

Ø190x88 mm


San Ace 190AD 9ADTU 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 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 (between lead wire conductors and motor case)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors and motor case)
- 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	Ground	Yellow / Green
+10 VDC output	Red ⊖Black	Sensor	Yellow
		Control	Brown
- Mass 1600 g

Specifications When the optional inlet nozzle (109-1073) is mounted.

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

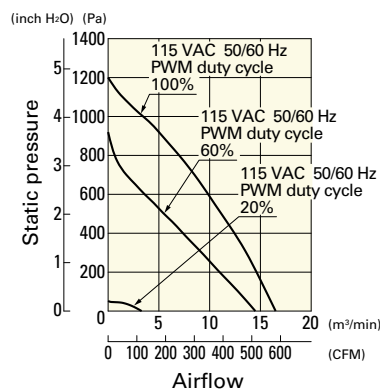
Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9ADTU11P0G001	115	90 to 132	50/60	100	2.5	150	4800	16.5	583	1200	4.82	72	-25 to +60	40000/60°C (70000/40°C)
9ADTU23P0G001	230	180 to 264		20	0.3	10	1000	3.3	116	52	0.21	43		
				100	1.3	150	4800	16.5	583	1200	4.82	72		
				20	0.2	10	1000	3.3	116	52	0.21	43		

* PWM frequency is 1 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 100% duty cycle.

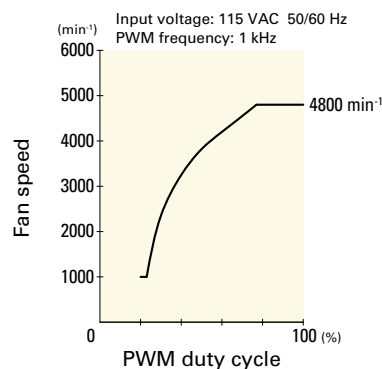
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9ADTU11P0G001 With pulse sensor with PWM control function

PWM duty cycle

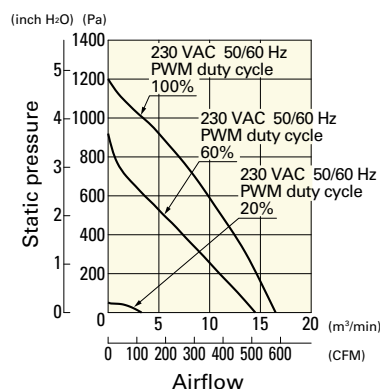


PWM duty - Speed characteristics example

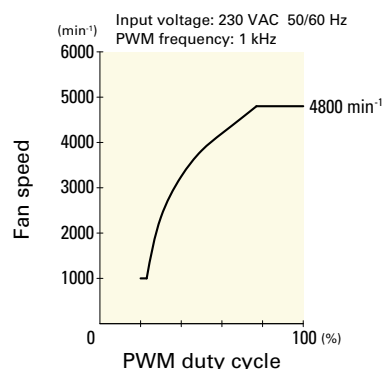


9ADTU23P0G001 With pulse sensor with PWM control function

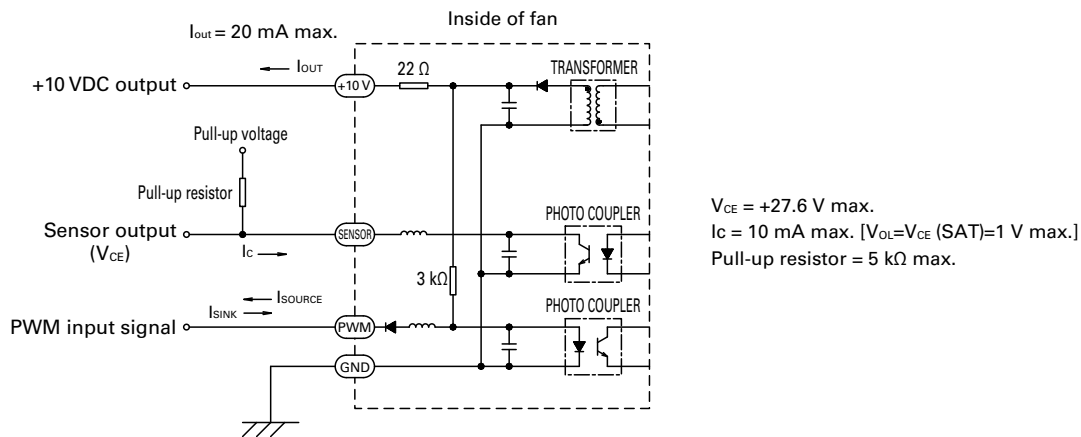
PWM duty cycle



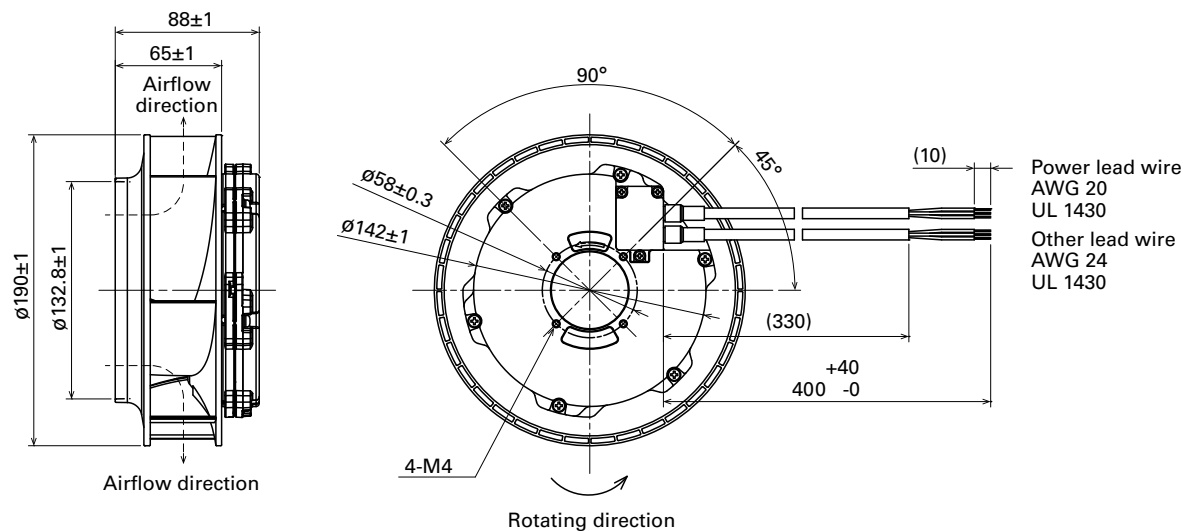
PWM duty - Speed characteristics example



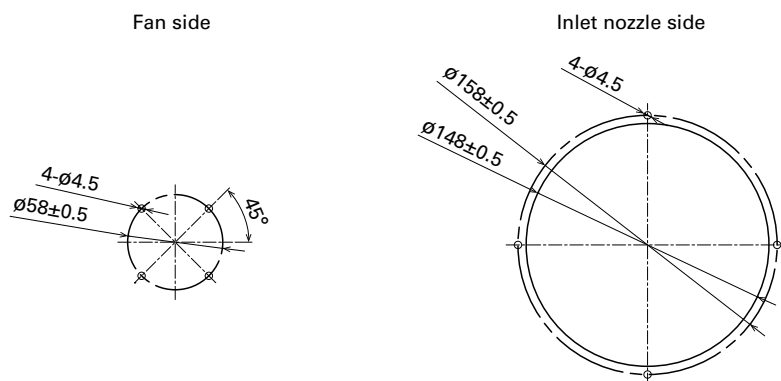
Connection Schematic



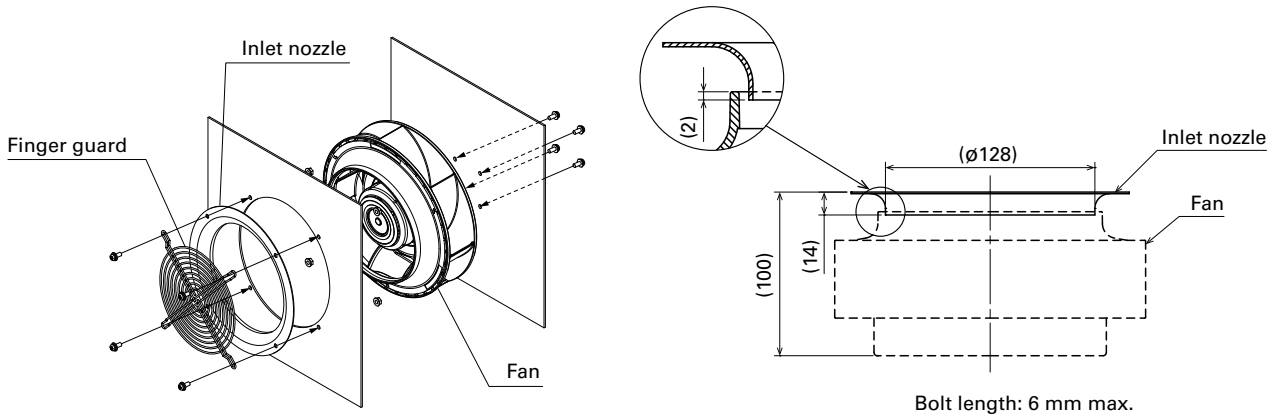
Dimensions (unit: mm)



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



Reference Diagram for Mounting (unit: mm)



Options

Finger guards page: p. 565
Model no.: 109-722, 109-722H

Inlet nozzle page: p. 569
Model no.: 109-1073, 109-1073H