

∅ 175x69 mm



San Ace C175 9TG type us

General Specifications

- Material Motor case: Aluminum, 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, Reverse polarity protection For details, please refer to p. 614.
- Dielectric strength 50/60 Hz, 500 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 ⊕Red ⊖Black Sensor Yellow Control Brown
- Mass 750 g

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

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

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]
9TG24P0G01	24	20.4 to 27.6	100	3.9	93.6	4700	14.0 494.7	885 3.55	73	-20 to +60	40000/60°C (70000/40°C)
9TG24P0S01			100	2.35	56.4	3900	11.6 409.8	609 2.45	69		
9TG48P0G01	48	36 to 55.2	100	1.95	93.6	4700	14.0 494.7	885 3.55	73	-20 to +70	

* 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 100% duty cycle.

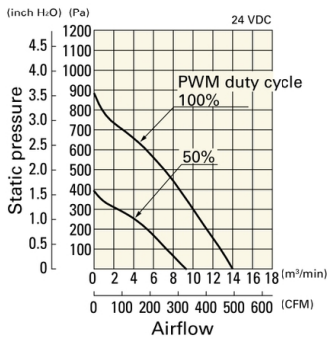
Note 1: Max input is 130 W at rated voltage.

Note 2: Sensor and control options are available for selection. Refer to the table on p. 653.

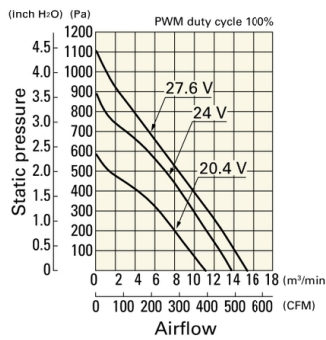
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9TG24P0G01 With pulse sensor with PWM control

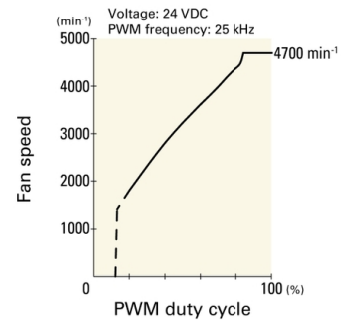
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example

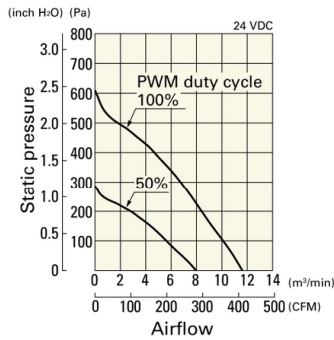


DC Centrifugal Fan ∅175 mm

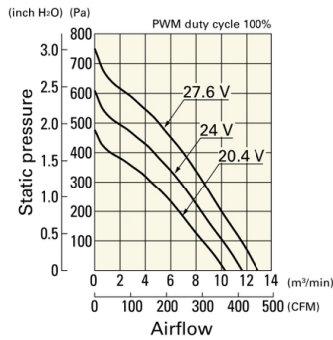
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9TG24P0S01 With pulse sensor with PWM control

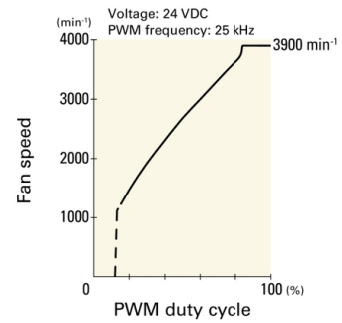
PWM duty cycle



Operating voltage range

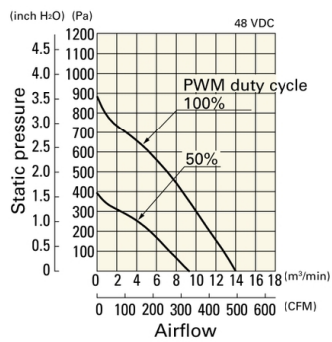


PWM duty - Speed characteristics example

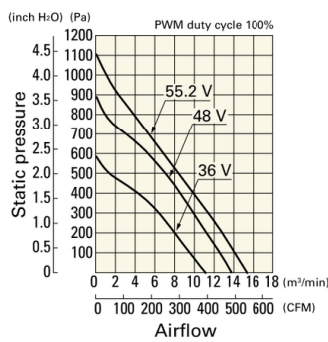


9TG48P0G01 With pulse sensor with PWM control

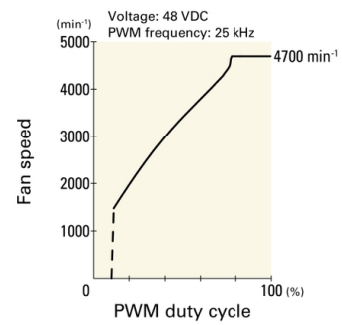
PWM duty cycle



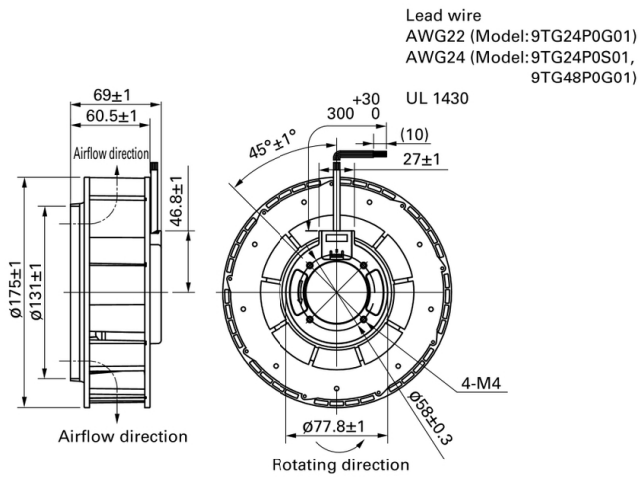
Operating voltage range



PWM duty - Speed characteristics example

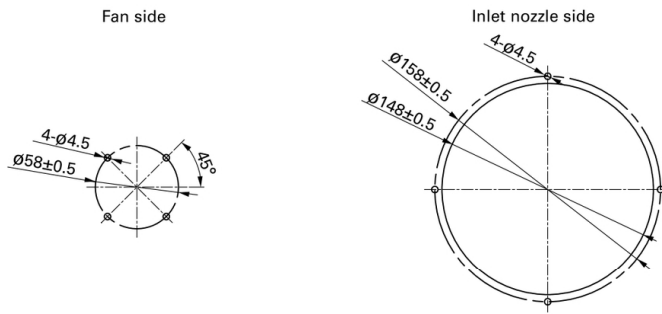


Dimensions (unit: mm)

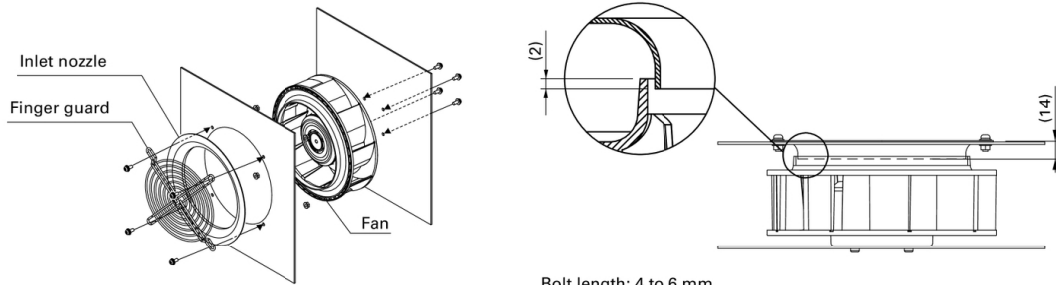


DC
Centrifugal Fan Ø175 mm

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



Reference Diagram for Mounting (unit: mm)



Bolt length: 4 to 6 mm.
To prevent bolts from loosening, use plain washers and spring washers.

DC

Centrifugal Fan \varnothing 175 mm

Options

Finger guards page: p. 599
Model no.: 109-722, 109-722H

Inlet nozzle page: p. 603
Model no.: 109-1073, 109-1073H