



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. 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 ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ 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			-20 to +70	40000/60°C		
			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				
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%.

Other sensor specifications are available as options. Refer to the index (p. 551).

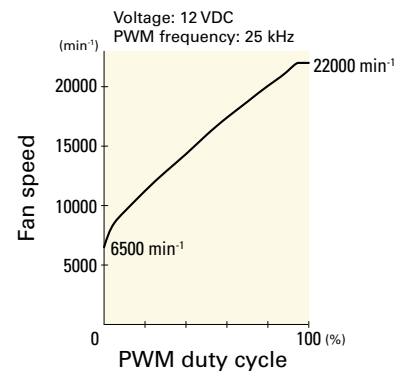
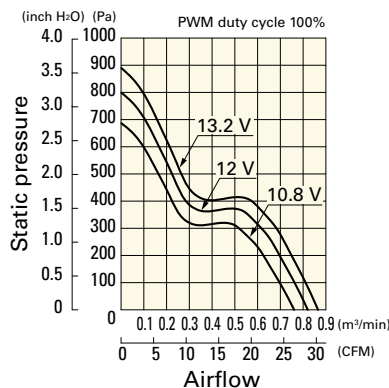
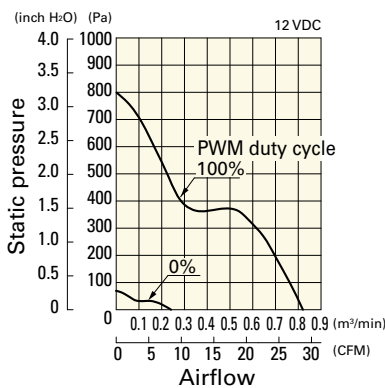
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

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

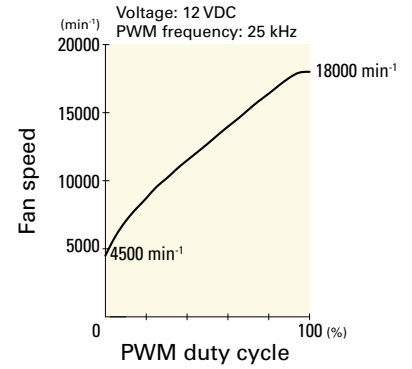
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



9GA0412P3G01 With pulse sensor with PWM control function

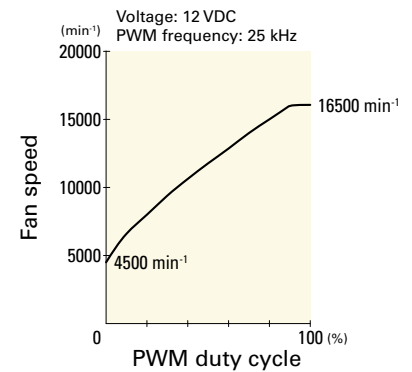
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



9GA0412P3H01 With pulse sensor with PWM control function

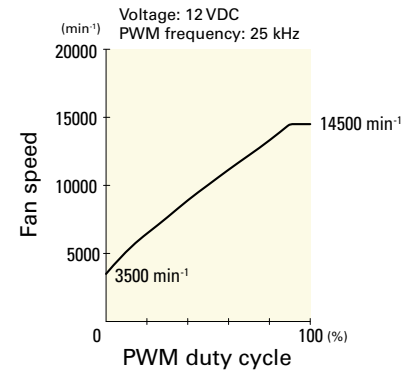
PWM duty cycle



Operating voltage range

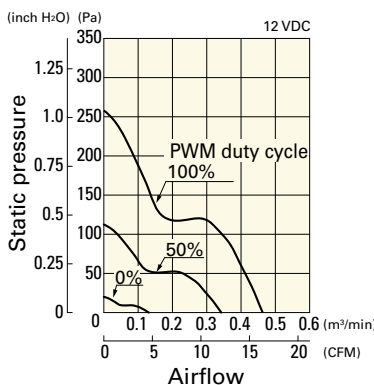


PWM duty - Speed characteristics example



9GA0412P3M01 With pulse sensor with PWM control function

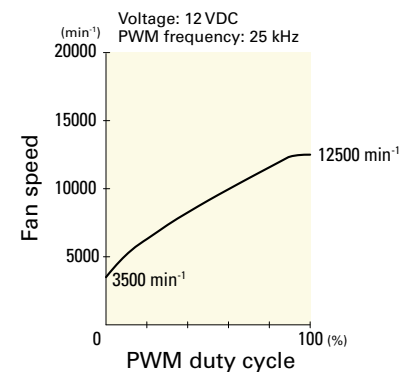
PWM duty cycle



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. 513

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