92×92×38 mm

San Ace 92W 9WL type

IP68



General Specifications

- Material ..... Frame: Aluminum (Black coating), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in indoor 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. 573.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- 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 ..... 300 g
- Ingress protection IP68

Specifications

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

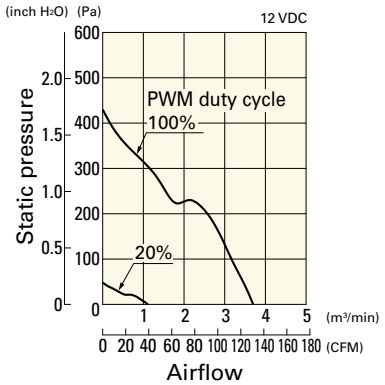
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WL0912P1H001	12	10.2 to 13.2	100	1.9	22.8	9000	3.7	130.6	430	1.72	61	-20 to +70	100000/60°C (135000/40°C)
			20	0.13	1.56	2700	1.11	39.1	48.0	0.19	30		
9WL0912P1F001			100	0.95	11.4	7000	2.9	102.4	263	1.05	55		
			20	0.1	1.2	2000	0.83	29.3	26.3	0.1	22		
9WL0924P1H001	24	20.4 to 26.4	100	0.95	22.8	9000	3.7	130.6	430	1.72	61		
			20	0.07	1.68	2700	1.11	39.1	48.0	0.19	30		
9WL0924P1F001			100	0.5	12	7000	2.9	102.4	263	1.05	55		
			20	0.06	1.44	2000	0.83	29.3	26.3	0.1	22		
9WL0948P1H601	48	40.8 to 52.8	100	0.48	23.04	9000	3.7	130.6	430	1.72	61		
			20	0.05	2.4	2700	1.11	39.1	48.0	0.19	30		
9WL0948P1F601			100	0.24	11.52	7000	2.9	102.4	263	1.05	55		
			20	0.05	2.4	2000	0.83	29.3	26.3	0.1	22		

* PWM input frequency is 25 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

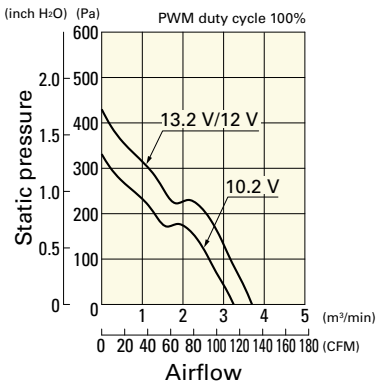
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0912P1H001 With pulse sensor with PWM control function

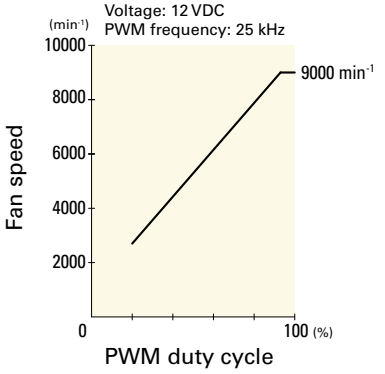
PWM duty cycle



Operating voltage range



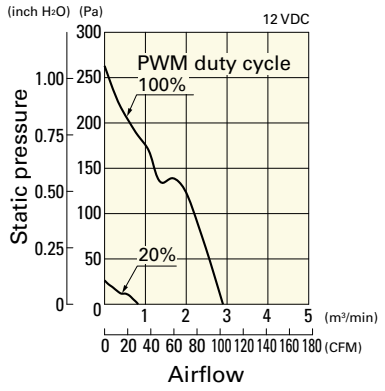
PWM duty - Speed characteristics example



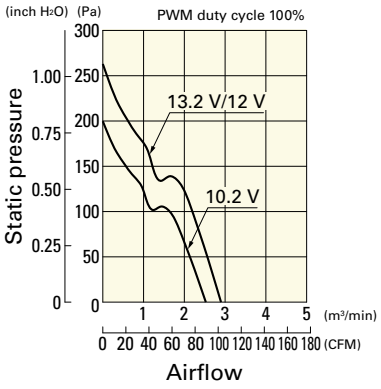
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0912P1F001 With pulse sensor with PWM control function

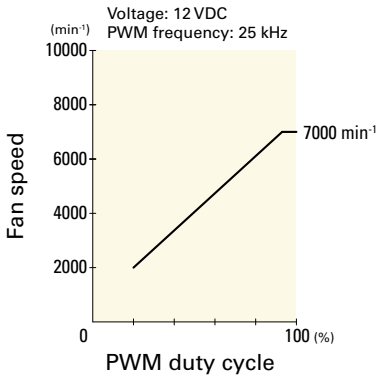
PWM duty cycle



Operating voltage range

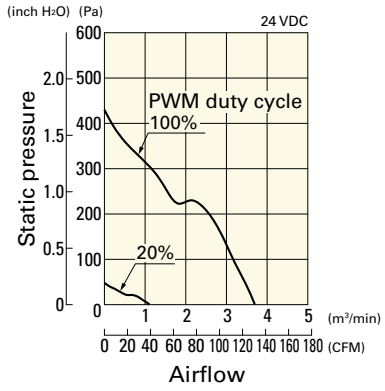


PWM duty - Speed characteristics example

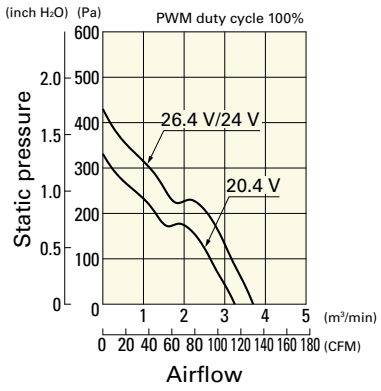


9WL0924P1H001 With pulse sensor with PWM control function

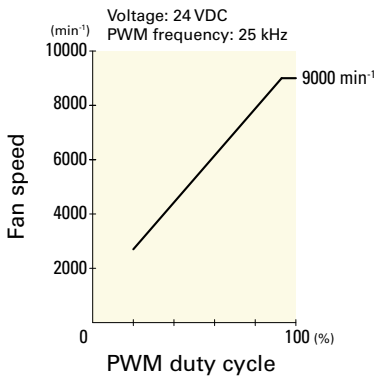
PWM duty cycle



Operating voltage range

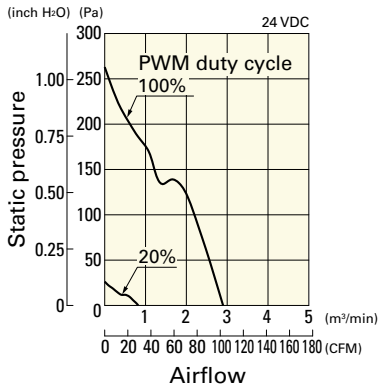


PWM duty - Speed characteristics example

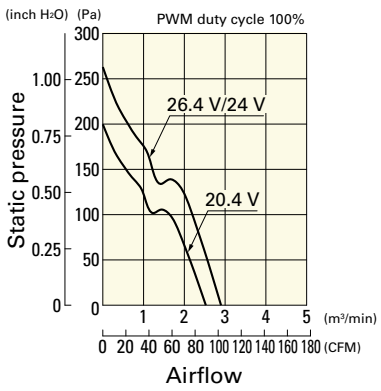


9WL0924P1F001 With pulse sensor with PWM control function

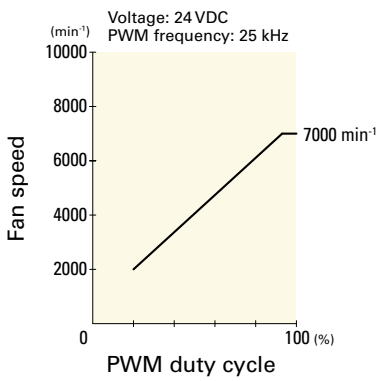
PWM duty cycle



Operating voltage range

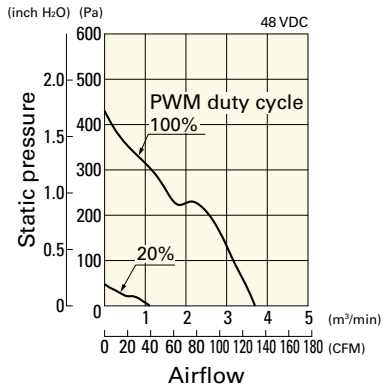


PWM duty - Speed characteristics example

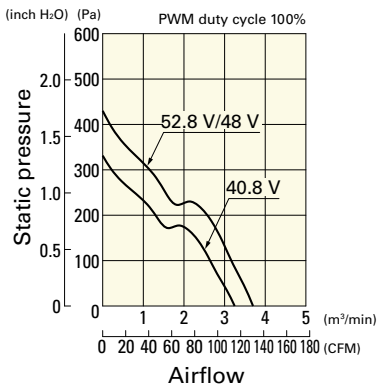


9WL0948P1H601 With pulse sensor with PWM control function

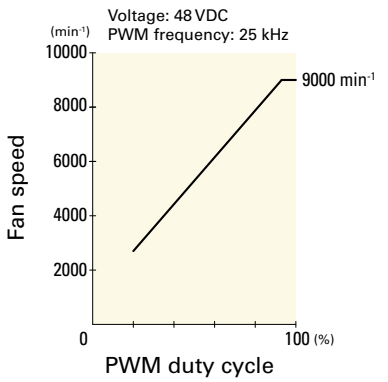
PWM duty cycle



Operating voltage range



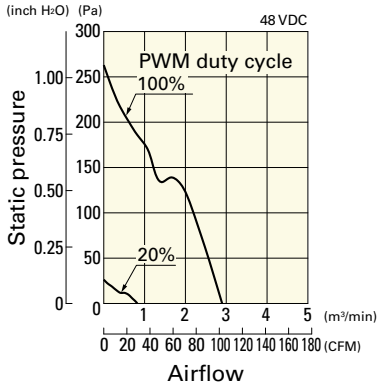
PWM duty - Speed characteristics example



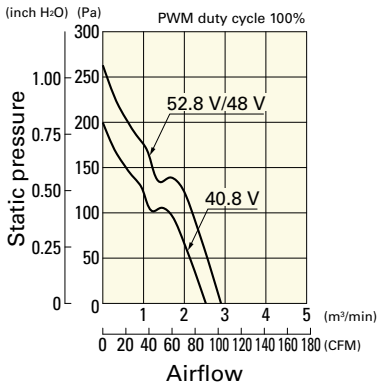
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0948P1F601 With pulse sensor with PWM control function

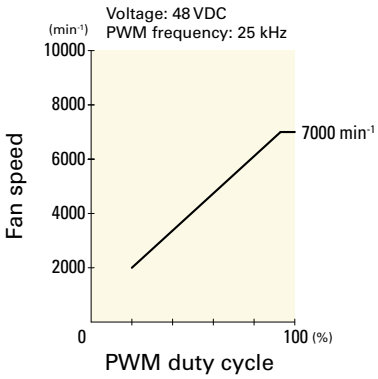
PWM duty cycle



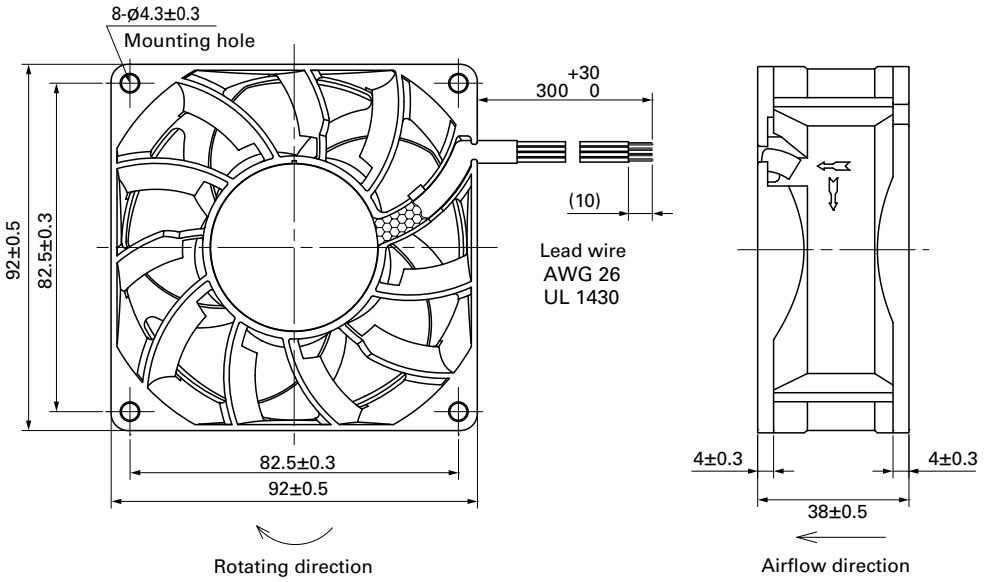
Operating voltage range



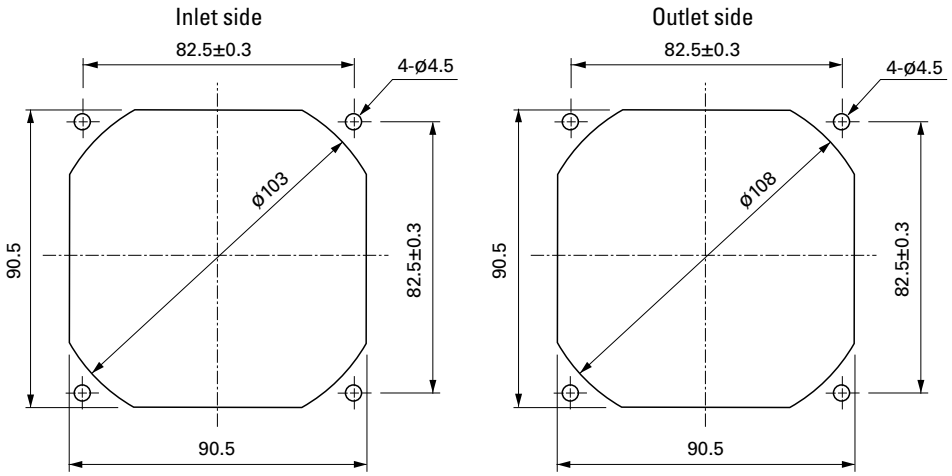
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards	page: p. 558

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

Resin finger guards	page: p. 565

Model no.: 109-1001G