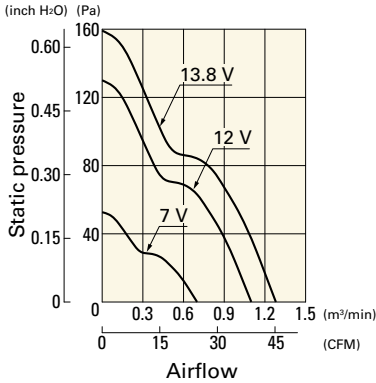


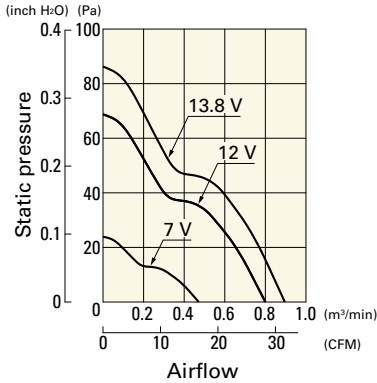
9RA0612J4001 With pulse sensor

Operating voltage range



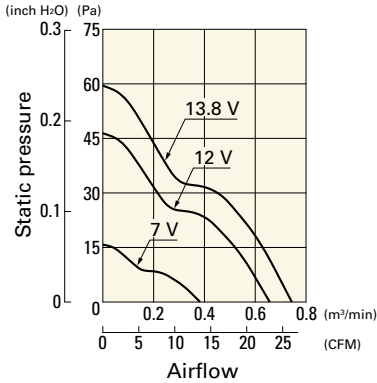
9RA0612G4001 With pulse sensor

Operating voltage range



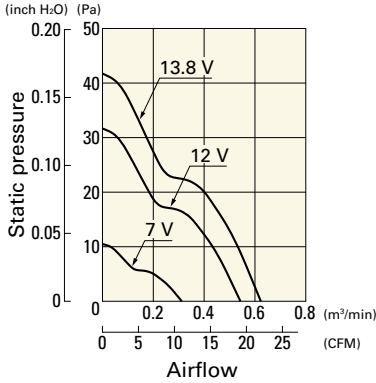
9RA0612S4001 With pulse sensor

Operating voltage range



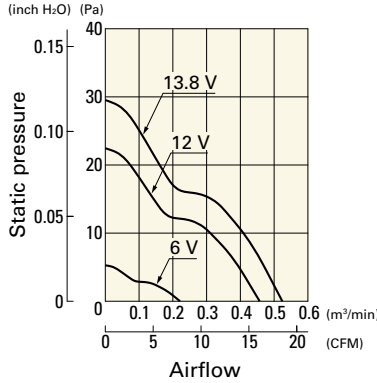
9RA0612H4001 With pulse sensor

Operating voltage range



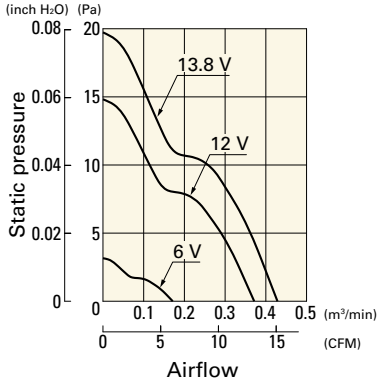
9RA0612F4001 With pulse sensor

Operating voltage range



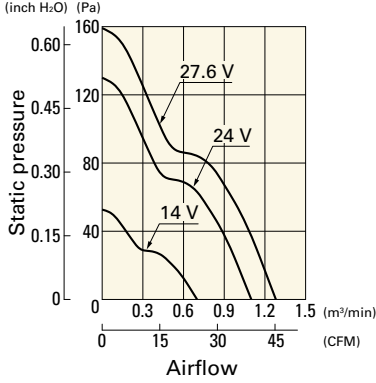
9RA0612M4001 With pulse sensor

Operating voltage range



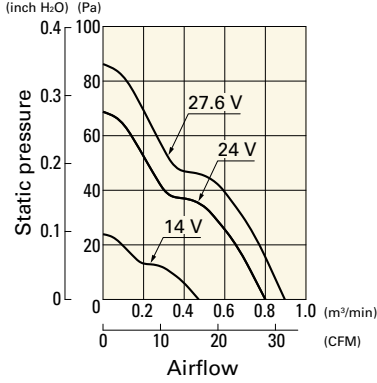
9RA0624J4001 With pulse sensor

Operating voltage range



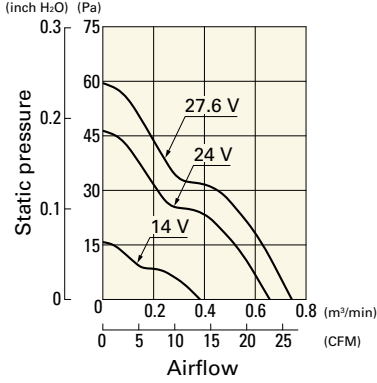
9RA0624G4001 With pulse sensor

Operating voltage range



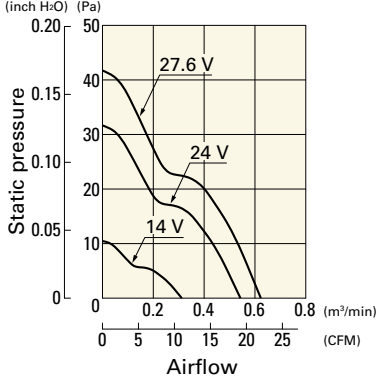
9RA0624S4001 With pulse sensor

Operating voltage range



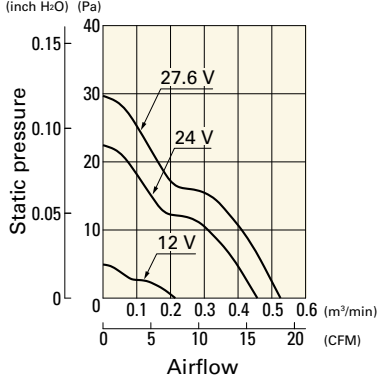
9RA0624H4001 With pulse sensor

Operating voltage range



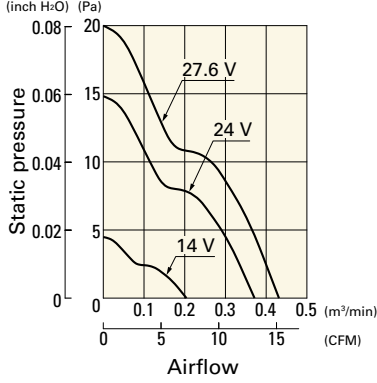
9RA0624F4001 With pulse sensor

Operating voltage range



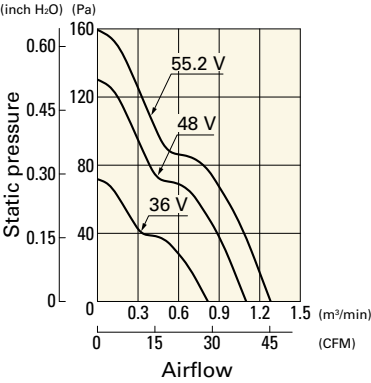
9RA0624M4001 With pulse sensor

Operating voltage range



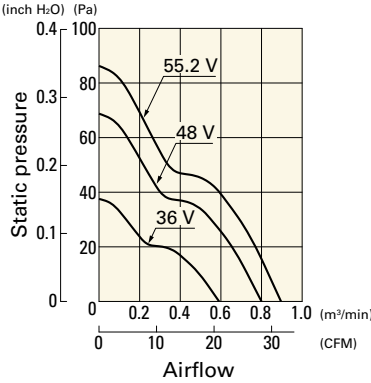
9RA0648J4001 With pulse sensor

Operating voltage range

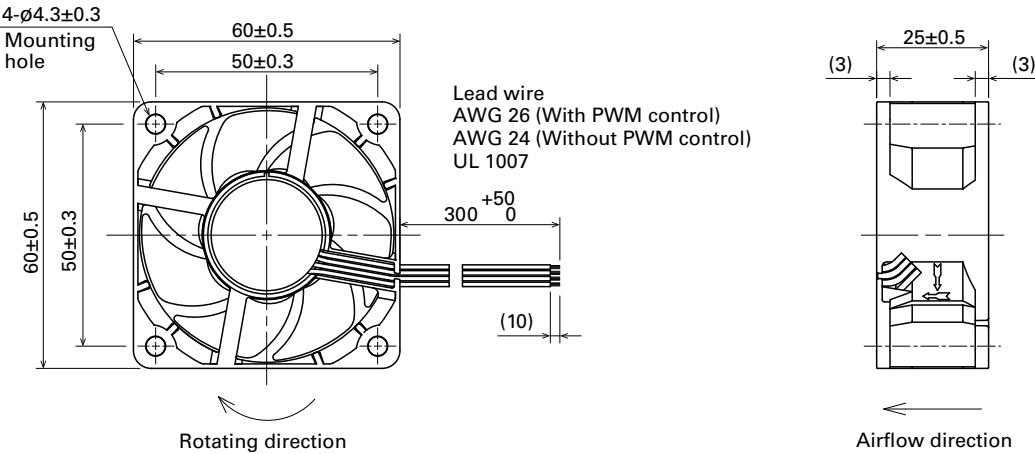


9RA0648G4001 With pulse sensor

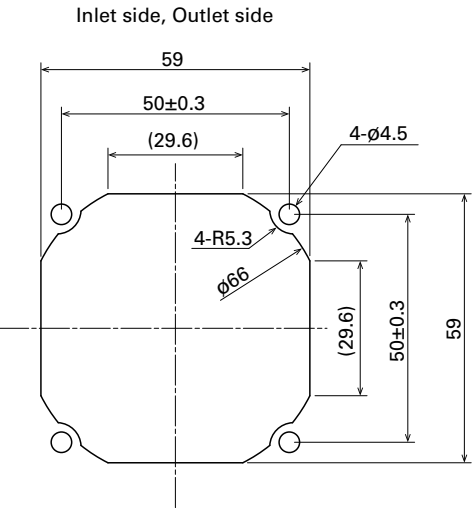
Operating voltage range



Dimensions (unit: mm) (Ribbed frame with pulse sensor with PWM control)



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



Options

Finger guards page: p. 598
Model no.: 109-139E, 109-139H

Resin finger guards page: p. 605
Model no.: 109-1003G

Resin filter kits page: p. 606
Model no.: 109-1003F13 (13PPI), 109-1003F20 (20PPI),
109-1003F30 (30PPI), 109-1003F40 (40PPI)

60×60×25 mm

San Ace 60 9S type Silent Fan 



General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- 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. 616.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors 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 ⊕Red ⊖Black ☐Sensor ☐Yellow
- Mass 55 g

Specifications

The models listed below **have ribs and a pulse sensor**. For models without ribs, append "1" to the end of model numbers.

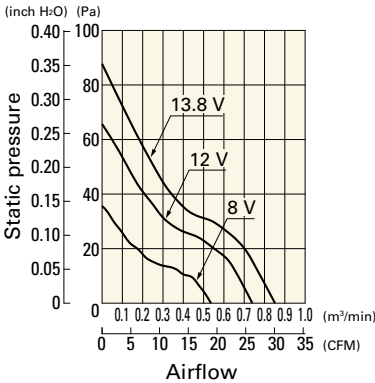
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9S0612S401	12	8 to 13.8	0.2	2.4	5000	0.74 26.1	65.7 0.26	31	-10 to +70	40000/60°C (70000/40°C)
9S0612H401			0.11	1.32	3900	0.58 20.5	40.0 0.16	24		
9S0612F401			0.08	0.96	3300	0.49 17.3	29.3 0.12	20		
9S0612M401			0.07	0.84	2700	0.4 14.1	19.7 0.08	16		

Note: Sensor and control options are available for selection. Refer to the table on p. 659.

Airflow - Static Pressure Characteristics

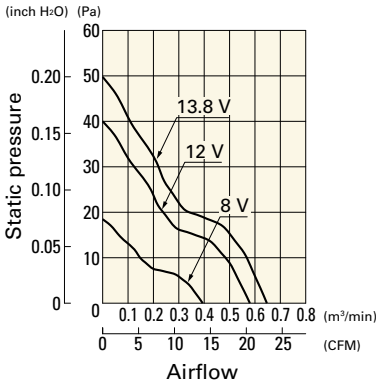
9S0612S401 With pulse sensor

Operating voltage range



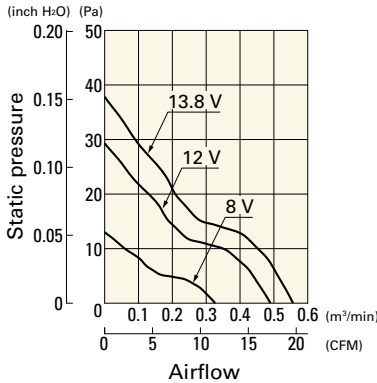
9S0612H401 With pulse sensor

Operating voltage range



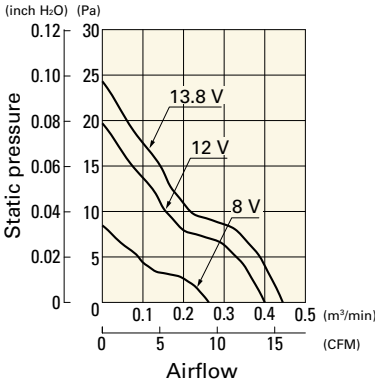
9S0612F401 With pulse sensor

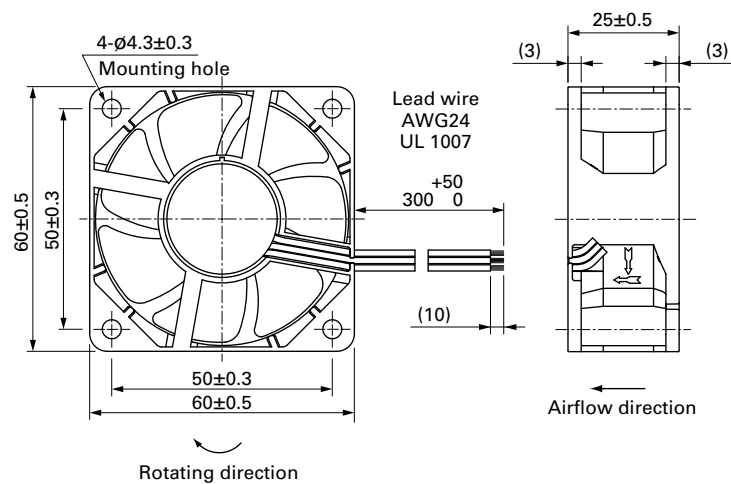
Operating voltage range



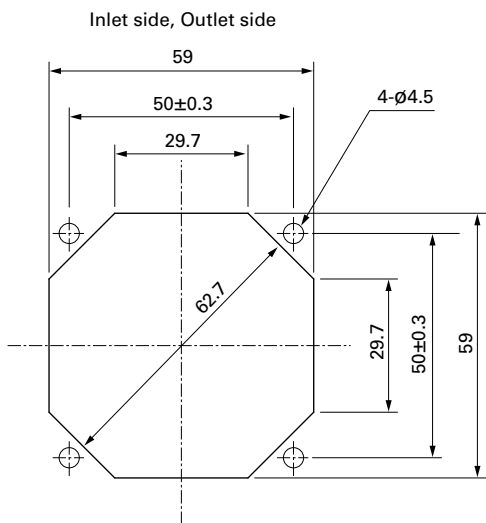
9S0612M401 With pulse sensor

Operating voltage range





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



Options

Finger guards page: p. 598

Model no.: 109-139E, 109-139H

Resin finger guards page: p. 605

Model no.: 109-1003G

Resin filter kits page: p. 606

Model no.: 109-1003F13 (13PPI), 109-1003F20 (20PPI),
109-1003F30 (30PPI), 109-1003F40 (40PPI)

60×60×38 mm

San Ace 60 9HVA type  



General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- 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. 616.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors 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 ⊕Red ⊖Black Sensor Yellow Control Brown
- Mass 130 g

Specifications

The models listed below **have ribs and a pulse sensor with PWM control**. For models without ribs, append "1" to the end of model numbers.

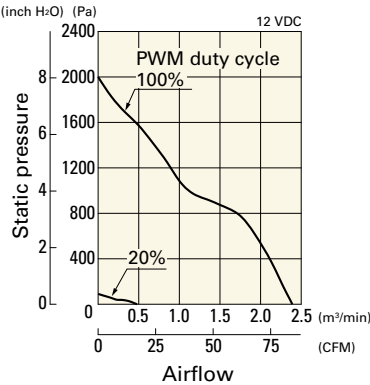
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9HVA0612P1J001	12	10.8 to 13.2	100	2.8	33.6	24800	2.39 84.3	2000 8.0	68	-20 to +70	40000/60°C (70000/40°C)
			20	0.11	1.32	5200	0.48 16.9	91 0.36	34		

* 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.

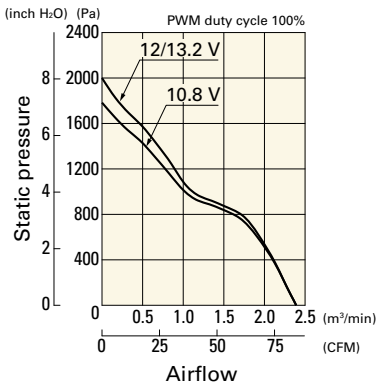
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9HVA0612P1J001 With pulse sensor with PWM control

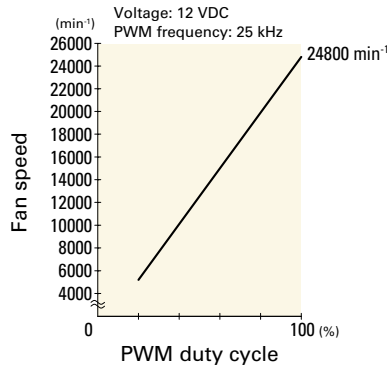
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



Dimensions (unit: mm) (With ribs)

