

Ø225×99 mm

San Ace 225AD 9ADTS type



General Specifications

- Material Motor case: Aluminum (Black coating), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in free air at 40°C, rated voltage)
- Motor protection function Locked rotor burnout protection, For details, please refer to p. 573.
- Dielectric strength 50/60 Hz, 1500 VAC, for 1 minute (between lead wire conductors and motor case)
- Insulation resistance 10 MΩ or more with a 500 VDC megger (between lead wire conductors and motor case)
- 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 Ground Yellow / Green
+10 VDC output Red ⊖Black Sensor Yellow Control Brown
- Mass 1800 g

Specifications When the optional inlet nozzle (109-1134) is mounted.

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

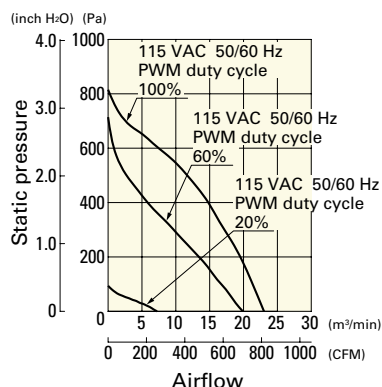
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADTS11P0G001	115	90 to 132	100	3.6	155	3200	23.0 812	815 3.27	74	-20 to +60	40000/40°C
			20	0.3	10	1000	7.1 252	80 0.32	50		
9ADTS11P0F001			100	1.6	70	2450	17.6 621	480 1.93	68		
			20	0.3	10	1000	7.1 252	80 0.32	50		
9ADTS23P0G001	230	180 to 264	100	2.0	155	3200	23.0 812	815 3.27	74		
			20	0.2	10	1000	7.1 252	80 0.32	50		
9ADTS23P0F001			100	0.9	70	2450	17.6 621	480 1.93	68		
			20	0.2	10	1000	7.1 252	80 0.32	50		

* PWM input frequency is 1 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

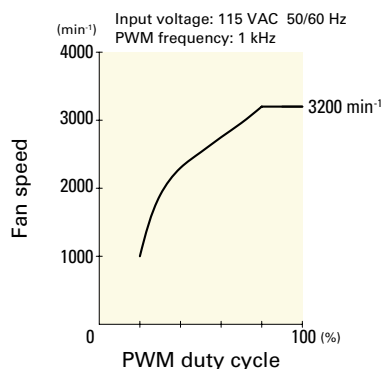
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADTS11P0G001 With pulse sensor with PWM control function

PWM duty cycle



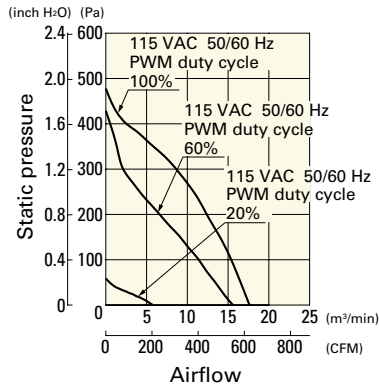
PWM duty - Speed characteristics example



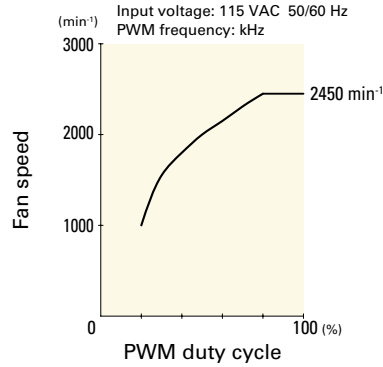
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADTS11P0F001 With pulse sensor with PWM control function

PWM duty cycle

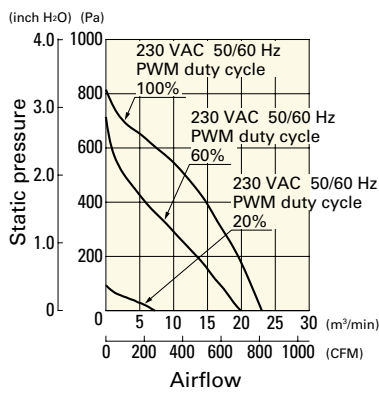


PWM duty - Speed characteristics example

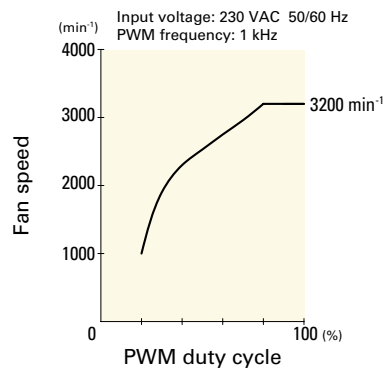


9ADTS23P0G001 With pulse sensor with PWM control function

PWM duty cycle

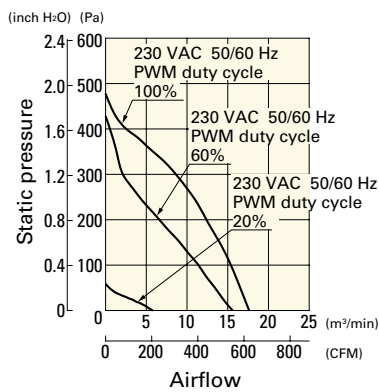


PWM duty - Speed characteristics example

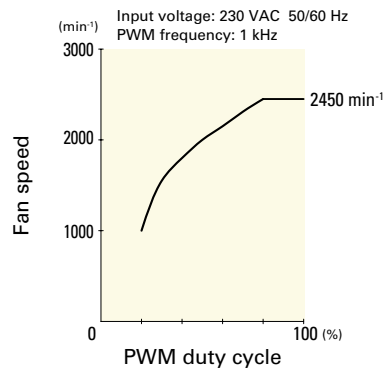


9ADTS23P0F001 With pulse sensor with PWM control function

PWM duty cycle



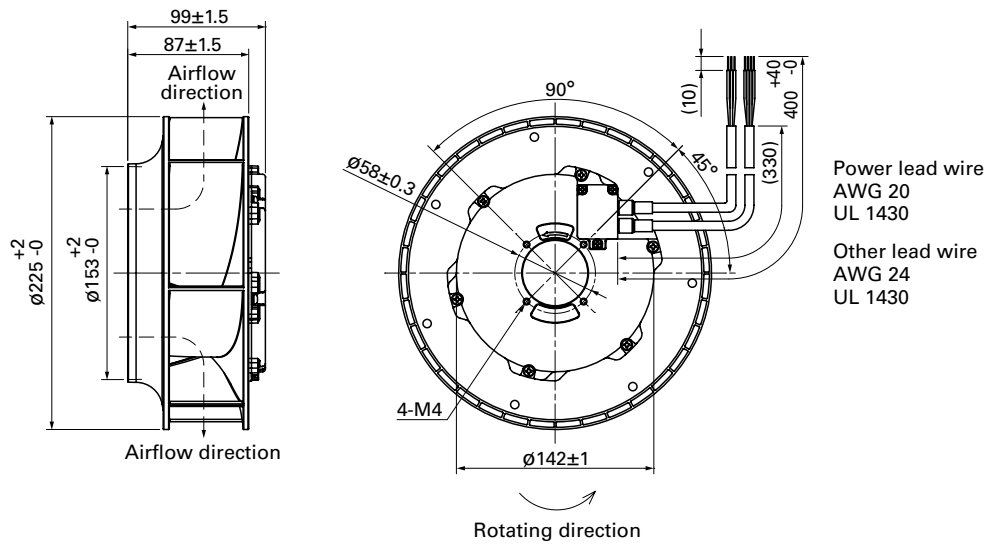
PWM duty - Speed characteristics example



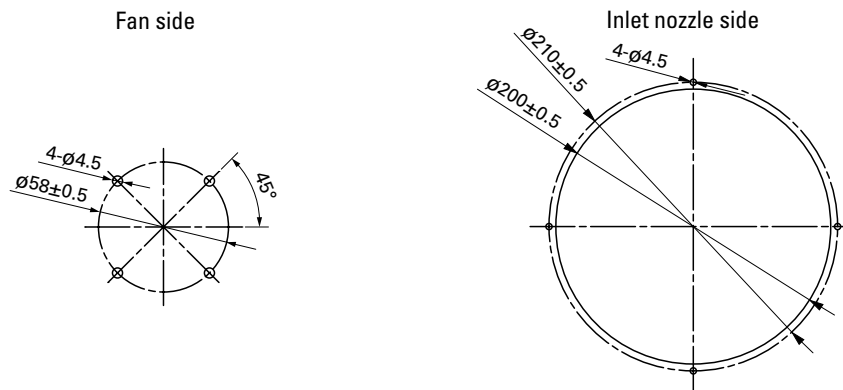
AC

ACDC Fan ø225 mm

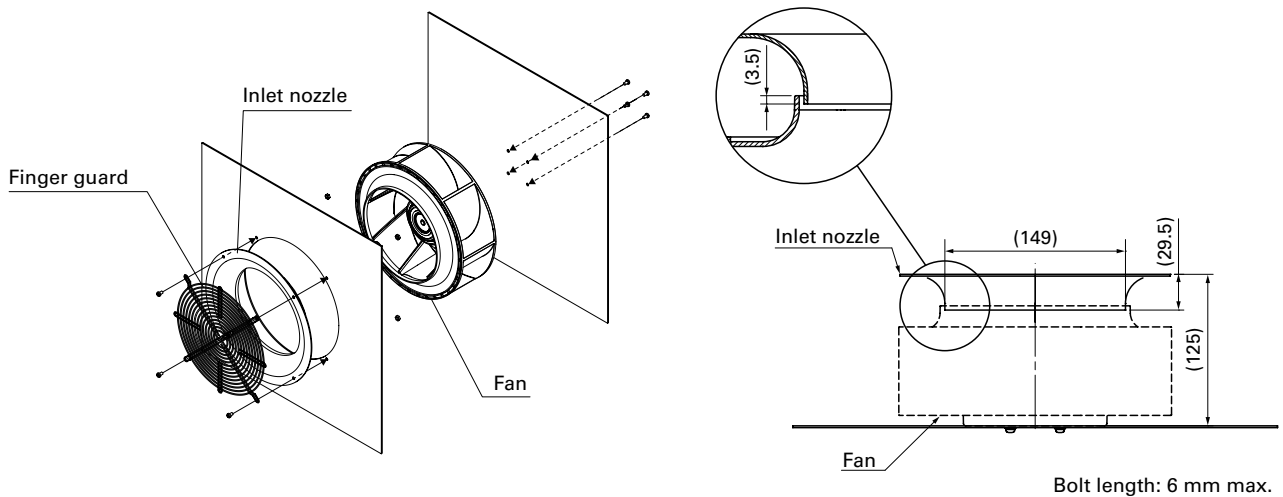
Dimensions (unit: mm)



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



Reference Diagram for Mounting



Options

Finger guards

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Model no.: 109-1137

Inlet nozzle

page: p. 563

Model no.: 109-1134

Ø225×99 mm

San Ace 225AD 9ADW1TS type



General Specifications

- Material Motor case: 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 40°C, rated voltage)
- Motor protection function Locked rotor burnout protection, Reverse polarity protection
For details, please refer to p. 573.
- Dielectric strength 50/60 Hz, 1500 VAC, for 1 minute (between lead wire conductors and motor case)
- Insulation resistance 10 MΩ or more with a 500 VDC megger (between lead wire conductors and motor case)
- 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	Ground	Yellow / Green
+10 VDC output	Red	Black	Sensor	Yellow
			Control	Brown
- Mass 1900 g
- Ingress protection IP56

Specifications When the optional inlet nozzle (109-1134H) is mounted.

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

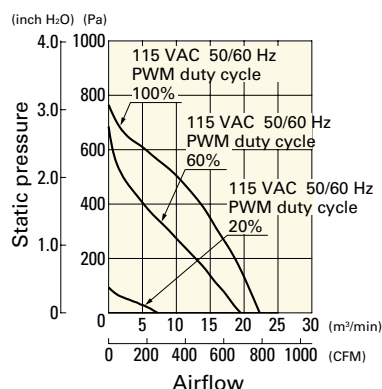
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADW1TS11P0H001	115	90 to 132	100	2.9	140	3100	22.3 787	760 3.05	73	-20 to +60	40000/40°C
			20	0.3	11	1000	7.1 252	80 0.32	50		
9ADW1TS11P0M001			100	1.4	61	2350	16.9 597	440 1.77	67		
			20	0.3	11	1000	7.1 252	80 0.32	50		
9ADW1TS23P0H001	230	180 to 264	100	1.9	140	3100	22.3 787	760 3.05	73		
			20	0.2	11	1000	7.1 252	80 0.32	50		
9ADW1TS23P0M001			100	0.8	61	2350	16.9 597	440 1.77	67		
			20	0.2	11	1000	7.1 252	80 0.32	50		

* PWM input frequency is 1 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

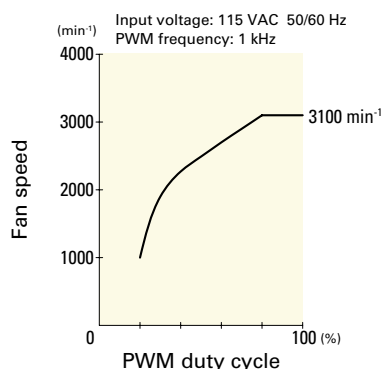
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADW1TS11P0H001 With pulse sensor with PWM control function

PWM duty cycle



PWM duty - Speed characteristics example



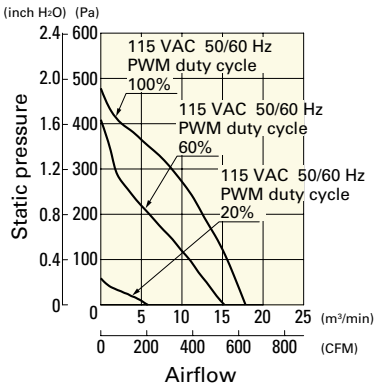
AC

ACDC Fan Ø225 mm

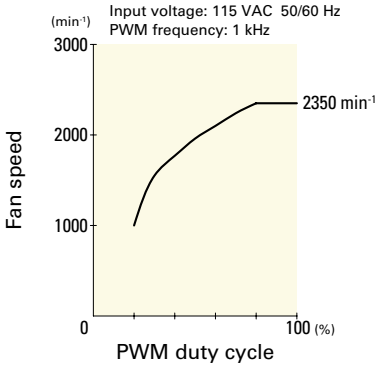
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADW1TS11P0M001 With pulse sensor with PWM control function

PWM duty cycle

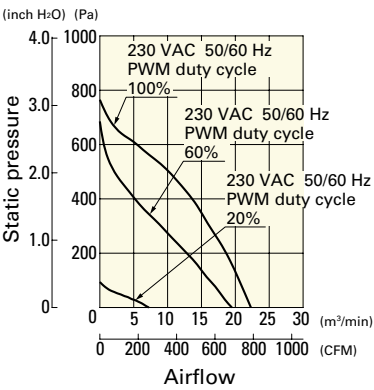


PWM duty - Speed characteristics example

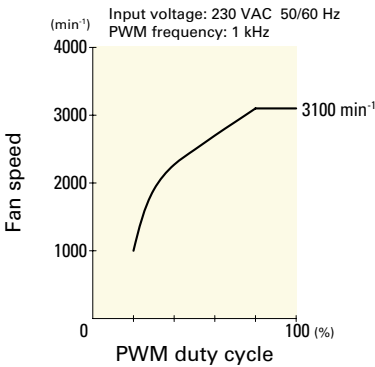


9ADW1TS23P0H001 With pulse sensor with PWM control function

PWM duty cycle

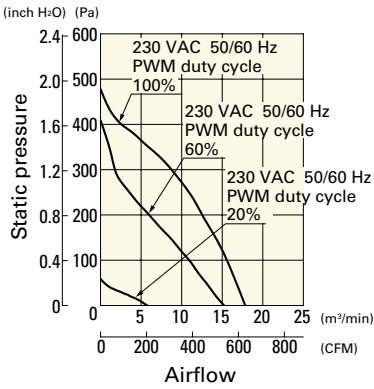


PWM duty - Speed characteristics example

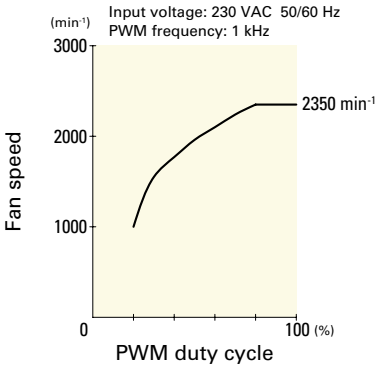


9ADW1TS23P0M001 With pulse sensor with PWM control function

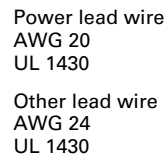
PWM duty cycle



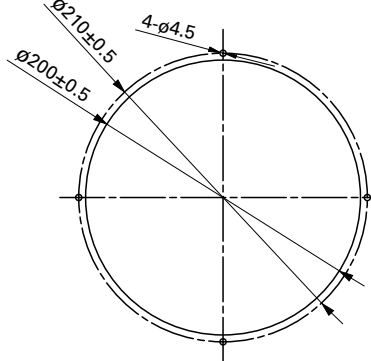
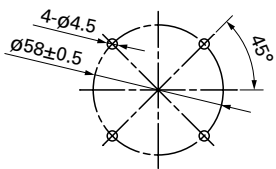
PWM duty - Speed characteristics example



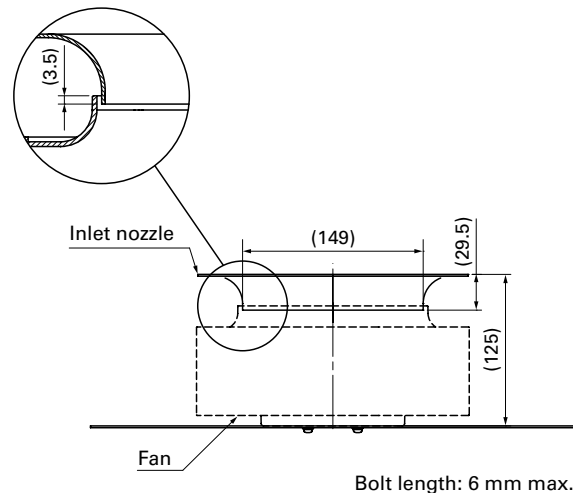
The side view technical drawing shows the profile of the diffuser assembly. It includes two horizontal dimensions at the top: 99 ± 1.5 mm for the total width and 87 ± 1.5 mm for the distance from the left face to the start of the internal vanes. Two vertical dimensions on the left indicate diameters: $\varnothing 225^{+2}_{-0}$ mm for the outer diameter and $\varnothing 153^{-0}_{+2}$ mm for the inner diameter. Dashed arrows labeled "Airflow direction" point horizontally through the center of the device.



Inlet nozzle side



This diagram illustrates the exploded view of a fan assembly. It features three main components: the **Inlet nozzle** at the top, the **Finger guard** on the left, and the **Fan** on the right. Dashed arrows indicate the assembly path, showing the fan being inserted into the inlet nozzle and the finger guard being attached to the front of the fan assembly.



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Model no.: 109-1134H