

60×60×38 mm

San Ace 60 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 130 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 [m³/min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GA0612P1J03**	12	10.8 to 12.6	100	1.5	18.0	17500	1.75 62	820 3.3	63	-20 to +60	40000/60°C (70000/40°C)
20			0.1	1.2	4000	0.4 14	43 0.17	24			
9GA0612P1K03**		10.8 to 13.2	100	0.95	11.4	14800	1.5 53	600 2.4	59	-20 to +70	
			20	0.1	1.2	4000	0.4 14	43 0.17	24		
9GA0612P1H03**			100	0.55	6.6	11500	1.15 40	375 1.5	52	-20 to +60	
			20	0.06	0.72	2600	0.27 9.5	20 0.08	19		
9GA0612P1K60			100	0.95	11.4	14800	1.5 53	675 2.7	59	-20 to +60	
			0	0.05	0.6	1480	0.134 4.7	8.3 0.03	16		
9GA0624P1J03**	24	21.6 to 25.2	100	0.75	18.0	17500	1.75 62	820 3.3	63	-20 to +60	
20			0.1	2.4	6200	0.63 22	104 0.42	35			
9GA0624P1K03**		21.6 to 26.4	100	0.5	12	14800	1.5 53.0	600 2.4	59	-20 to +70	
			20	0.06	1.44	5000	0.5 17.7	70 0.28	28		

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

The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on pp. 570 to 571. Without sensor Pulse sensor Lock sensor

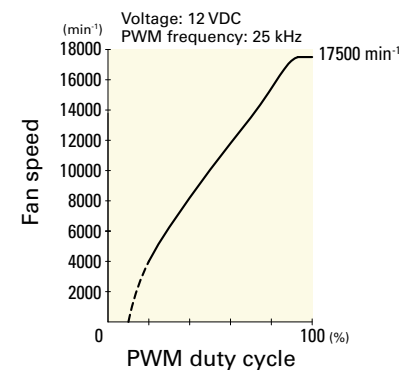
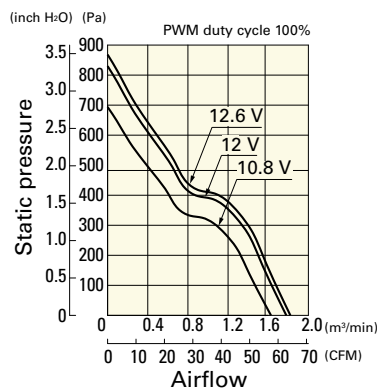
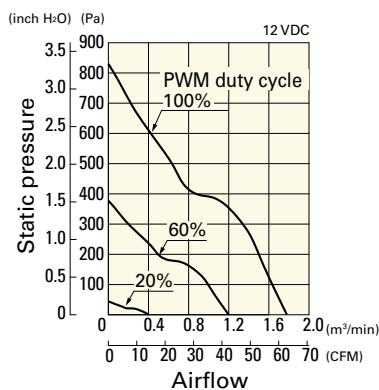
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0612P1J03 With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

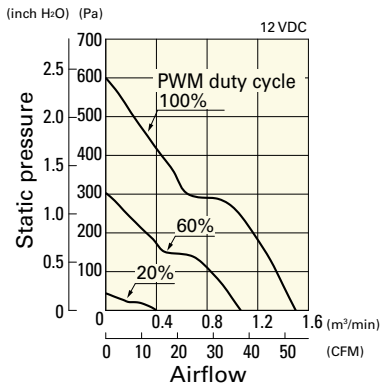
PWM duty - Speed characteristics example



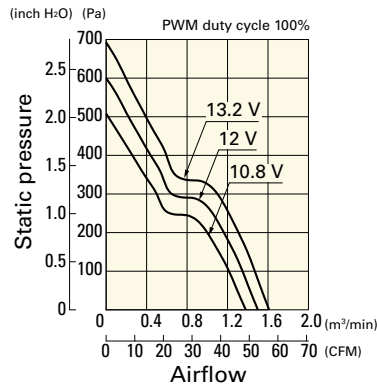
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0612P1K03 With pulse sensor with PWM control function

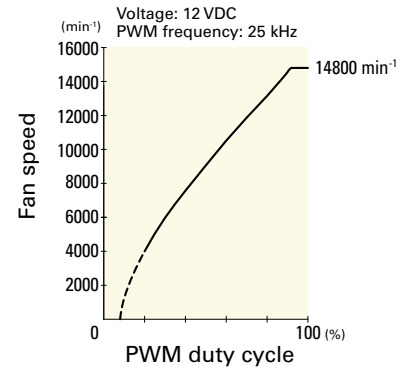
PWM duty cycle



Operating voltage range

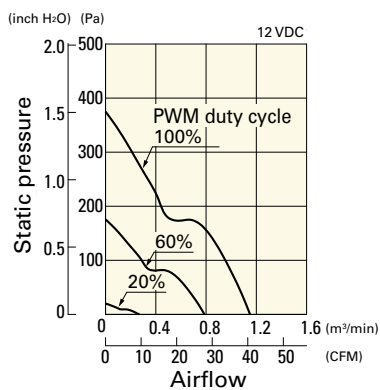


PWM duty - Speed characteristics example

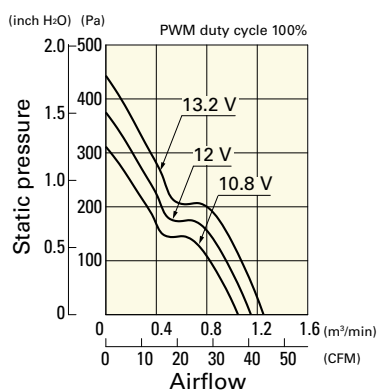


9GA0612P1H03 With pulse sensor with PWM control function

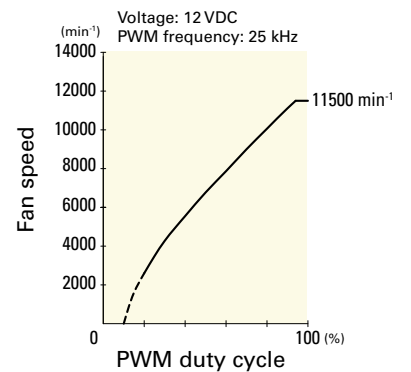
PWM duty cycle



Operating voltage range

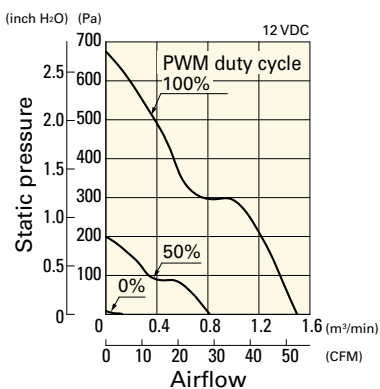


PWM duty - Speed characteristics example

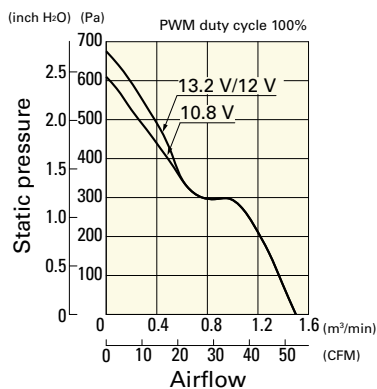


9GA0612P1K60 With pulse sensor with PWM control function

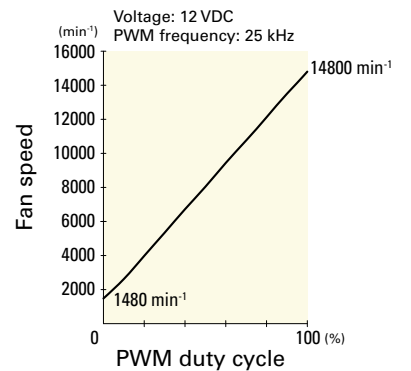
PWM duty cycle



Operating voltage range

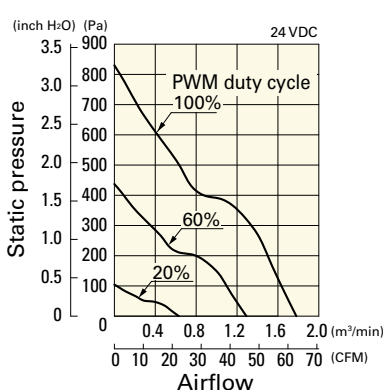


PWM duty - Speed characteristics example

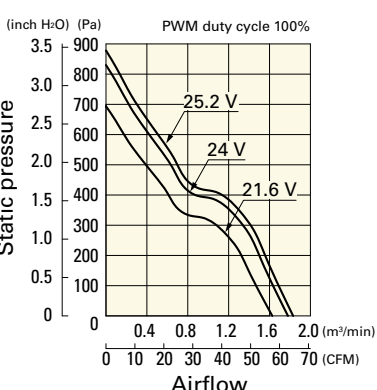


9GA0624P1J03 With pulse sensor with PWM control function

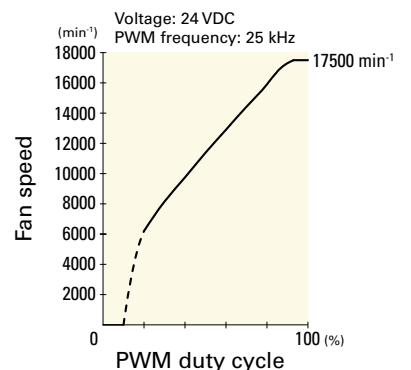
PWM duty cycle



Operating voltage range



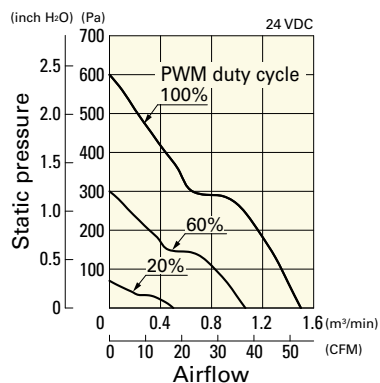
PWM duty - Speed characteristics example



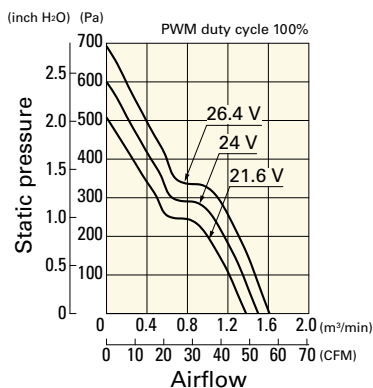
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0624P1K03 With pulse sensor with PWM control function

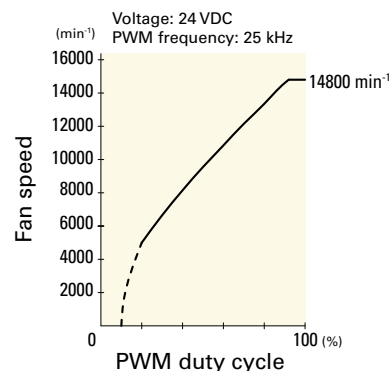
PWM duty cycle



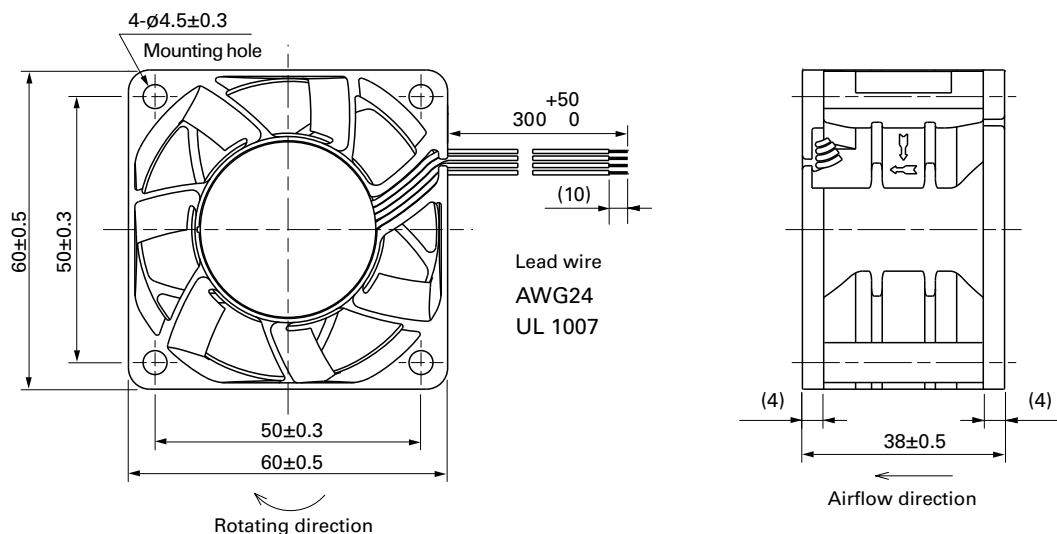
Operating voltage range



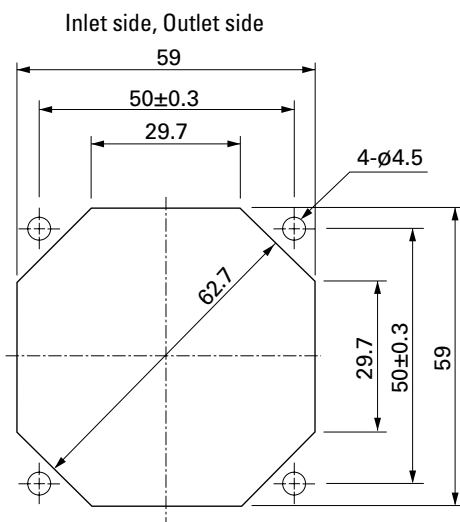
PWM duty - Speed characteristics example



Dimensions (unit: mm) (With ribs)



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



Options

Finger guards

page: p. 532

Model no.: 109-139E, 109-139H

Resin finger guards

page: p. 539

Model no.: 109-1003G

Resin filter kits

page: p. 540

Model no.: 109-1003F13 (13PPI), 109-1003F20 (20PPI),
109-1003F30 (30PPI), 109-1003F40 (40PPI)