

DC Fan**52×52×15 mm****San Ace 52 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 40 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 [m³/min] [CFM]	Max. static pressure [Pa] [inch H₂O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GA0512P7G001	12	10.2 to 13.8	100	0.13	1.56	7800	0.5	17.7	91.5	0.367	38
9GA0512P7A001			100	0.08	0.96	6300	0.4	14.1	59	0.237	32
9GA0512P7H001			100	0.05	0.6	4300	0.275	9.7	27.5	0.11	22
9GA0512P7M001			100	0.04	0.48	3400	0.215	7.6	17	0.068	16
9GA0524P7G001			100	0.07	1.68	7800	0.5	17.7	91.5	0.367	38
9GA0524P7A001			100	0.05	1.2	6300	0.4	14.1	59.0	0.237	32
9GA0524P7H001			100	0.03	0.72	4300	0.275	9.7	27.5	0.11	22
9GA0524P7M001			100	0.02	0.48	3400	0.215	7.6	17.0	0.068	16

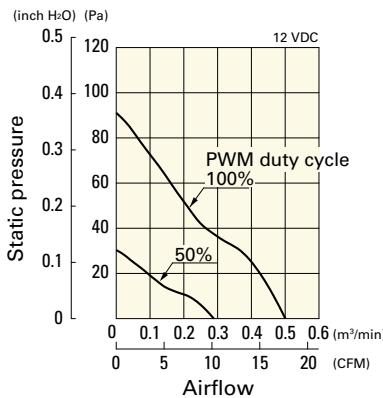
* PWM input frequency is 25 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

Note 1: Sensor and control options are available for selection. Refer to the table on pp. 628 to 629.

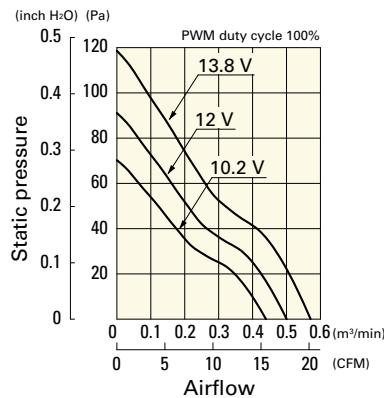
Note 2: The mark indicates Short LeadTime Service applicable models. See p. 654 for details.

Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example**9GA0512P7G001** With pulse sensor with PWM control function

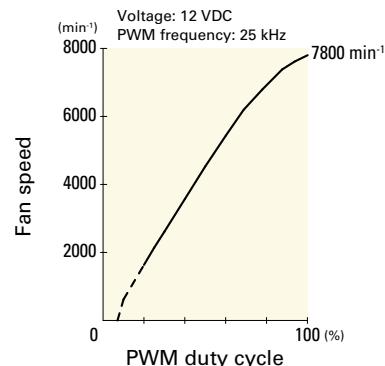
PWM duty cycle



Operating voltage range



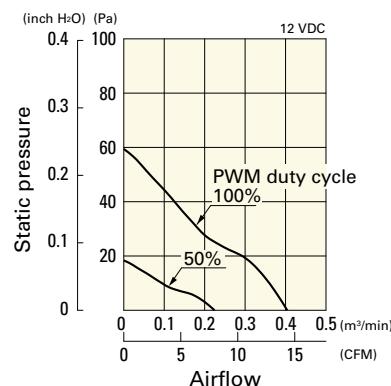
PWM duty - Speed characteristics example



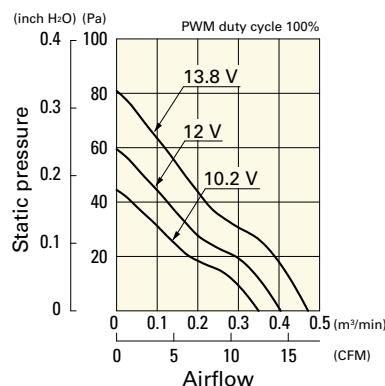
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0512P7A001 With pulse sensor with PWM control function

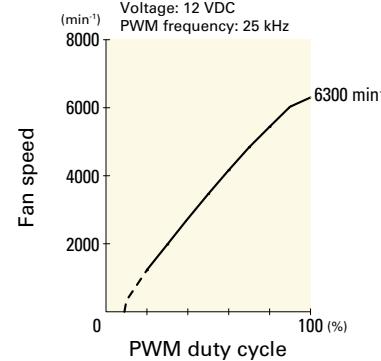
PWM duty cycle



Operating voltage range

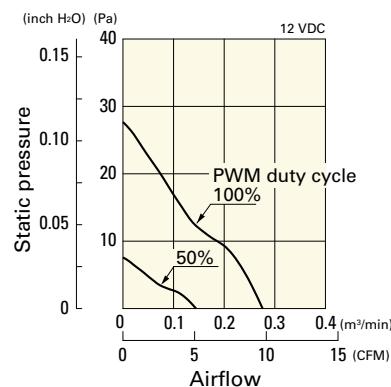


PWM duty - Speed characteristics example

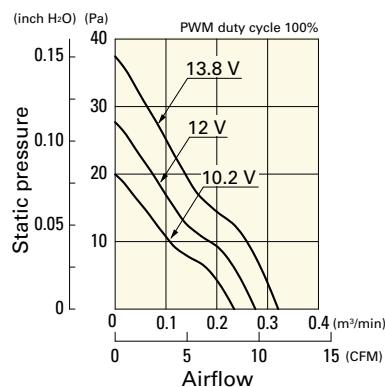


9GA0512P7H001 With pulse sensor with PWM control function

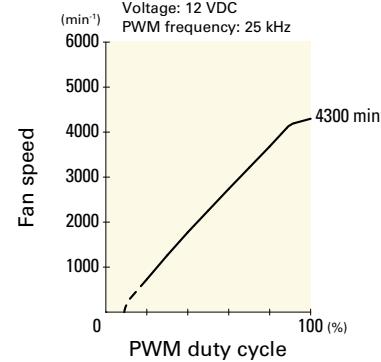
PWM duty cycle



Operating voltage range

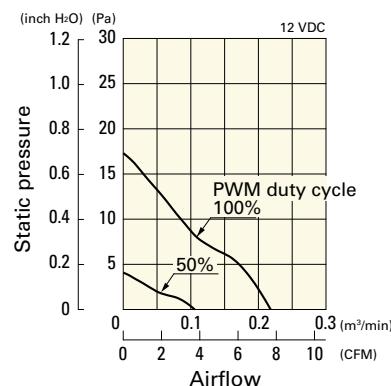


PWM duty - Speed characteristics example

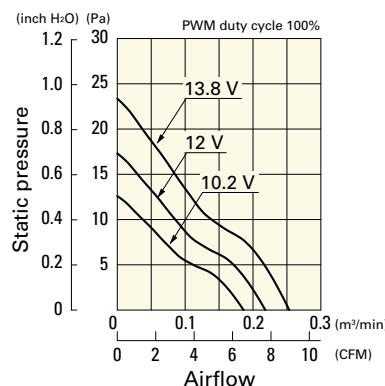


9GA0512P7M001 With pulse sensor with PWM control function

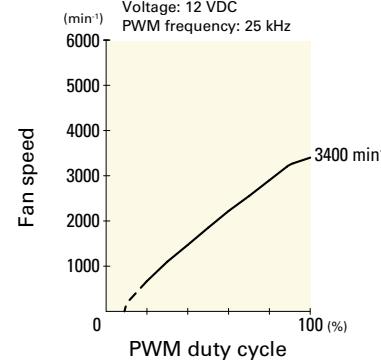
PWM duty cycle



Operating voltage range

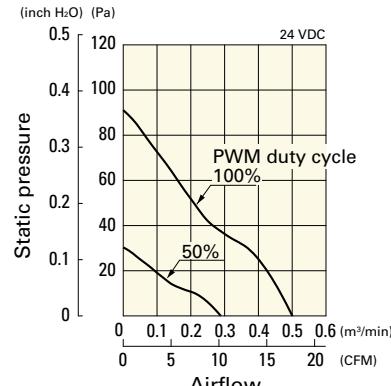


PWM duty - Speed characteristics example

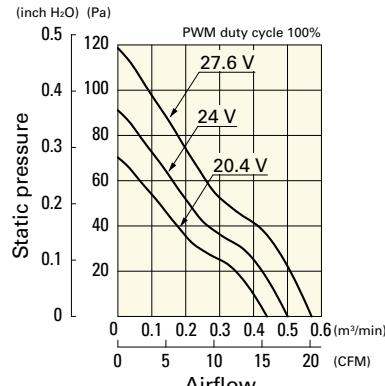


9GA0524P7G001 With pulse sensor with PWM control function

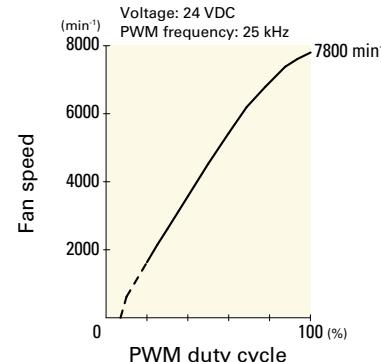
PWM duty cycle



Operating voltage range



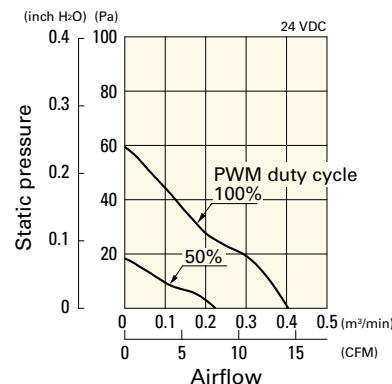
PWM duty - Speed characteristics example



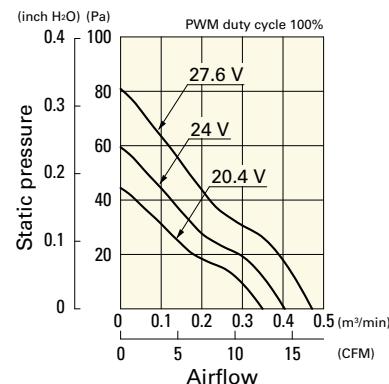
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0524P7A001 With pulse sensor with PWM control function

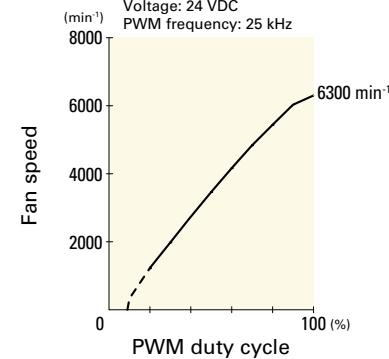
PWM duty cycle



Operating voltage range

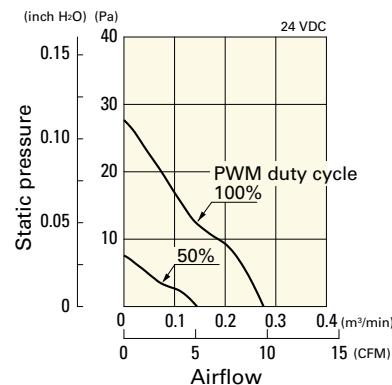


PWM duty - Speed characteristics example

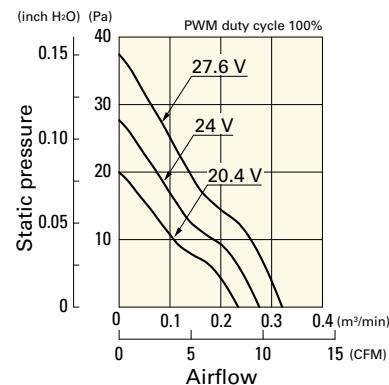


9GA0524P7H001 With pulse sensor with PWM control function

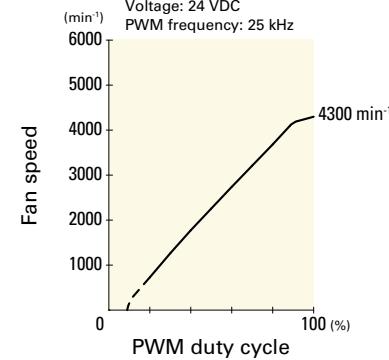
PWM duty cycle



Operating voltage range

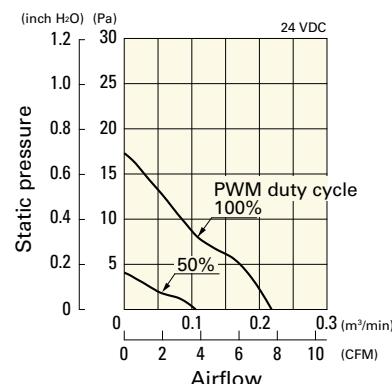


PWM duty - Speed characteristics example

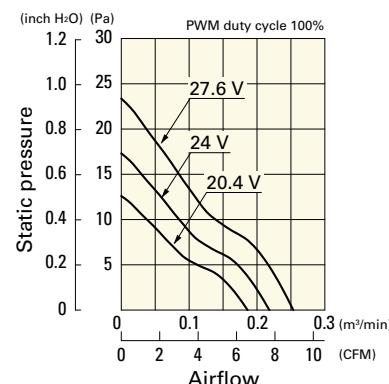


9GA0524P7M001 With pulse sensor with PWM control function

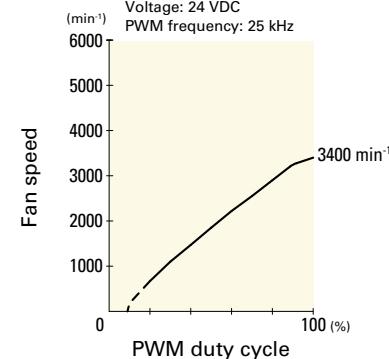
PWM duty cycle

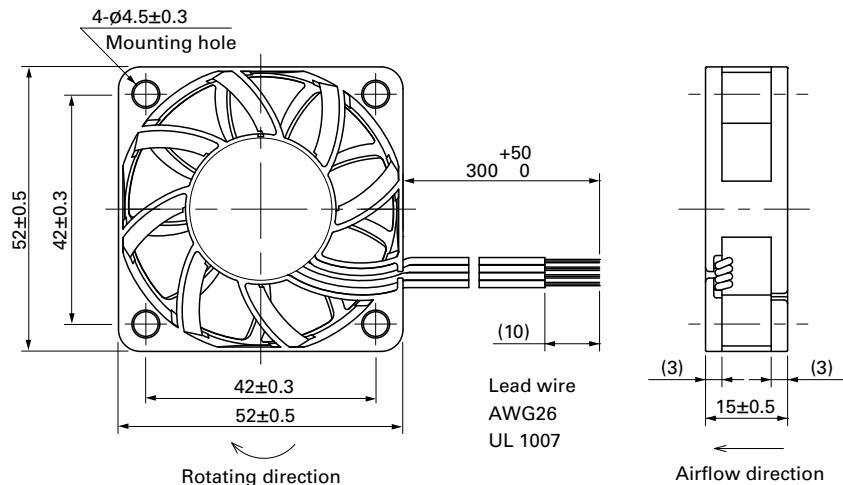
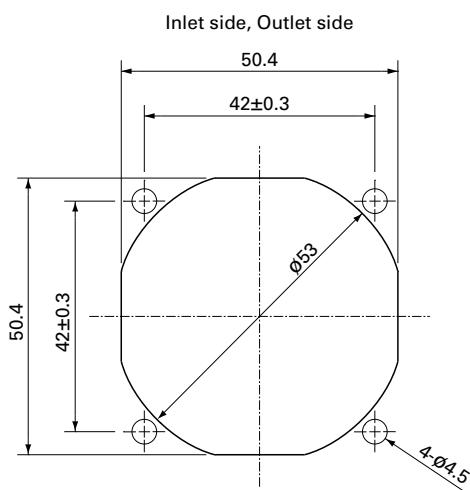


Operating voltage range



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.: 109-149, 109-149E