



# 40x40x28 mm

**San Ace 40 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)
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 547.
- 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 ..... 53 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]		
9GA0412P3K01	12	10.8 to 13.2	100	0.92	11.04	22000	0.81 28.6	799 3.21	61	-20 to +60	30000/60°C		
			0	0.1	1.2	6500	0.23 8.12	68 0.27	32				
9GA0412P3J01			100	0.49	5.88	18000	0.67 23.7	535 2.15	54				
			0	0.05	0.6	4500	0.16 5.7	33 0.13	22				
9GA0412P3G01			100	0.39	4.68	16500	0.61 21.5	450 1.81	53				
			0	0.05	0.6	4500	0.16 5.7	33 0.13	22				
9GA0412P3H01			100	0.28	3.36	14500	0.54 19.1	347 1.39	50				
			0	0.04	0.48	3500	0.13 4.6	20 0.08	17				
9GA0412P3M01			100	0.21	2.52	12500	0.46 16.2	258 1.04	47				
			0	0.04	0.48	3500	0.13 4.6	20 0.08	17				
9GA0424P3J001**			24	21.6 to 26.4	100	0.27	6.48	18000	0.67 23.7	535 2.15	54	-20 to +70	40000/60°C
9GA0424P3G001**					100	0.22	5.28	16500	0.61 21.5	450 1.81	53		
9GA0424P3H001**	100	0.16			3.84	14500	0.54 19.1	347 1.39	50				
9GA0424P3M001**	100	0.11			2.64	12500	0.46 16.2	258 1.04	47				

\* PWM frequency: 25 kHz \*\* Fan does not rotate when PWM duty cycle is 0%.

The following sensor and control options are available for selection.

Available for all models. Without sensor Pulse sensor

Differs according to the model. Refer to the table on p. 570. Lock sensor

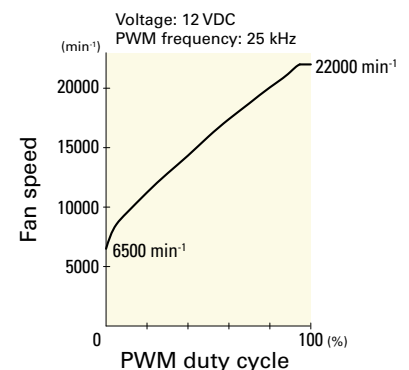
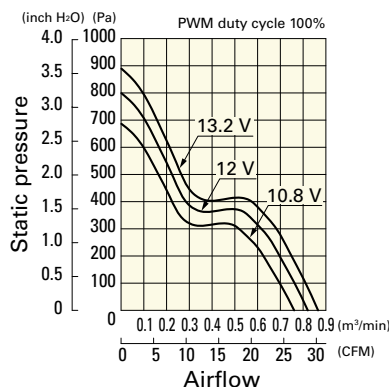
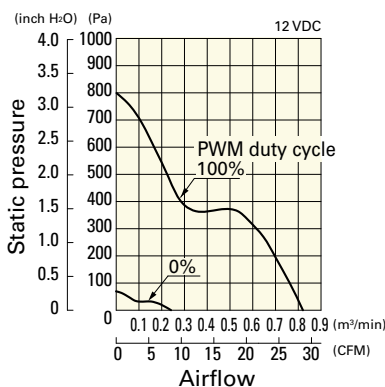
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0412P3K01** With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

PWM duty - Speed characteristics example



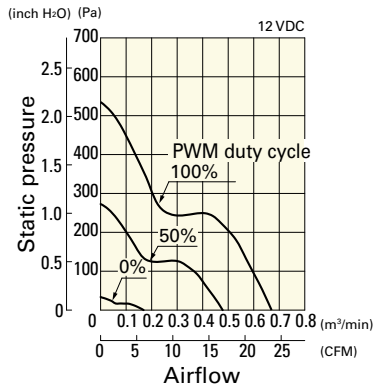
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

DC

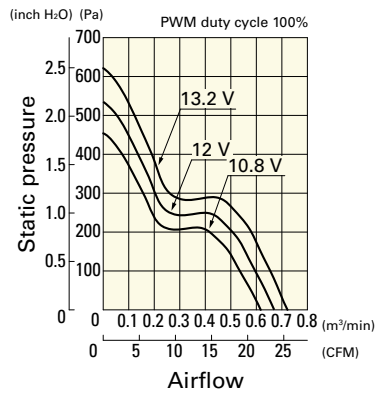
DC Fan 40 mm sq.

## 9GA0412P3J01 With pulse sensor with PWM control function

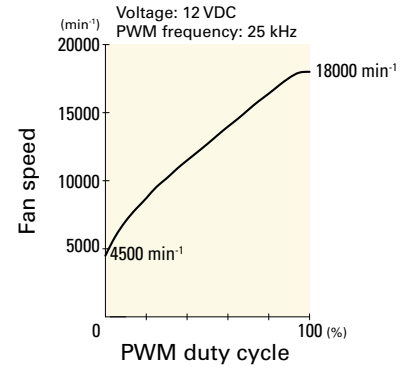
PWM duty cycle



Operating voltage range

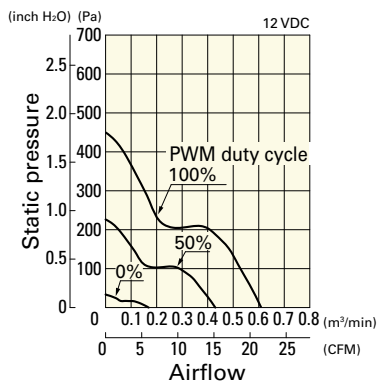


PWM duty - Speed characteristics example

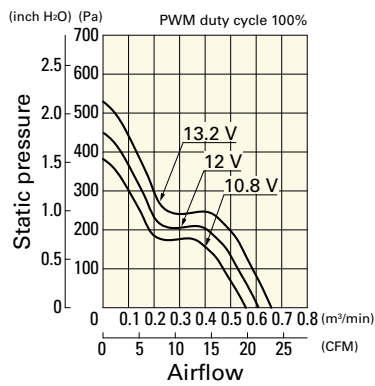


## 9GA0412P3G01 With pulse sensor with PWM control function

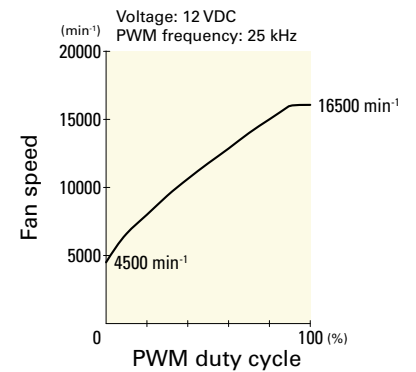
PWM duty cycle



Operating voltage range

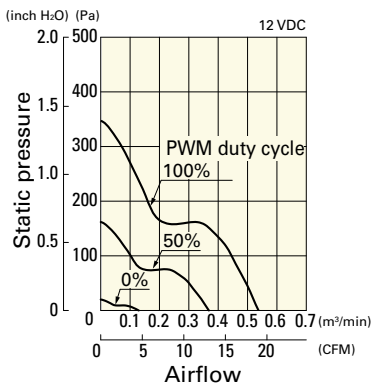


PWM duty - Speed characteristics example

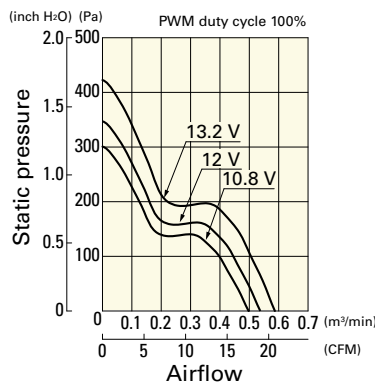


## 9GA0412P3H01 With pulse sensor with PWM control function

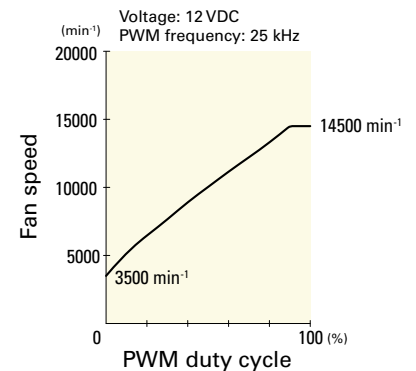
PWM duty cycle



Operating voltage range

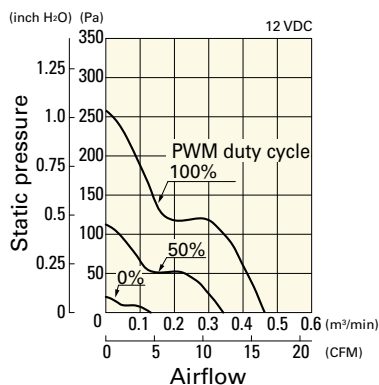


PWM duty - Speed characteristics example

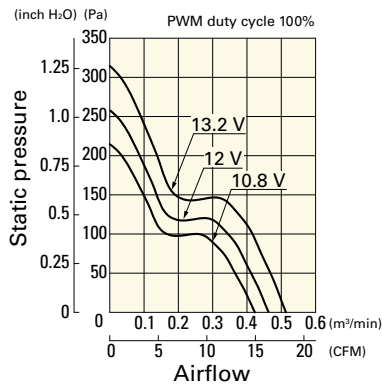


## 9GA0412P3M01 With pulse sensor with PWM control function

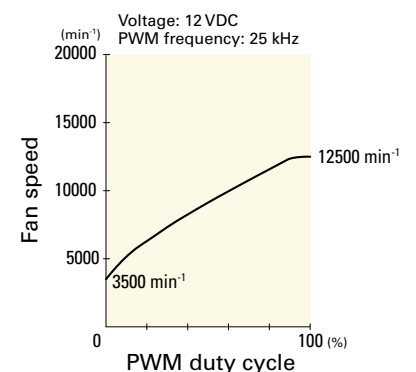
PWM duty cycle



Operating voltage range



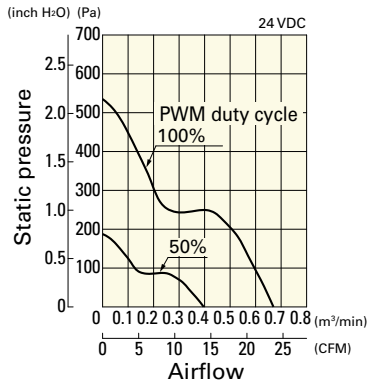
PWM duty - Speed characteristics example



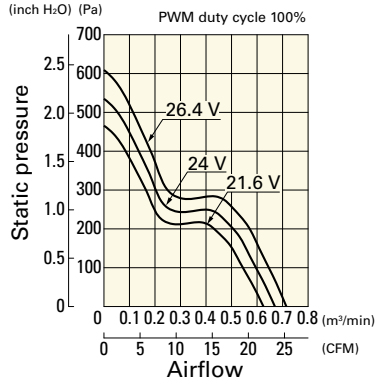
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0424P3J001** With pulse sensor with PWM control function

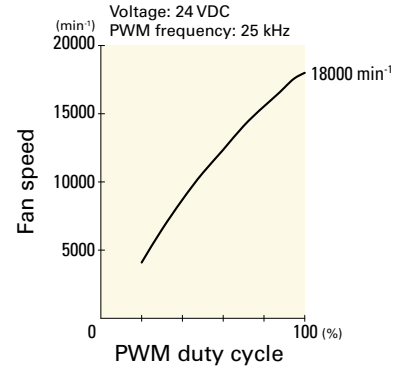
PWM duty cycle



Operating voltage range

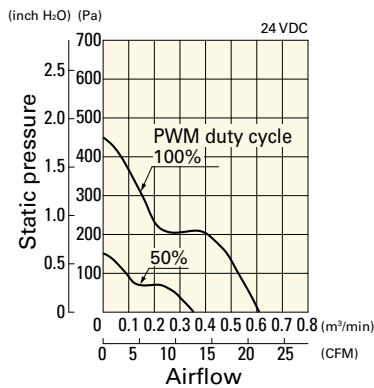


PWM duty - Speed characteristics example

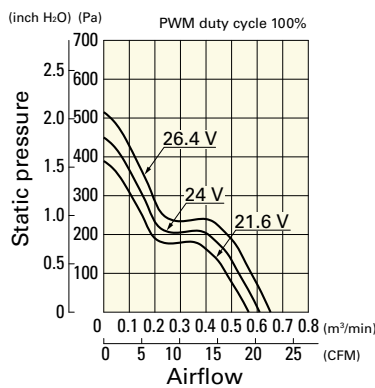


**9GA0424P3G001** With pulse sensor with PWM control function

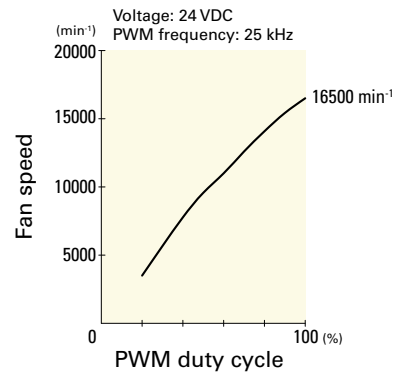
PWM duty cycle



Operating voltage range

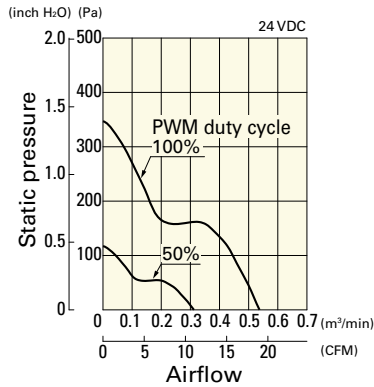


PWM duty - Speed characteristics example

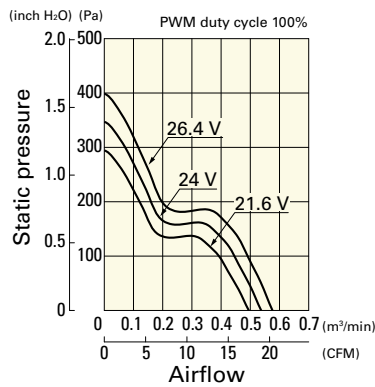


**9GA0424P3H001** With pulse sensor with PWM control function

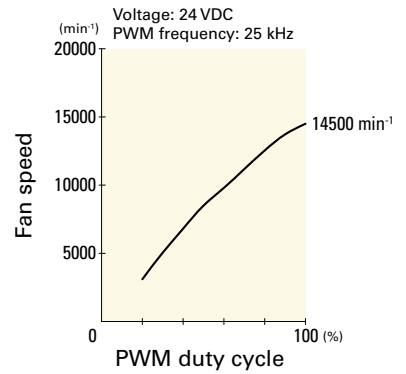
PWM duty cycle



Operating voltage range

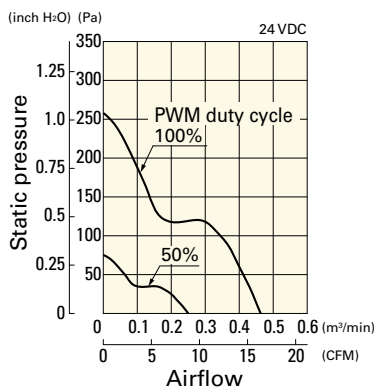


PWM duty - Speed characteristics example

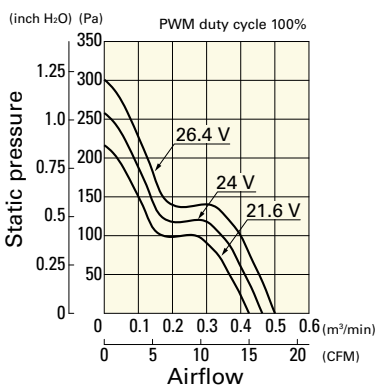


**9GA0424P3M001** With pulse sensor with PWM control function

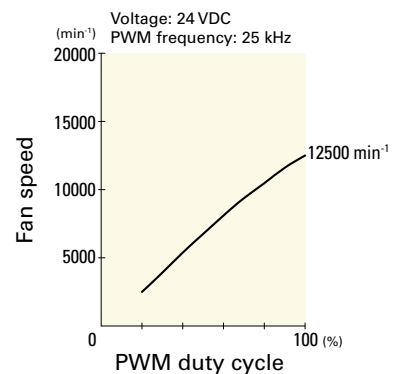
PWM duty cycle



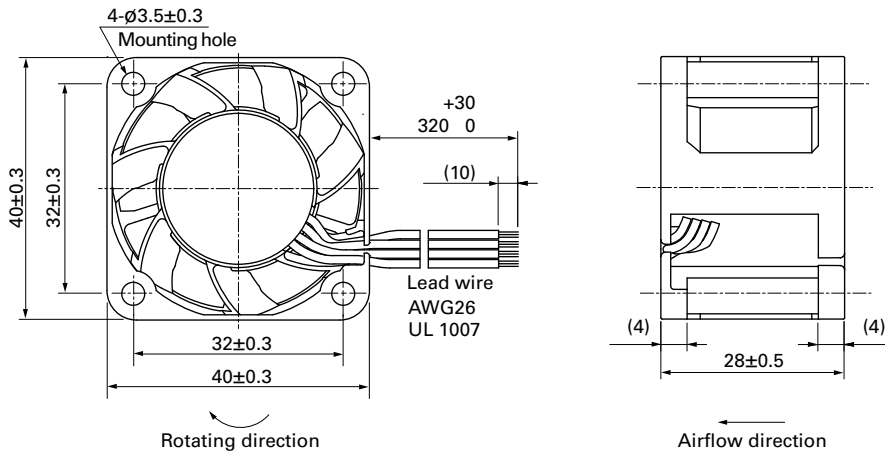
Operating voltage range



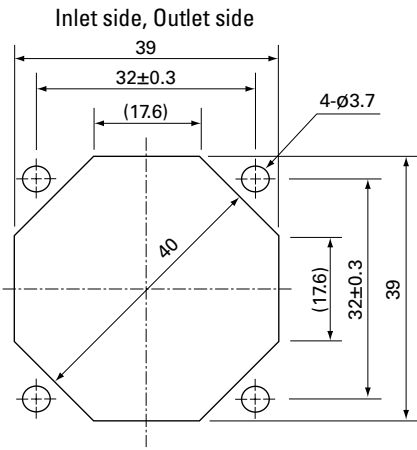
PWM duty - Speed characteristics example



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



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



**Options**

Finger guards

page: p. 532

Model no.: 109-059, 109-059H



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