



# 80×80×25 mm

San Ace 80 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)
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 529.
- 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 ..... 125 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 <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GV0812P4K03	12	10.2 to 13.8	100	0.87	10.4	5600	2.12 74.8	173.0 0.69	52	-20 to +70	40000/60°C
			0	0.1	1.2	1400	0.5 18.7	10.3 0.04	18		
9GV0812P4J03	12	10.2 to 13.8	100	0.47	5.6	4500	1.72 60.7	110.0 0.44	46		
			0	0.07	0.8	1200	0.45 16.2	7.5 0.03	14		
9GV0824P4K01	24	20.4 to 27.6	100	0.44	10.56	5600	2.12 74.8	173.0 0.69	52		
			0	0.06	1.44	1400	0.53 18.7	10.8 0.04	18		
9GV0848P4K03	48	43 to 53	100	0.22	10.56	5600	2.12 74.8	173.0 0.69	52		
			0	0.04	1.92	1500	0.57 20.1	12.4 0.05	19		

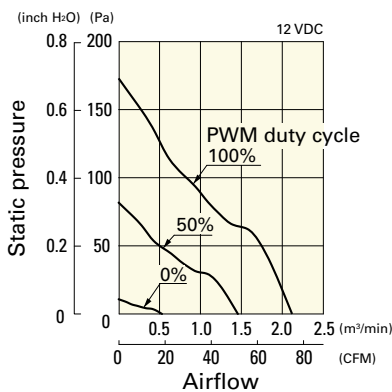
\* PWM frequency: 25 kHz

Other sensor specifications are available as options. Refer to the index (p. 555).

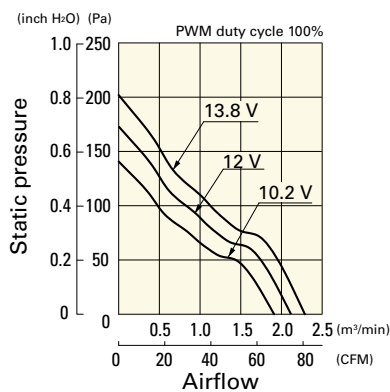
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV0812P4K03** With pulse sensor with PWM control function

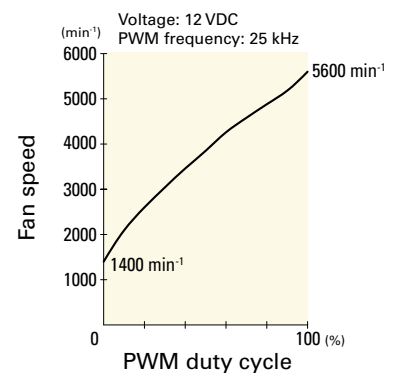
PWM duty cycle



Operating voltage range



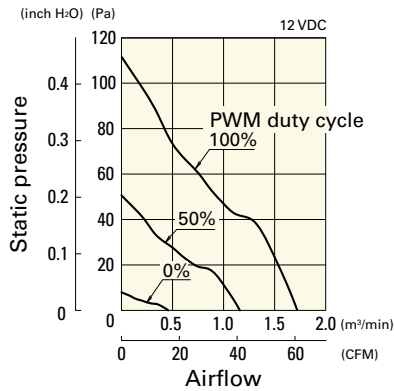
PWM duty - Speed characteristics example



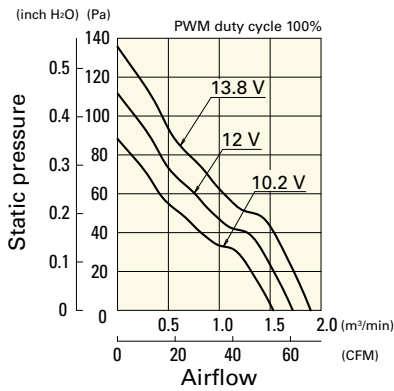
**Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example**

**9GV0812P4J03** With pulse sensor with PWM control function

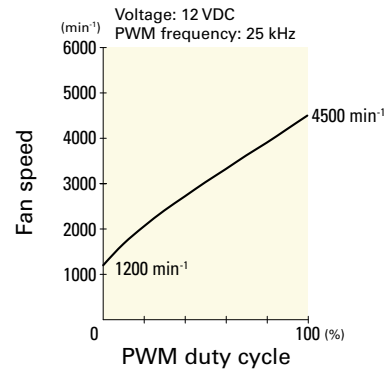
PWM duty cycle



Operating voltage range

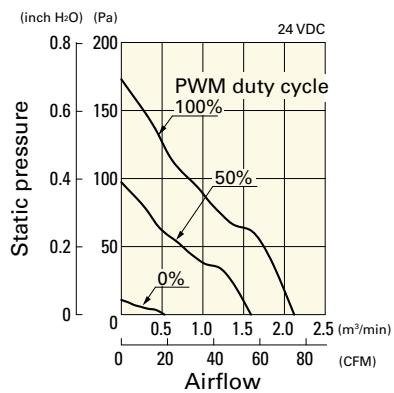


PWM duty - Speed characteristics example

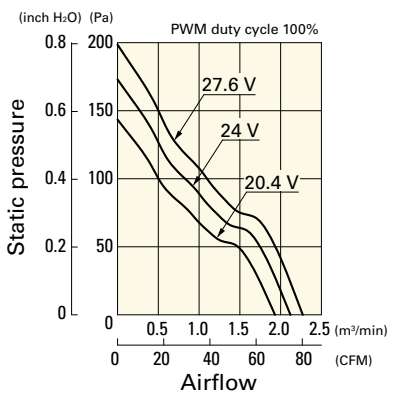


**9GV0824P4K01** With pulse sensor with PWM control function

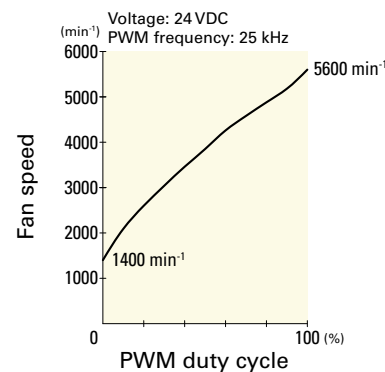
PWM duty cycle



Operating voltage range

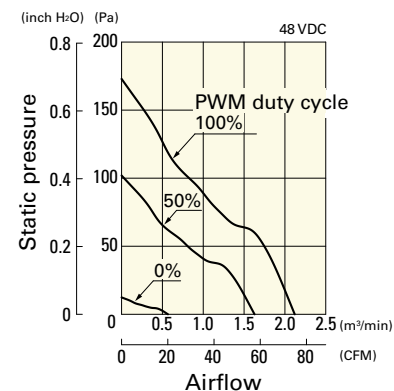


PWM duty - Speed characteristics example

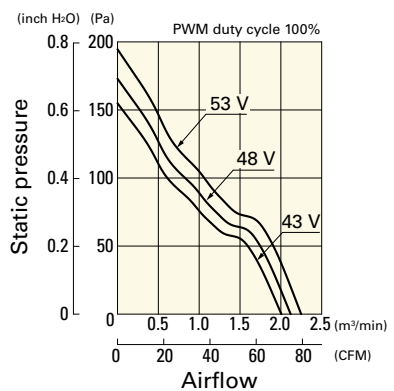


**9GV0848P4K03** With pulse sensor with PWM control function

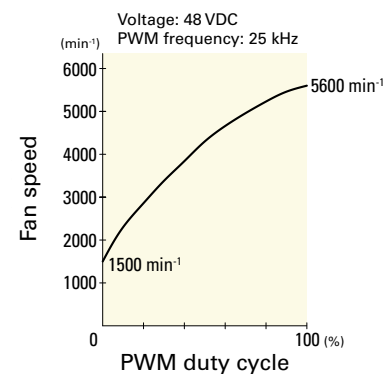
PWM duty cycle



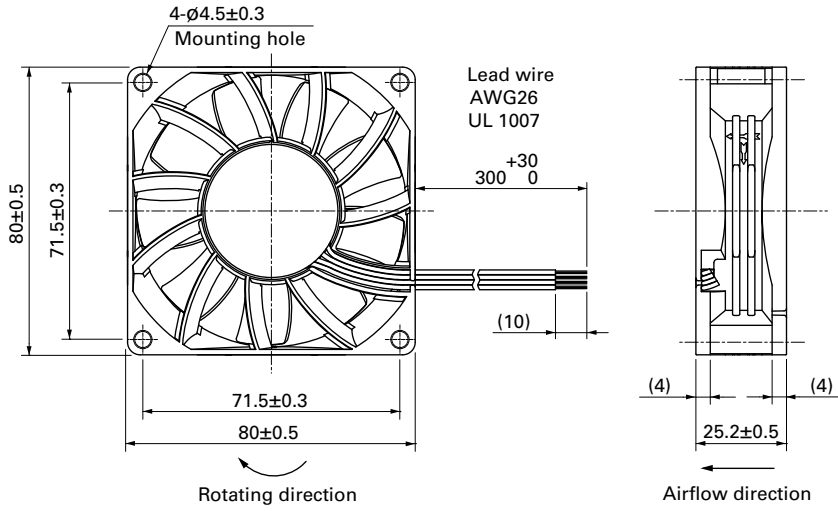
Operating voltage range



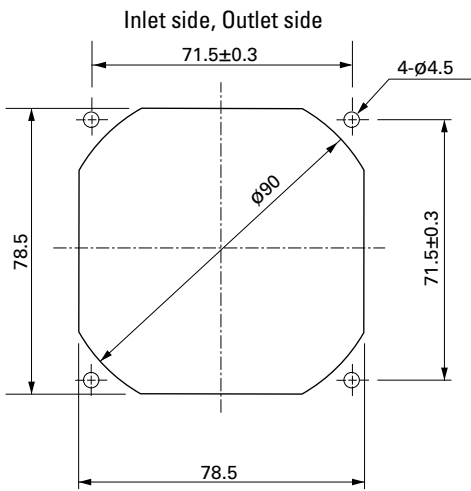
PWM duty - Speed characteristics example



**Dimensions (unit: mm)** (With ribs)



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



**Options**

Finger guards

page: p. 513

Model no.: 109-049C, 109-049E, 109-049H

Resin finger guards

page: p. 520

Model no.: 109-1002G

Resin filter kits

page: p. 521

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),  
109-1002F30 (30PPI), 109-1002F40 (40PPI)