



120×120×25 mm

San Ace 120 9GV 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 260 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 [m³/min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]	
9GV1212P4G01	12	10.2 to 13.8	100	1.68	20.16	5100	4.83	171	224	0.9	58	-20 to +70	40000/60°C (70000/40°C)	
			0	0.18	2.16	1650	1.56	55.1	23.5	0.09	30			
9GV1224P4G01	24	20.4 to 27.6	100	0.84	20.16	5100	4.83	171	224	0.9	58			
			0	0.13	3.12	1650	1.56	55.1	23.5	0.09	30			
9GV1248P4J01	48	40.8 to 55.2	100	0.5	24.0	5400	5.11	180	251	1.01	59			
			0	0.15	7.2	3000	2.84	100	77.5	0.31	47			
9GV1248P4G01		40.8 to 60.0	100	0.42	20.16	5100	4.83	171	224	0.9	58			
			0	0.07	3.36	1650	1.56	55.1	23.5	0.09	30			
9GV1248P4H01				100	0.33	15.84	4600	4.35	154	182	0.73			55
				0	0.07	3.36	1650	1.56	55.1	23.5	0.09			30

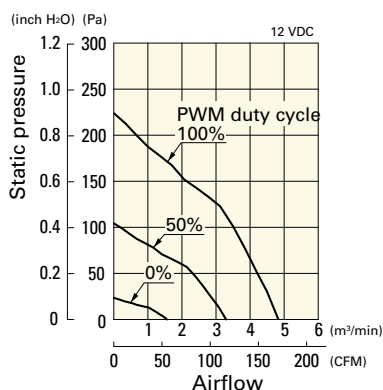
* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

Note: Sensor and control options are available for selection. Refer to the table on pp. 611 to 612.

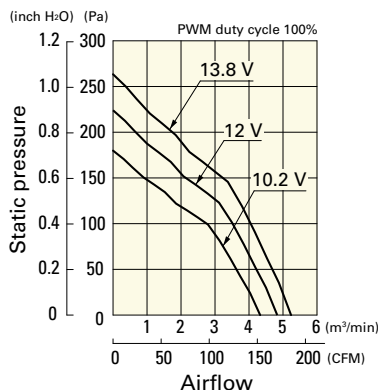
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1212P4G01 With pulse sensor with PWM control function

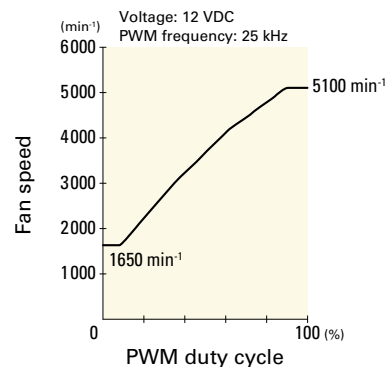
PWM duty cycle



Operating voltage range



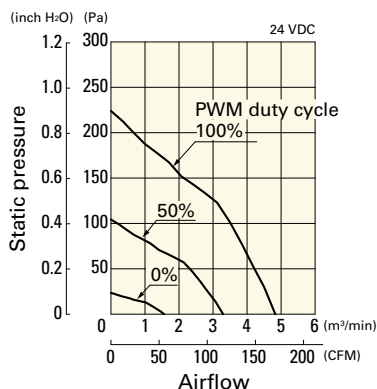
PWM duty - Speed characteristics example



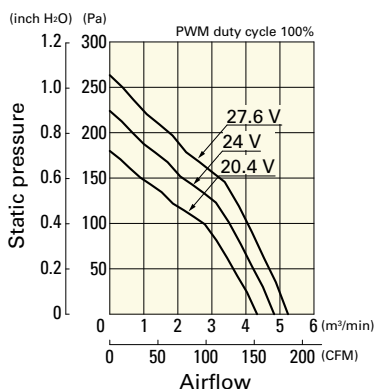
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1224P4G01 With pulse sensor with PWM control function

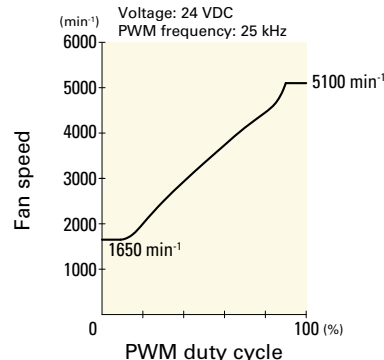
PWM duty cycle



Operating voltage range

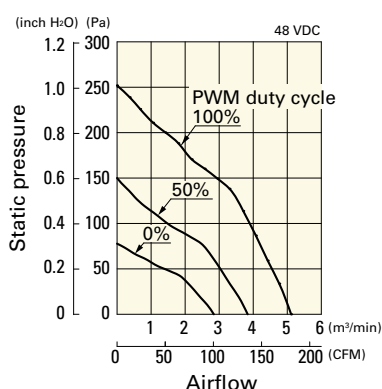


PWM duty - Speed characteristics example

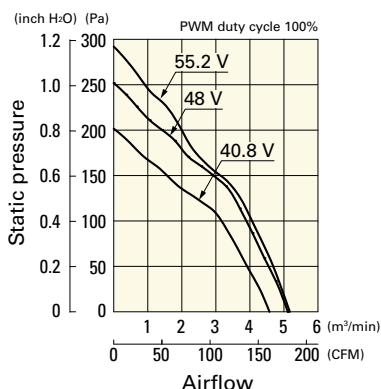


9GV1248P4J01 With pulse sensor with PWM control function

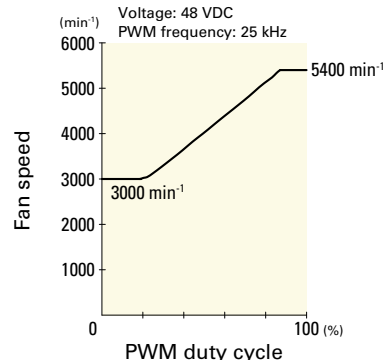
PWM duty cycle



Operating voltage range

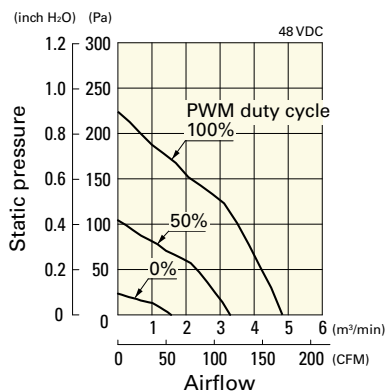


PWM duty - Speed characteristics example

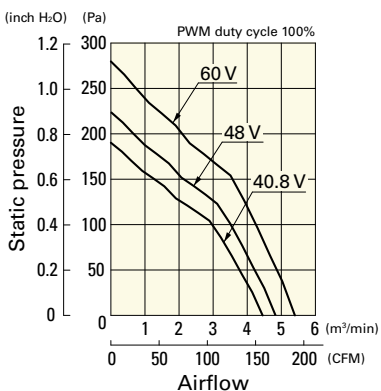


9GV1248P4G01 With pulse sensor with PWM control function

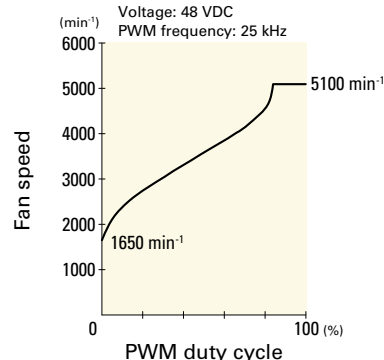
PWM duty cycle



Operating voltage range

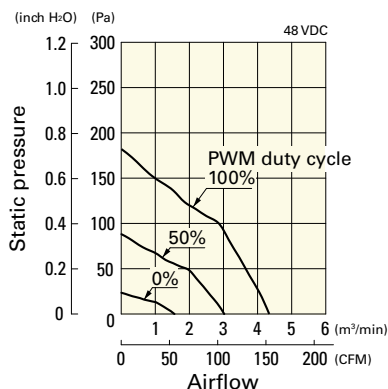


PWM duty - Speed characteristics example

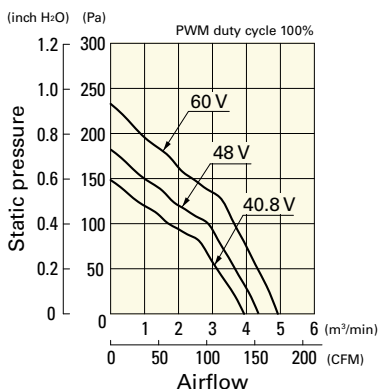


9GV1248P4H01 With pulse sensor with PWM control function

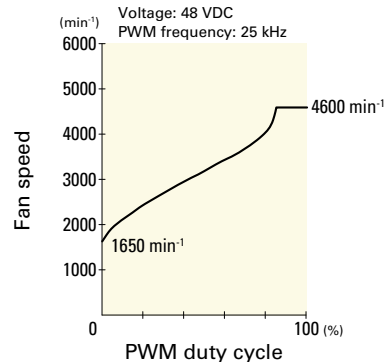
PWM duty cycle

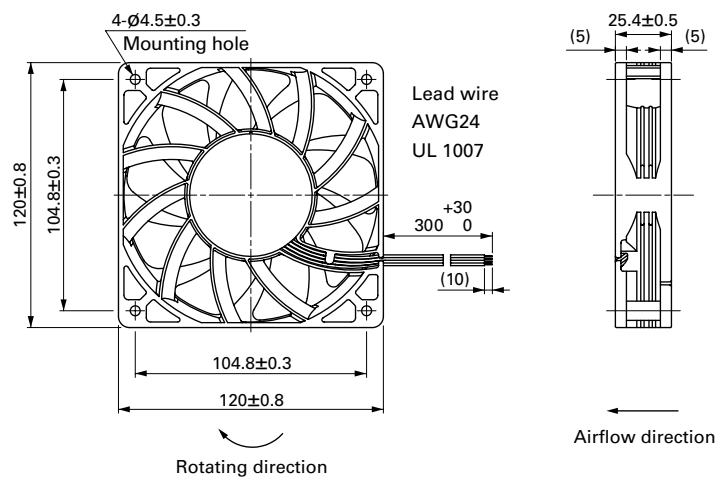
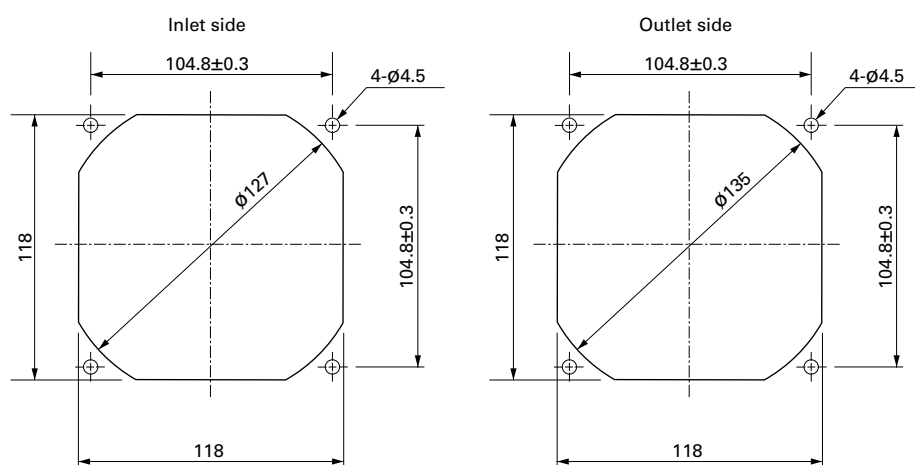


Operating voltage range



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. 565

Model no.: 109-019E, 109-019K, 109-019C, 109-019H

Resin finger guards

page: p. 571

Model no.: 109-1000G

Resin filter kits

page: p. 572

Model no.: 109-1000F13 (13PPI), 109-1000F20 (20PPI),
109-1000F30 (30PPI), 109-1000F40 (40PPI)