

DC Fan

92×92×25 mm

San Ace 92 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
(For models without PWM control function, there is no speed control wiring.)
- Mass 125 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]
» 9GA0912P4J03	12	10.2 to 13.8	100	0.39	4.68	5000	2.2	77.7	105	0.42	43	-20 to +70	60000/60°C (90000/40°C)
			0	0.06	0.72	1500	0.65	23.3	9.4	0.04	14		
» 9GA0912P4G03			100	0.28	3.36	4400	1.93	68.2	81	0.33	39		
			0	0.06	0.72	1500	0.65	23.3	9.4	0.04	14		
» 9GA0912P4S03	24	20.4 to 27.6	100	0.2	2.4	3800	1.67	59.0	60.6	0.24	35		
			0	0.06	0.72	1500	0.65	23.3	9.4	0.04	14		
» 9GA0924P4J03			100	0.2	4.8	5000	2.2	77.7	105	0.42	43		
			0	0.04	0.96	1500	0.65	23.3	9.4	0.04	14		
» 9GA0924P4G03			100	0.15	3.6	4400	1.93	68.2	81	0.33	39		
			0	0.04	0.96	1500	0.65	23.3	9.4	0.04	14		
» 9GA0924P4S03			100	0.12	2.88	3800	1.67	59.0	60.6	0.24	35		
			0	0.04	0.96	1500	0.65	23.3	9.4	0.04	14		

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

The models listed below **have ribs and pulse sensors.** For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	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]
» 9GA0912H401	12	10.2 to 13.8	0.19	2.28	3300	1.45	51.2	45.6	0.18	31	-20 to +70	60000/60°C (90000/40°C)
» 9GA0912W401		7 to 16	0.19	2.28	3300	1.45	51.2	45.6	0.18	31		
» 9GA0912F401		10.2 to 13.8	0.14	1.68	2800	1.23	43.5	32.9	0.13	28		
» 9GA0912M401			0.11	1.32	2400	1.05	37.1	24	0.096	24		
» 9GA0912L401			0.09	1.08	2000	0.87	30.7	16.7	0.067	21		
» 9GA0924H401	24	20.4 to 27.6	0.09	2.16	3300	1.45	51.2	45.6	0.18	31		
» 9GA0924W401		12 to 28.8	0.09	2.16	3300	1.45	51.2	45.6	0.18	31		
» 9GA0924F401		16 to 27.6	0.08	1.92	2800	1.23	43.5	32.9	0.13	28		
» 9GA0924M401		14 to 27.6	0.05	1.2	2400	1.05	37.1	24	0.096	24		
» 9GA0924L401			0.03	0.72	2000	0.87	30.7	16.7	0.067	21		

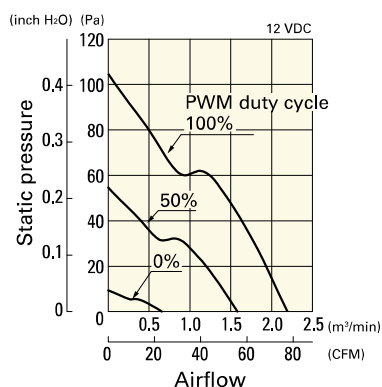
Note 1: Sensor and control options are available for selection. Refer to the table on pp. 630 to 631.

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

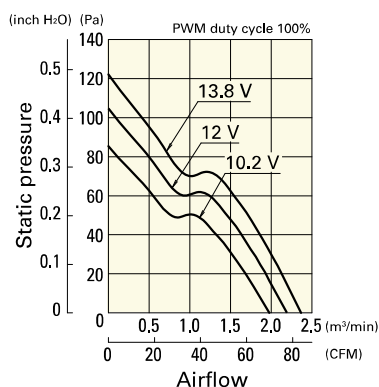
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0912P4J03 With pulse sensor with PWM control function

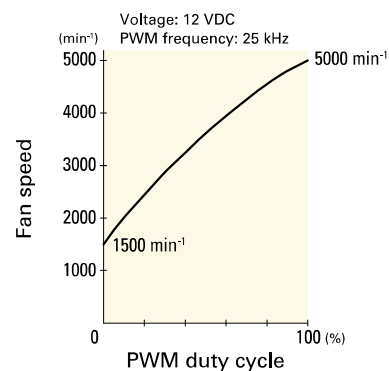
PWM duty cycle



Operating voltage range

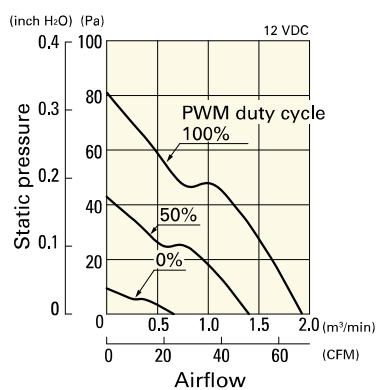


PWM duty - Speed characteristics example

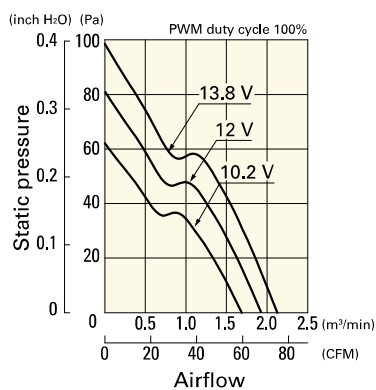


9GA0912P4G03 With pulse sensor with PWM control function

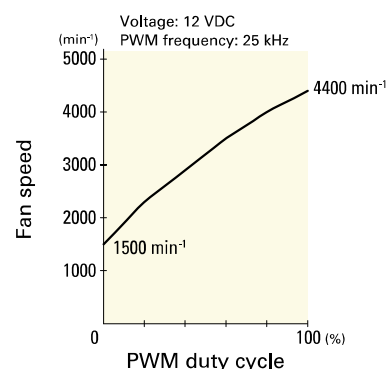
PWM duty cycle



Operating voltage range

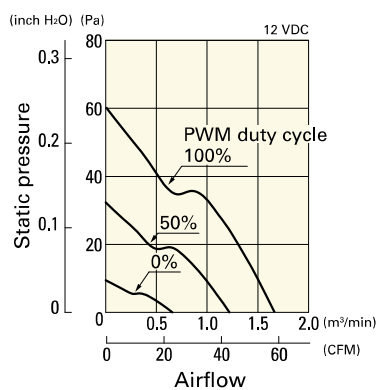


PWM duty - Speed characteristics example

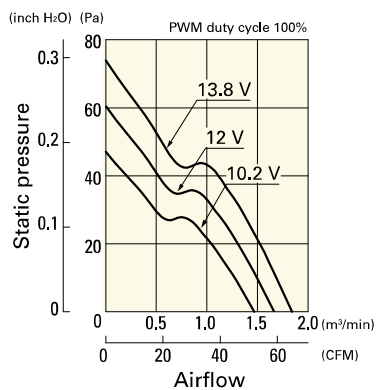


9GA0912P4S03 With pulse sensor with PWM control function

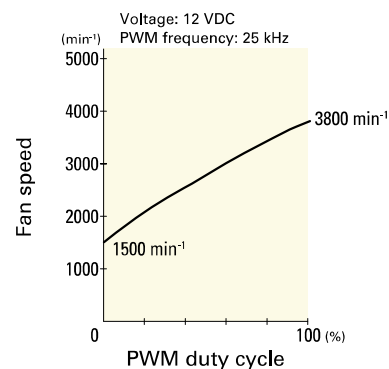
PWM duty cycle



Operating voltage range

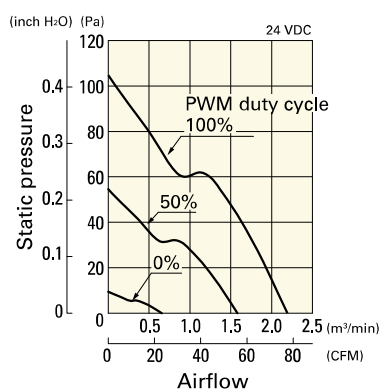


PWM duty - Speed characteristics example

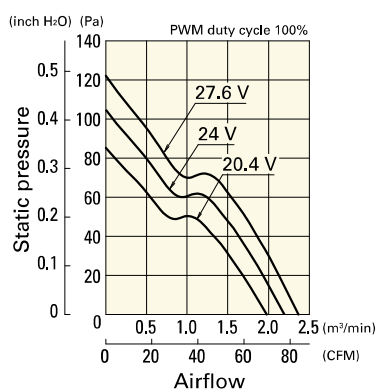


9GA0924P4J03 With pulse sensor with PWM control function

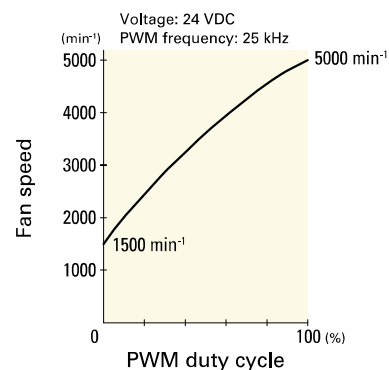
PWM duty cycle



Operating voltage range



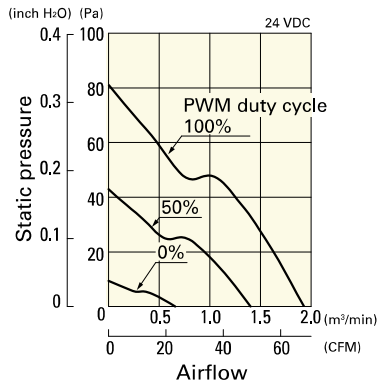
PWM duty - Speed characteristics example



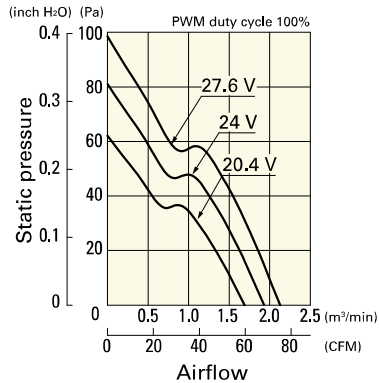
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0924P4G03 With pulse sensor with PWM control function

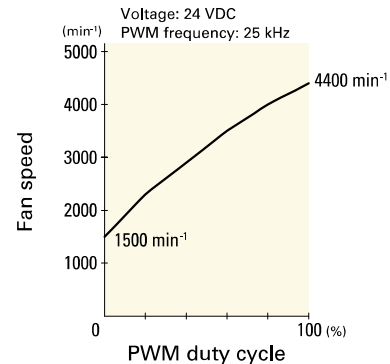
PWM duty cycle



Operating voltage range

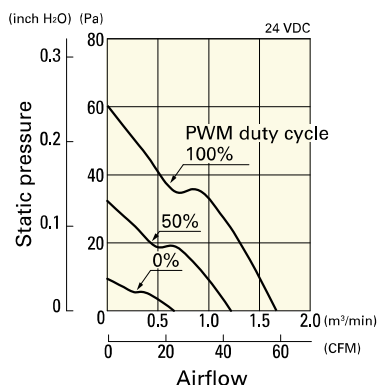


PWM duty - Speed characteristics example

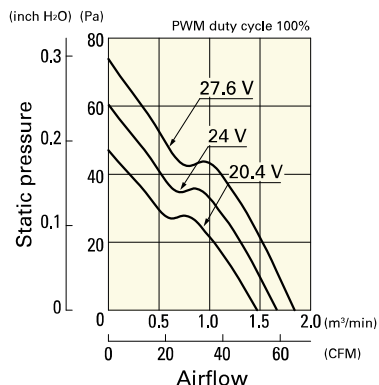


9GA0924P4S03 With pulse sensor with PWM control function

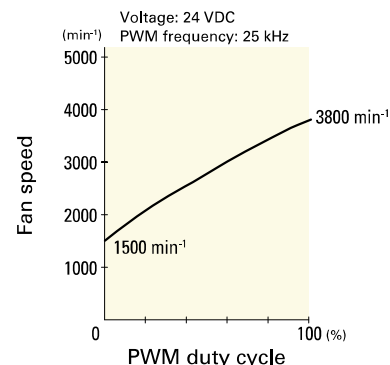
PWM duty cycle



Operating voltage range



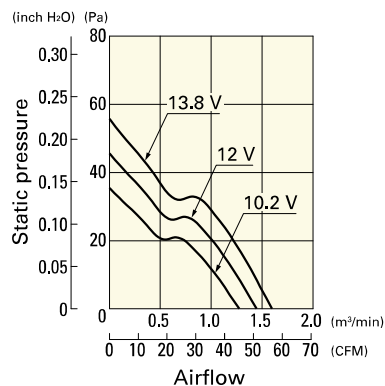
PWM duty - Speed characteristics example



Airflow - Static Pressure Characteristics

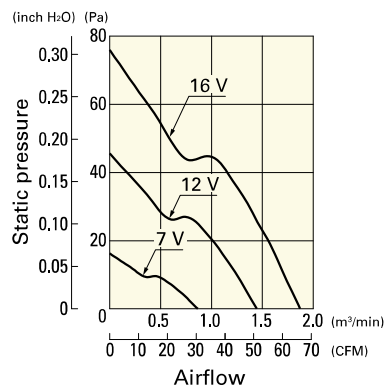
9GA0912H401 With pulse sensor

Operating voltage range



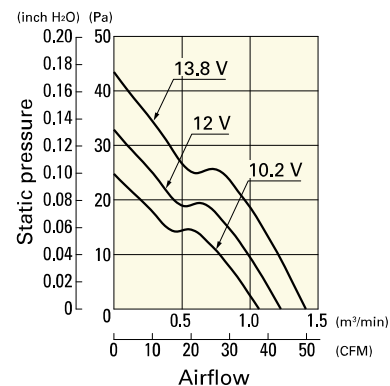
9GA0912W401 With pulse sensor

Operating voltage range



9GA0912F401 With pulse sensor

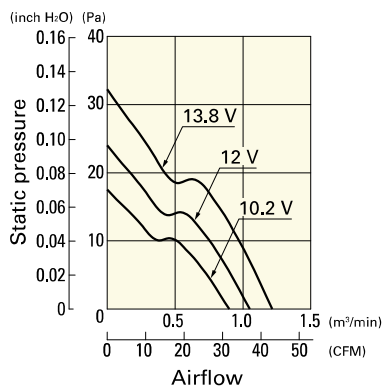
Operating voltage range



Airflow - Static Pressure Characteristics

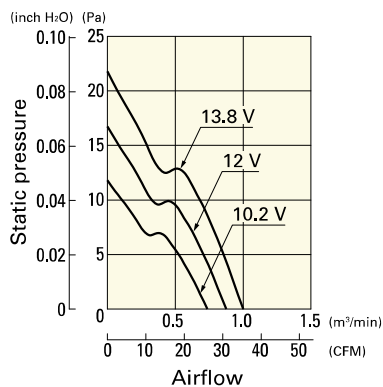
9GA0912M401 With pulse sensor

Operating voltage range



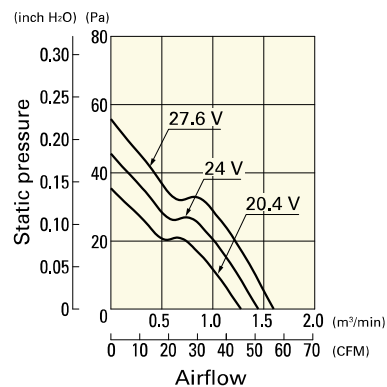
9GA0912L401 With pulse sensor

Operating voltage range



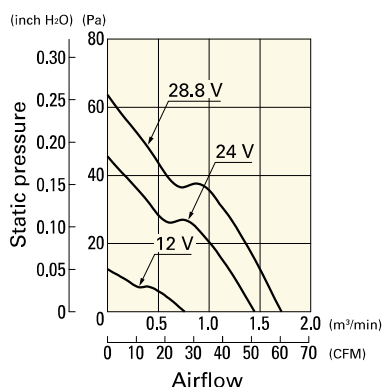
9GA0924H401 With pulse sensor

Operating voltage range



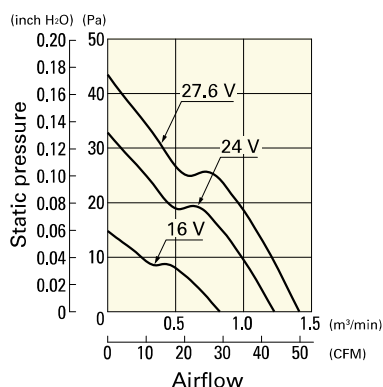
9GA0924W401 With pulse sensor

Operating voltage range



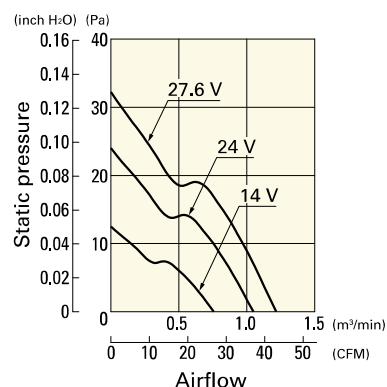
9GA0924F401 With pulse sensor

Operating voltage range



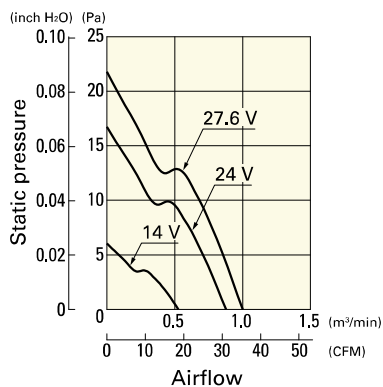
9GA0924M401 With pulse sensor

Operating voltage range

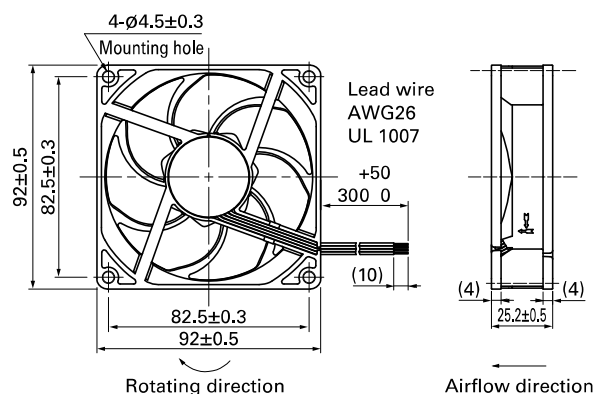


9GA0924L401 With pulse sensor

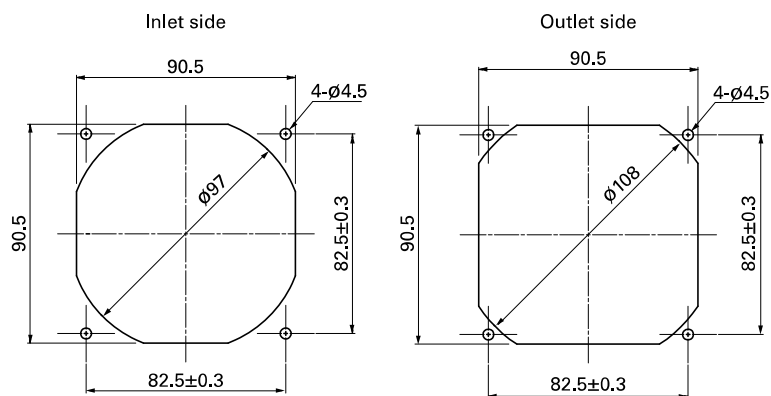
Operating voltage range



Dimensions (unit: mm) (Ribbed frame with pulse sensor with PWM control function)



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



Options

Finger guards

page: p. 584

Model no.: 109-099E, 109-099H, 109-099C

Resin finger guards

page: p. 591

Model no.: 109-1001G

Resin filter kits

page: p. 592

Model no.: 109-1001F13 (13PPI), 109-1001F20 (20PPI),
109-1001F30 (30PPI), 109-1001F40 (40PPI)