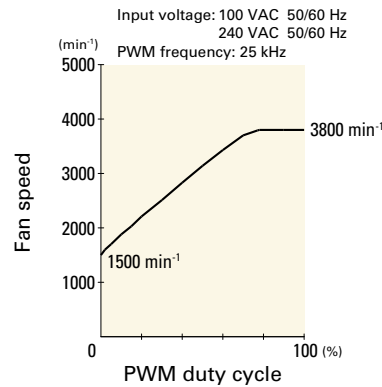
9ADW5701P5H003, 9ADW5701P5HT03

With pulse sensor with PWM control

PWM duty cycle

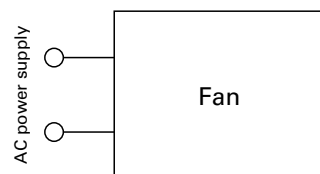


PWM duty - Speed characteristics example

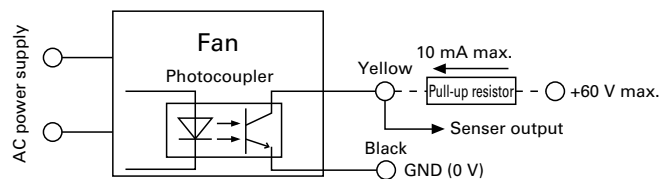


Connection Schematic

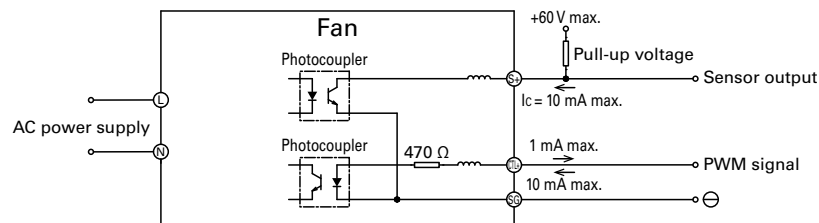
without Sensor



with Low-speed sensor

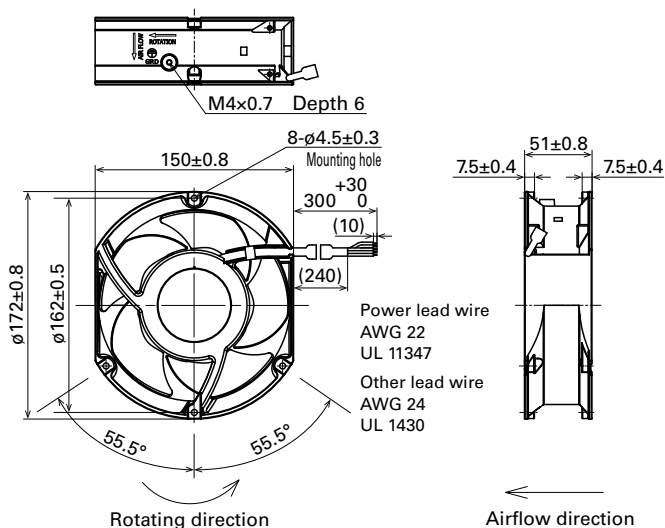


with PWM control and pulse sensor

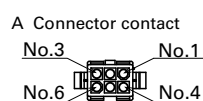
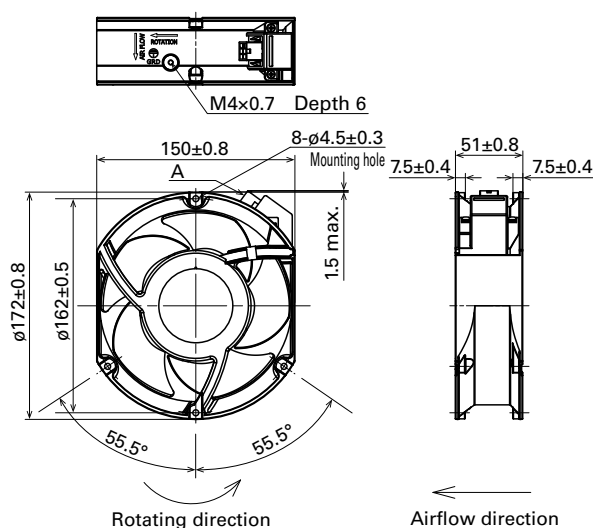


Dimensions (unit: mm) (With pulse sensor with PWM control)

Lead wire model



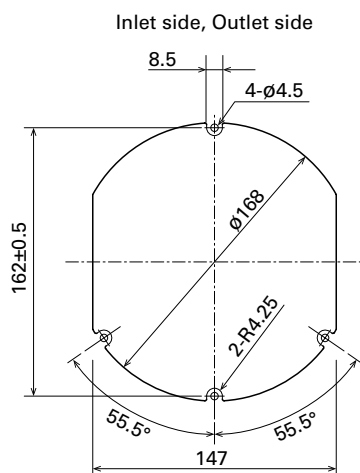
Terminal model



Pin assignment
Connector (Model no.: TE Connectivity: 1-172160-9)

Pin No.	Function	Type
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. 600

Model no.: 109-1155, 109-1155H

Terminal model wiring harness

page: p. 611

Compatible with a fan without sensor.

Model no.: 489-1648, 489-1651

Compatible with a fan with low-speed sensor,
and a fan with pulse sensor and PWM control.

Model no.: 489-1647, 489-1650