

DC Fan



80x80x20 mm

San Ace 80 9GA type Low Power Consumption Fan

General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- 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. 599.
- 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 80 g

Specifications

The models listed below **have ribs and 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 [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GA0812P6G001	12	10.2 to 13.8	100	0.3	3.6	5850	1.72 60.78	110 0.44	45	-20 to +70	40000/60°C (70000/40°C)
9GA0812P6M001			100	0.06	0.72	2900	0.84 29.68	27 0.11	26.5		60000/60°C (90000/40°C)
9GA0824P6G001	24	20.4 to 27.6	100	0.15	3.6	5850	1.72 60.78	110 0.44	45		40000/60°C (70000/40°C)
9GA0824P6M001			100	0.03	0.72	2900	0.84 29.68	27 0.11	26.5		60000/60°C (90000/40°C)

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

Note 1: Sensor and control options are available for selection. Refer to the table on p. 630.

Note 2: The mark indicates Short LeadTime Service applicable models. See p. 654 for details.

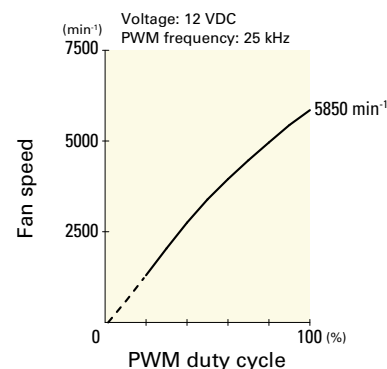
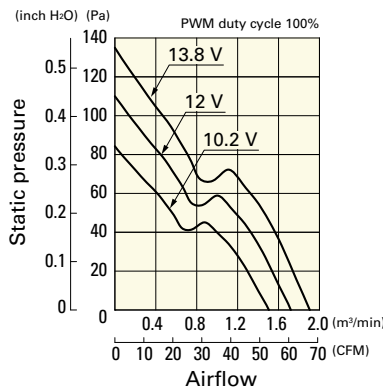
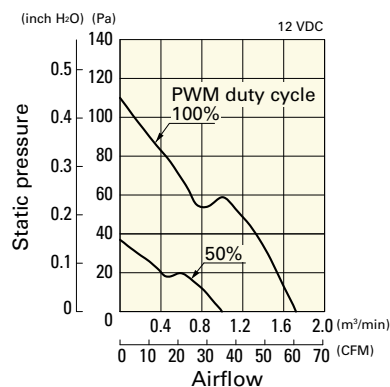
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0812P6G001 With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

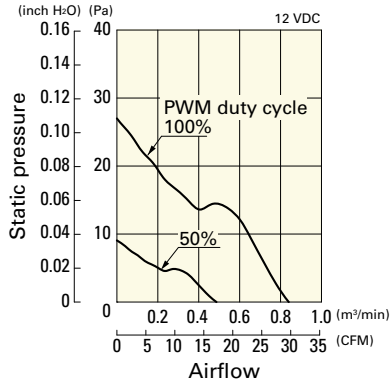
PWM duty - Speed characteristics example



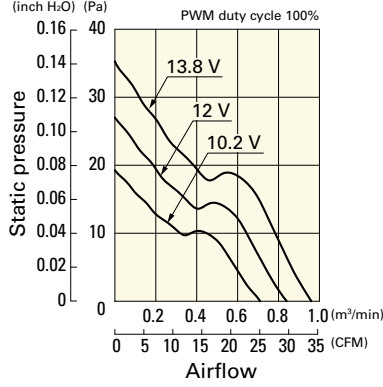
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0812P6M001 With pulse sensor with PWM control function

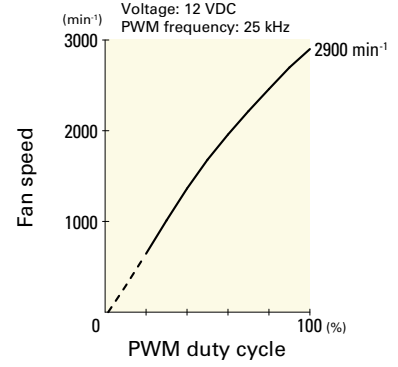
PWM duty cycle



Operating voltage range

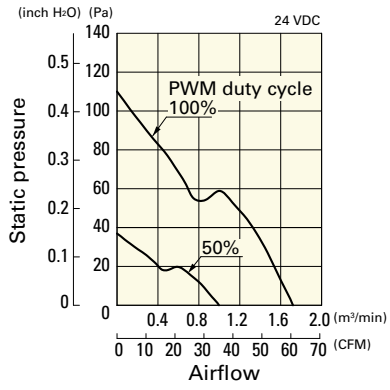


PWM duty - Speed characteristics example

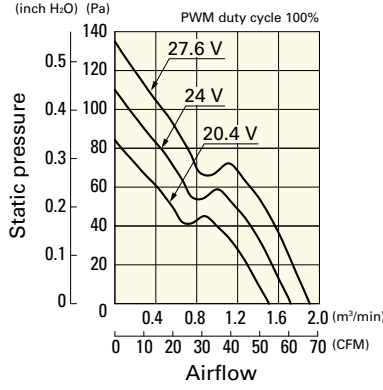


9GA0824P6G001 With pulse sensor with PWM control function

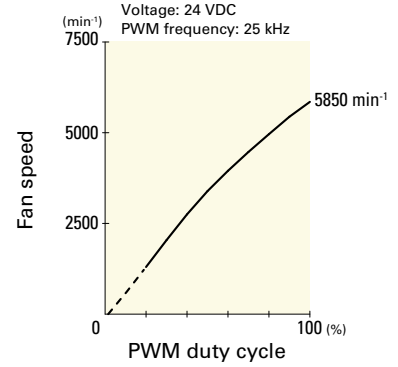
PWM duty cycle



Operating voltage range

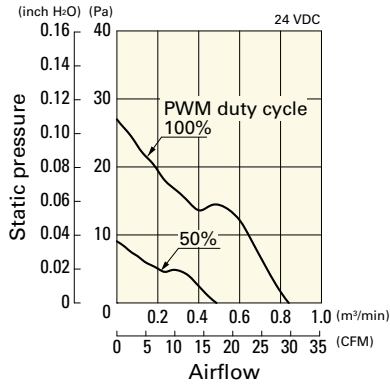


PWM duty - Speed characteristics example

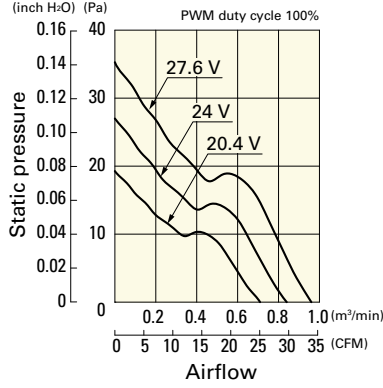


9GA0824P6M001 With pulse sensor with PWM control function

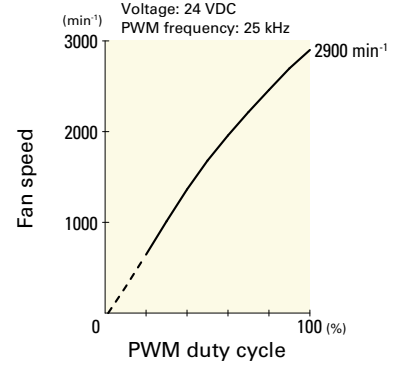
PWM duty cycle



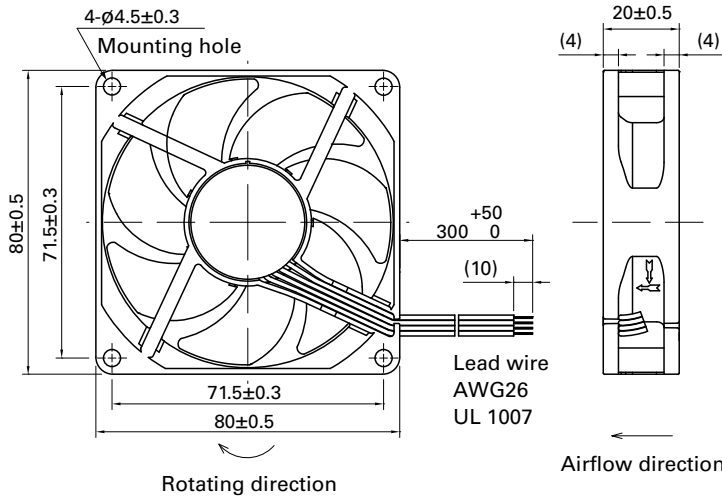
Operating voltage range



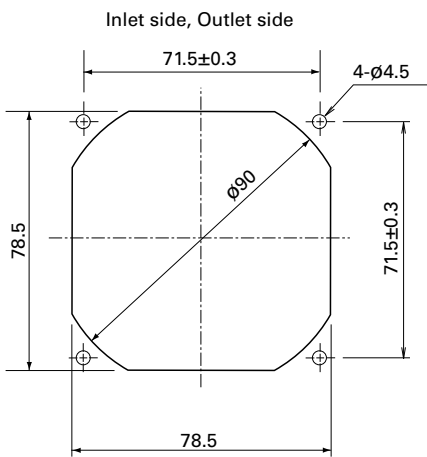
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards page: p. 584
 Model no.: 109-049E, 109-049H, 109-049C

Resin finger guards page: p. 591
 Model no.: 109-1002G

Resin filter kits page: p. 592
 Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),
 109-1002F30 (30PPI), 109-1002F40 (40PPI)