


# 40x40x28 mm

San Ace 40 9GAX 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. 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 ..... 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]
9GAX0412P3S001**	12	10.8 to 12.6	100	1.3	15.6	25000	0.9 31.8	1000 4.02	64	-20 to +60	30000/60°C
			20	0.07	0.84	4400	0.155 5.5	32 0.125	21.5		
100			1.3	15.6	25000	0.9 31.8	1000 4.02	64			
10.8 to 13.2		0	0.11	1.32	7800	0.26 9.2	87 0.35	38			
		100	0.92	11.04	22000	0.81 28.6	800 3.21	61			
		20	0.07	0.84	4200	0.15 5.3	28 0.11	21			
9GAX0412P3K001**			100	0.92	11.04	22000	0.81 28.6	800 3.21	61		
9GAX0412P3K003			100	0.92	11.04	22000	0.81 28.6	800 3.21	61		
			0	0.1	1.2	6500	0.24 8.5	70 0.28	32		

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

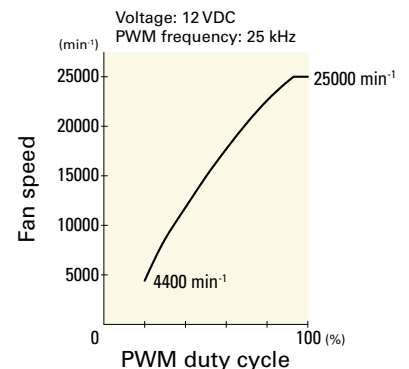
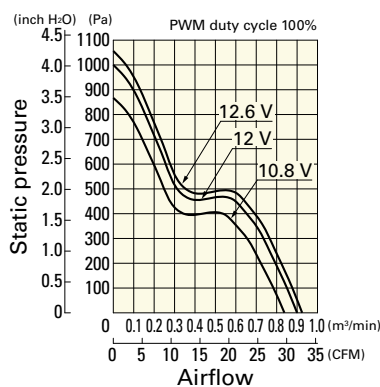
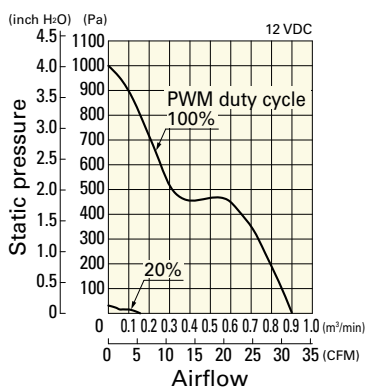
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GAX0412P3S001** With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

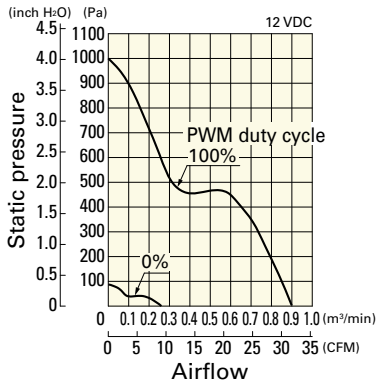
PWM duty - Speed characteristics example



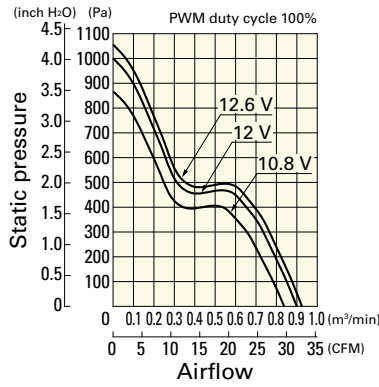
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GAX0412P3S003** With pulse sensor with PWM control function

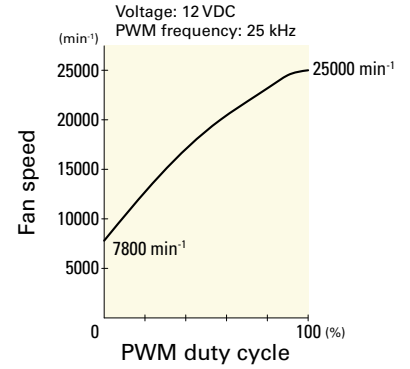
PWM duty cycle



Operating voltage range

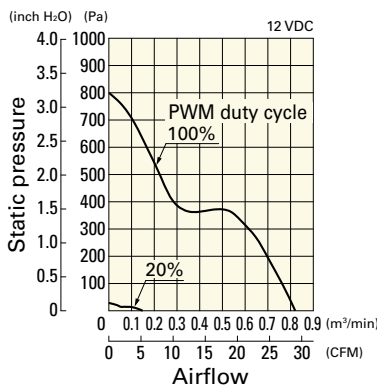


PWM duty - Speed characteristics example

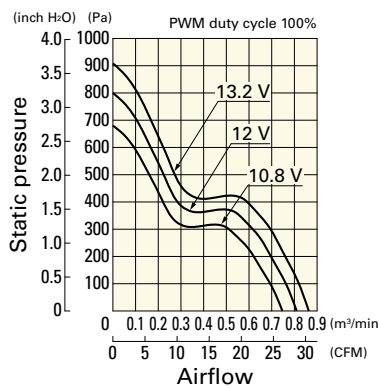


**9GAX0412P3K001** With pulse sensor with PWM control function

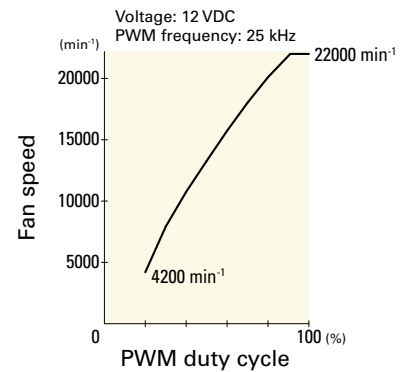
PWM duty cycle



Operating voltage range

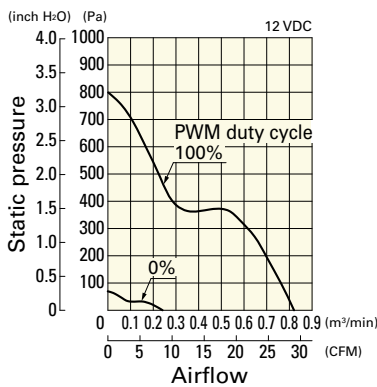


PWM duty - Speed characteristics example

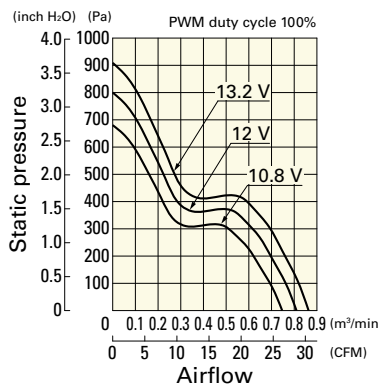


**9GAX0412P3K003** With pulse sensor with PWM control function

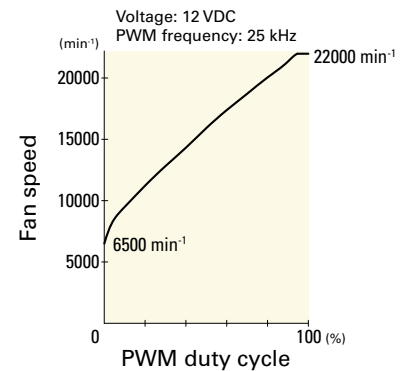
PWM duty cycle



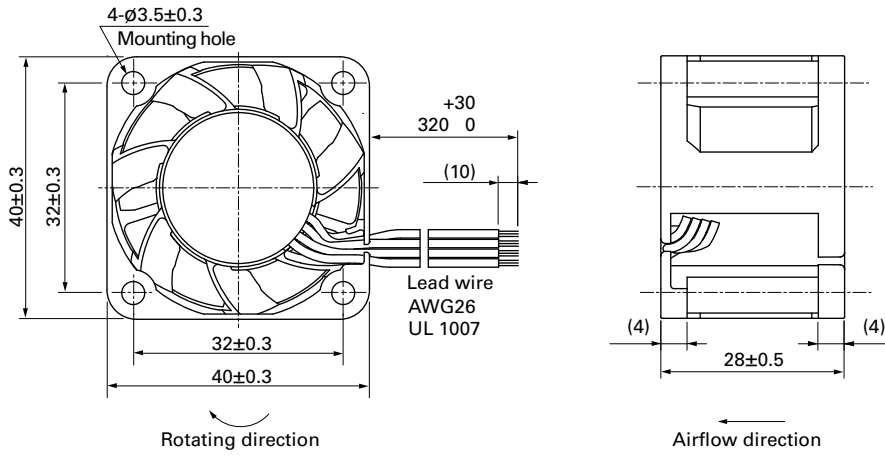
Operating voltage range



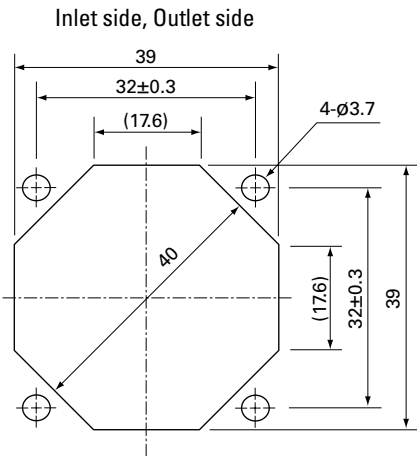
PWM duty - Speed characteristics example



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



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



**Options**

Finger guards

page: p. 513

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