

92x92x25 mm

San Ace 92 9HV 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. 580.
- 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 150 g

Specifications

The models listed below **have ribs and pulse sensors with PWM control function.** 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]
▶▶ 9HV0912P4G001	12	10.2 to 13.8	100	1.23	14.76	7350	3.35 118	280 1.12	56	-20 to +70	40000/60°C (70000/40°C)
			20	0.12	1.44	2200	1.0 35.3	25 0.1	26		
▶▶ 9HV0912P4H001	12	10.2 to 13.8	100	0.71	8.52	6050	2.75 97.1	190 0.76	52		
			20	0.07	0.84	1700	0.77 27.2	15 0.06	20		
▶▶ 9HV0924P4G001	24	20.4 to 27.6	100	0.61	14.64	7350	3.35 118	280 1.12	56		
			20	0.06	1.44	2200	1.0 35.3	25 0.1	26		
▶▶ 9HV0924P4H001	24	20.4 to 27.6	100	0.38	9.12	6050	2.75 97.1	190 0.76	52		
			20	0.05	1.2	1700	0.77 27.2	15 0.06	20		

* 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.

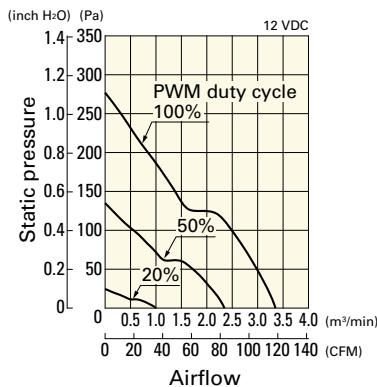
Note 1: Sensor and control options are available for selection. Refer to the table on p. 612.

Note 2: The ▶▶ mark indicates Short LeadTime Service applicable models. See p. 630 for details.

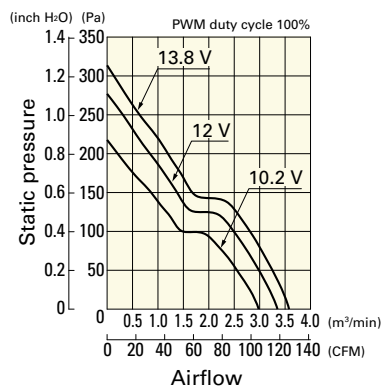
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9HV0912P4G001 With pulse sensor with PWM control function

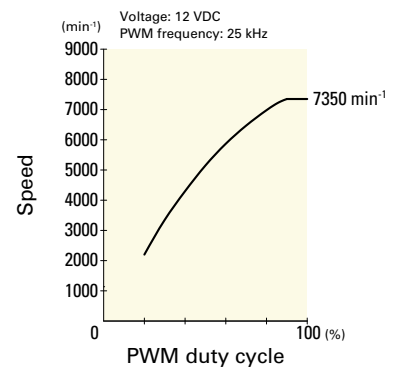
PWM duty cycle



Operating voltage range



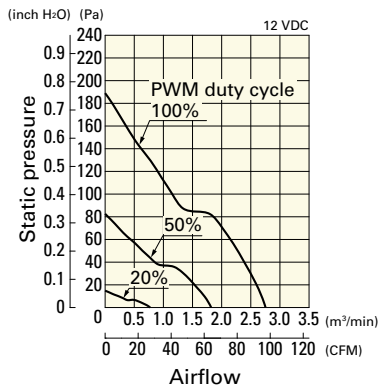
PWM duty - Speed characteristics example



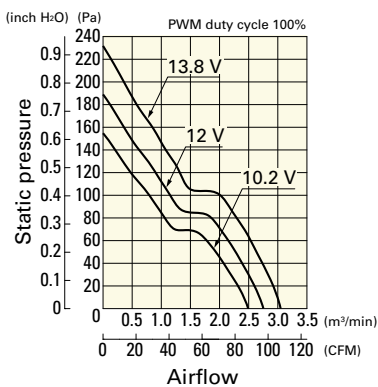
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9HV0912P4H001 With pulse sensor with PWM control function

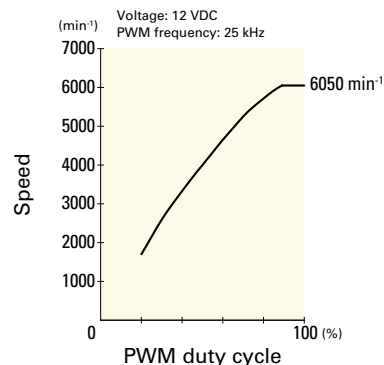
PWM duty cycle



Operating voltage range

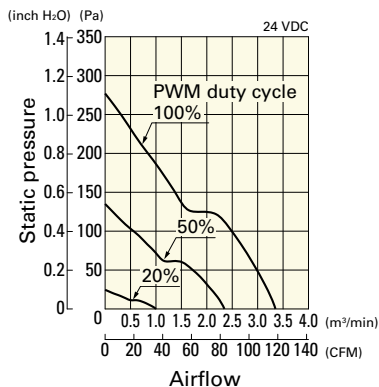


PWM duty - Speed characteristics example

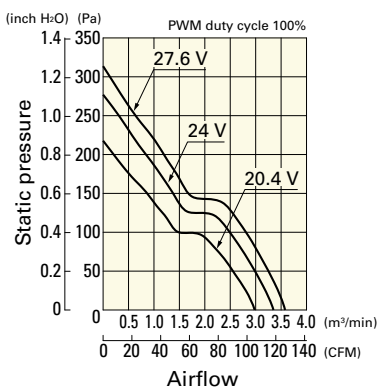


9HV0924P4G001 With pulse sensor with PWM control function

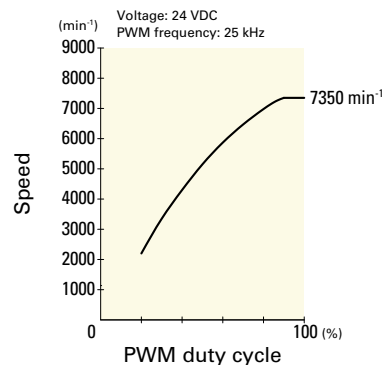
PWM duty cycle



Operating voltage range

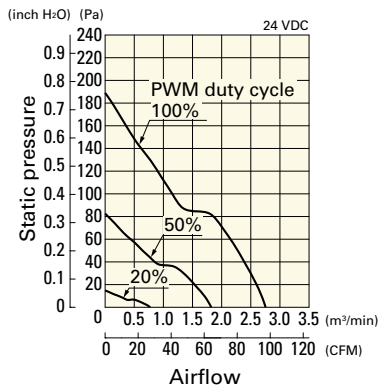


PWM duty - Speed characteristics example

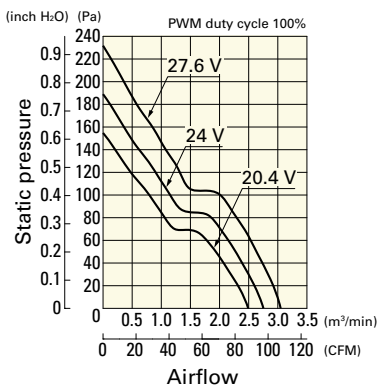


9HV0924P4H001 With pulse sensor with PWM control function

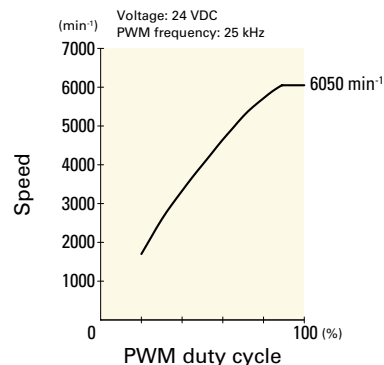
PWM duty cycle



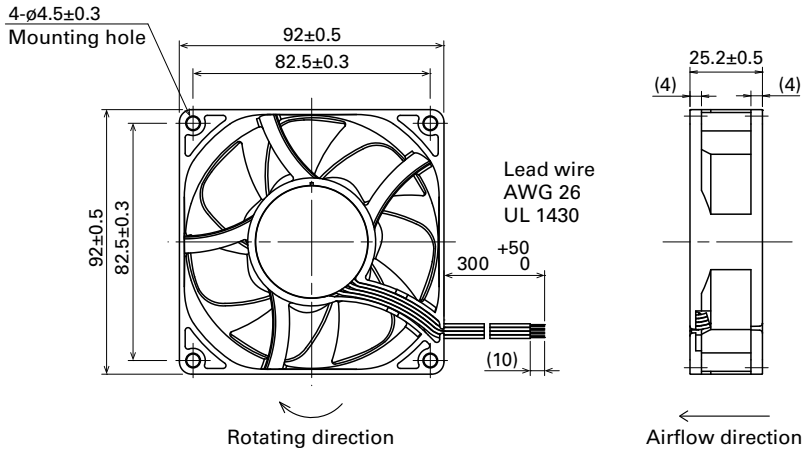
Operating voltage range



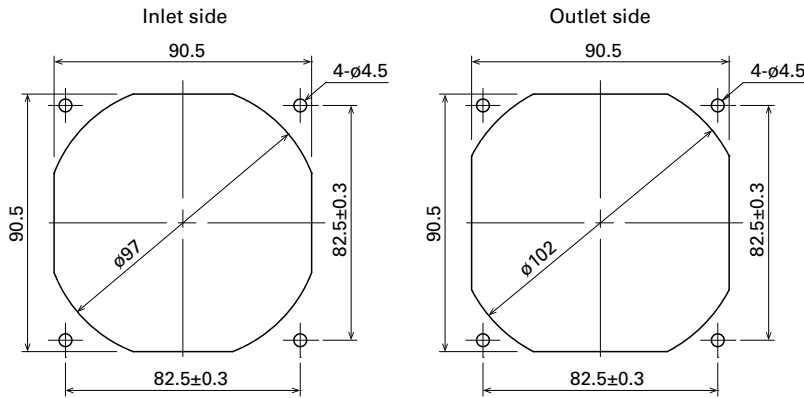
PWM duty - Speed characteristics example



Dimensions (unit: mm) (With ribs)



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



Options

Finger guards

page: p. 564

Model no.: 109-099E, 109-099H, 109-099C

Resin finger guards

page: p. 571

Model no.: 109-1001G

Resin filter kits

page: p. 572

Model no.: 109-1001F13 (13PPI), 109-1001F20 (20PPI),
109-1001F30 (30PPI), 109-1001F40 (40PPI)