

80×80×25 mm

San Ace 80 9S type Silent Fan   Model 9S0812H401 is not TÜV certified.



General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- 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. 616.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) A-weighted 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
- Mass 75 g

Specifications

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

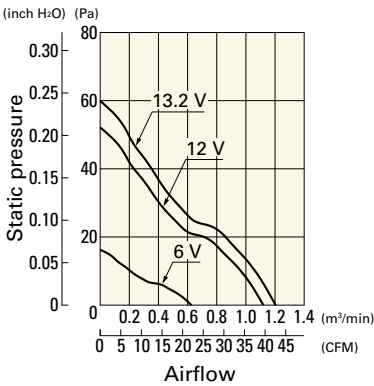
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9S0812H401	12	6 to 13.2	0.23	2.76	3400	1.12 39.5	52.15 0.2	31	-10 to +70	40000/60°C (70000/40°C)
9S0812F401		6 to 13.8	0.11	1.32	2800	0.93 32.8	35.5 0.143	24		
9S0812M401		7 to 13.8	0.08	0.96	2500	0.83 29.3	27.5 0.11	22		
9S0812L401			0.05	0.6	2000	0.66 23.3	18.1 0.073	16		
9S0824M401	24	10 to 26.4	0.06	1.44	2500	0.83 29.3	27.5 0.11	22		
9S0824L401			0.04	0.96	2000	0.66 23.3	18.1 0.073	16		

Note: Sensor and control options are available for selection. Refer to the table on p. 659.

Airflow - Static Pressure Characteristics

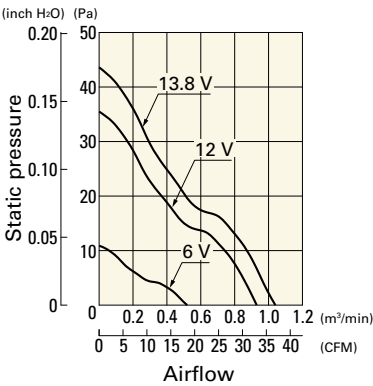
9S0812H401 With pulse sensor

Operating voltage range



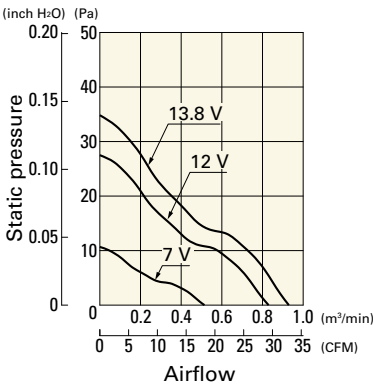
9S0812F401 With pulse sensor

Operating voltage range



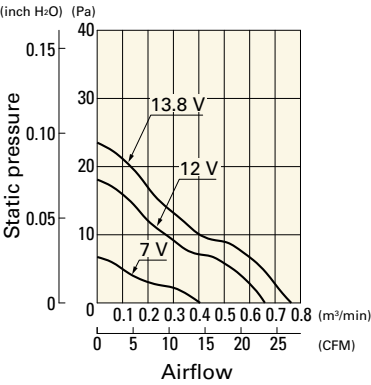
9S0812M401 With pulse sensor

Operating voltage range



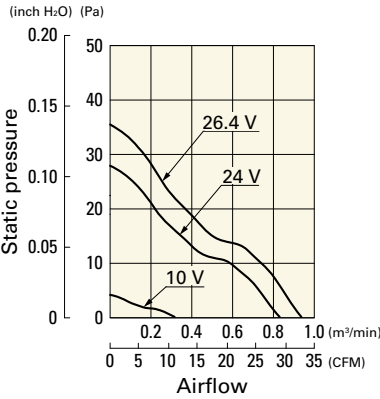
9S0812L401 With pulse sensor

Operating voltage range



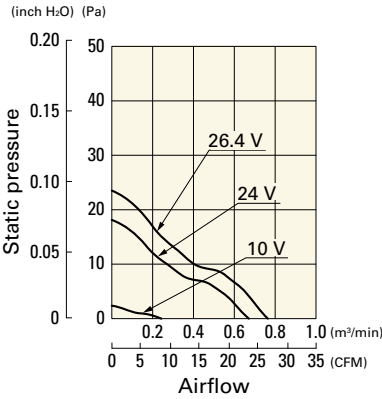
9S0824M401 With pulse sensor

Operating voltage range

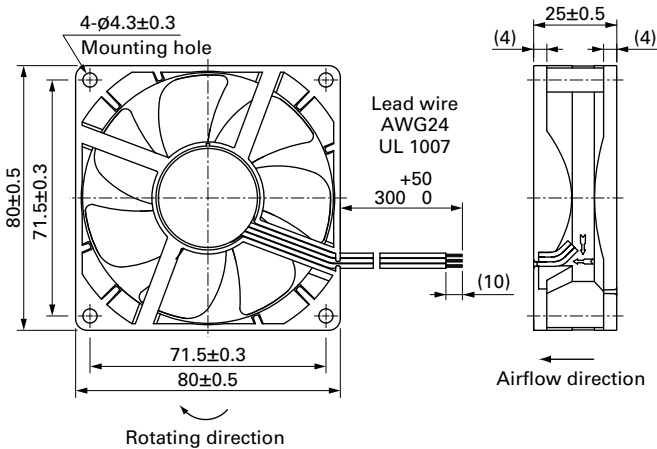


9S0824L401 With pulse sensor

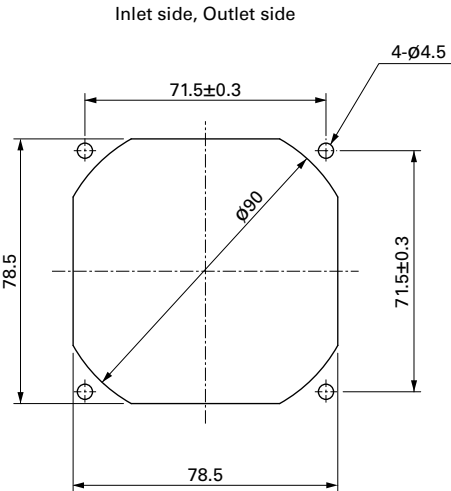
Operating voltage range



Dimensions (unit: mm) (With ribs)



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



Options

Finger guards

page: p. 598

Model no.: 109-049E, 109-049H

Resin finger guards

page: p. 605

Model no.: 109-1002G

Resin filter kits

page: p. 606

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),
109-1002F30 (30PPI), 109-1002F40 (40PPI)

80×80×32 mm

San Ace 80 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. 616.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) A-weighted 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, there is no speed control wiring.)
- Mass 130 g

Specifications

The models listed below **have ribs and a pulse sensor with PWM control**. 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]
9GA0812P2S001	12	10.2 to 13.8	100	0.83	9.96	9700	2.45	86.5	360	1.45	57	-20 to +70	40000/60°C (70000/40°C)
0			0.08	0.96	2800	0.71	25.1	30	0.12	24			
9GA0812P2H001			100	0.59	7.08	8700	2.2	77.7	294	1.18	54		
0			0.05	0.6	2600	0.66	23.3	26	0.105	21			
9GA0812P2M001	12	10.2 to 12.6	100	0.35	4.2	6700	1.69	59.6	171	0.68	47	-20 to +55	
0			0.04	0.48	1400	0.35	12.3	7.5	0.03	10			
9GA0824P2S001	24	20.4 to 27.6	100	0.42	10.1	9700	2.45	86.5	360	1.45	57	-20 to +70	
0			0.05	1.2	2800	0.71	25.1	30	0.12	24			
9GA0848P2S001	48	40.8 to 55.2	100	0.22	10.56	9700	2.45	86.5	360	1.45	57	-10 to +70	
0			0.04	1.92	2800	0.71	25.1	30	0.12	24			

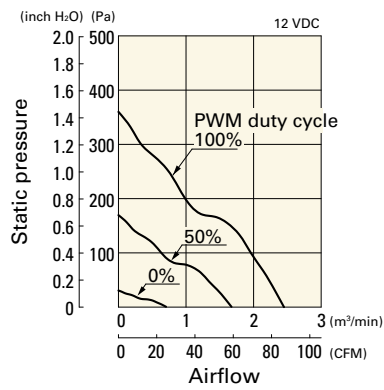
* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

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

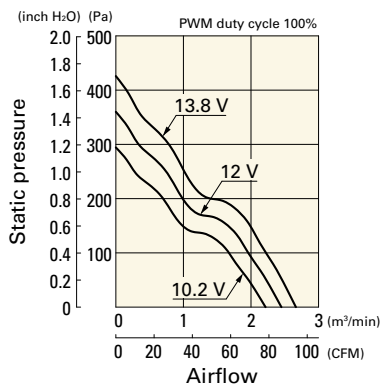
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GA0812A2001	12	6 to 13.2	0.31	3.72	6000	1.51 53.4	137.7 0.55	44	-20 to +70	40000/60°C (70000/40°C)
9GA0812B2001		6 to 13.8	0.13	1.56	4000	1.01 35.7	61.2 0.25	33		
9GA0812L2001		7 to 13.8	0.08	0.96	2600	0.66 23.3	26 0.1	21		
9GA0824A2001	24	12 to 26.4	0.15	3.6	6000	1.51 53.4	137.7 0.55	44		
9GA0824B2001		12 to 27.6	0.08	1.92	4000	1.01 35.7	61.2 0.25	33		
9GA0824L2001		14 to 27.6	0.05	1.2	2600	0.66 23.3	26 0.1	21		

Note: Sensor and control options are available for selection. Refer to the table on p. 649 to 650.

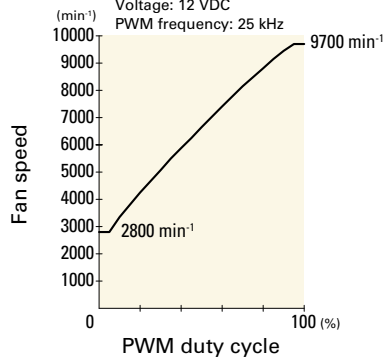
PWM duty cycle



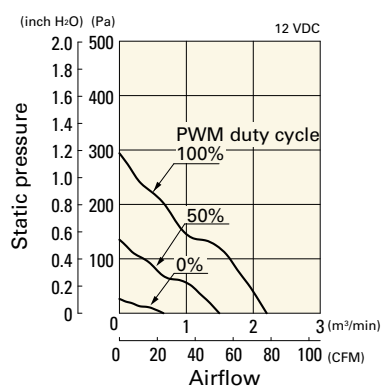
Operating voltage range



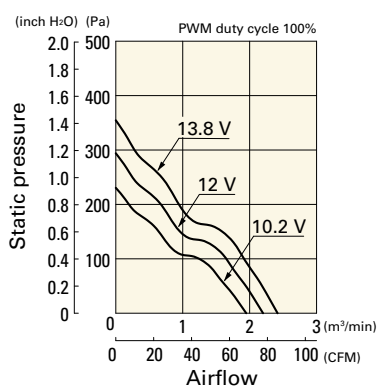
PWM duty - Speed characteristics example



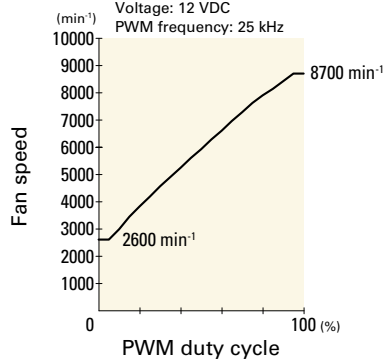
PWM duty cycle



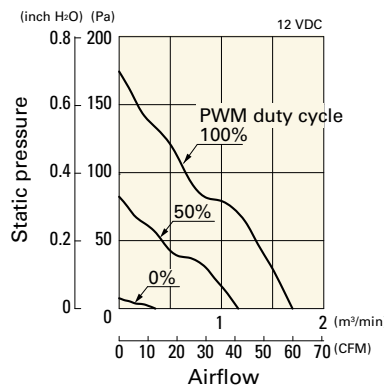
Operating voltage range



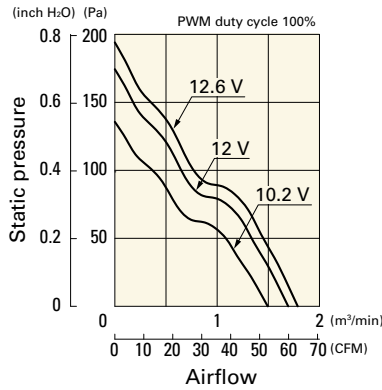
PWM duty - Speed characteristics example



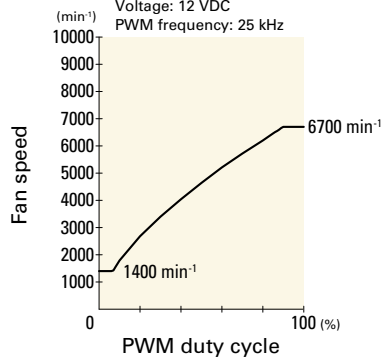
PWM duty cycle



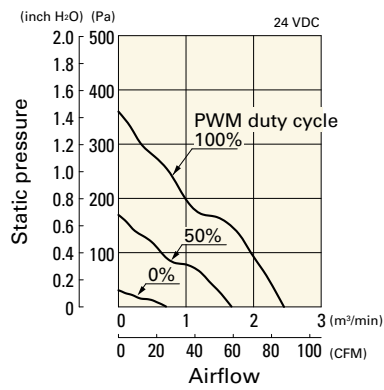
Operating voltage range



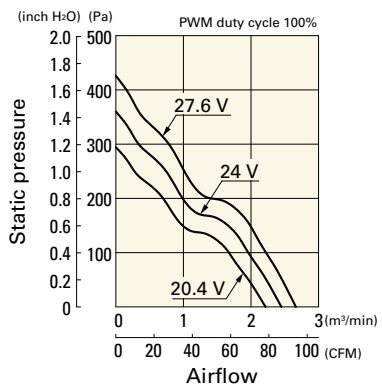
PWM duty - Speed characteristics example



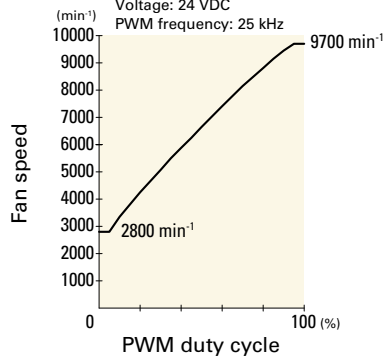
PWM duty cycle



Operating voltage range

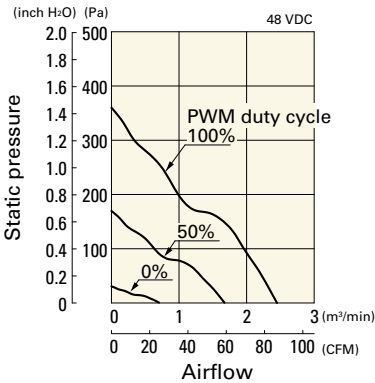


PWM duty - Speed characteristics example

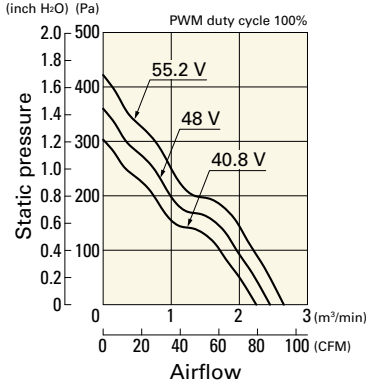


9GA0848P2S001 With pulse sensor with PWM control

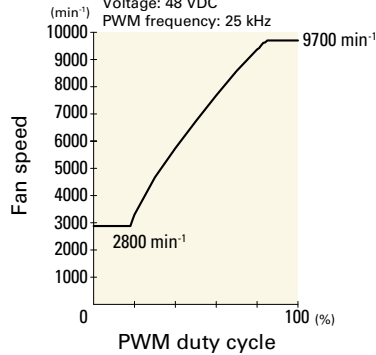
PWM duty cycle



Operating voltage range



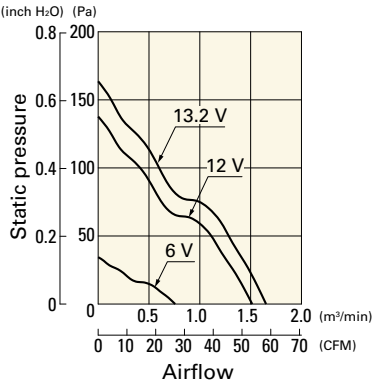
PWM duty - Speed characteristics example



Airflow - Static Pressure Characteristics

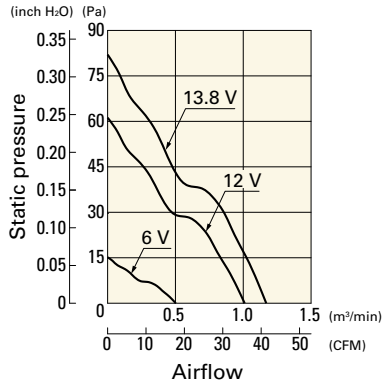
9GA0812A2001 With pulse sensor

Operating voltage range



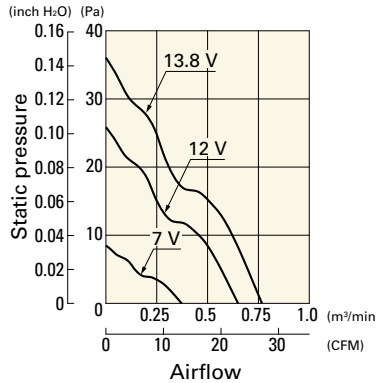
9GA0812B2001 With pulse sensor

Operating voltage range



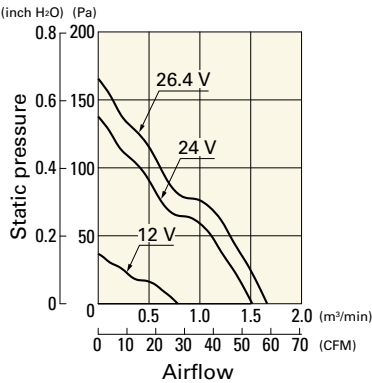
9GA0812L2001 With pulse sensor

Operating voltage range



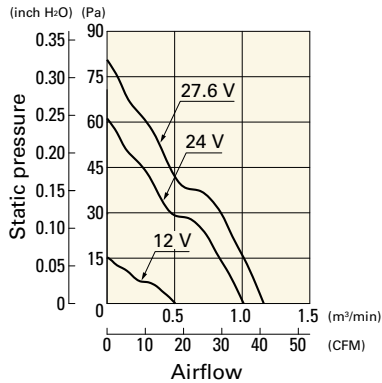
9GA0824A2001 With pulse sensor

Operating voltage range



9GA0824B2001 With pulse sensor

Operating voltage range



9GA0824L2001 With pulse sensor

Operating voltage range

