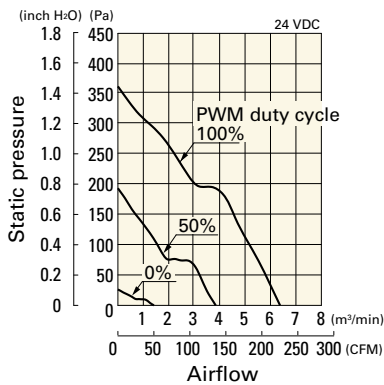
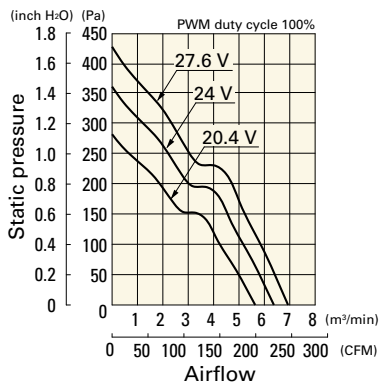


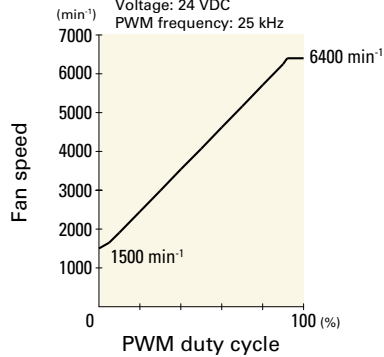
PWM duty cycle



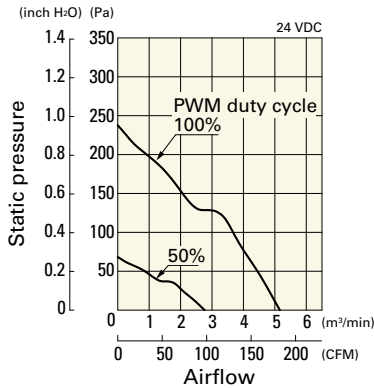
Operating voltage range



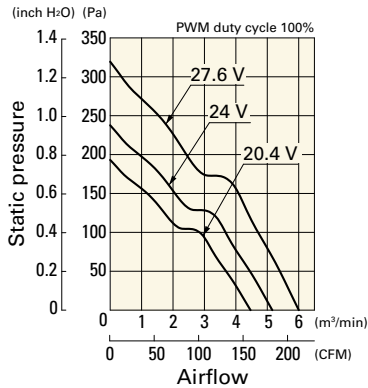
PWM duty - Speed characteristics example



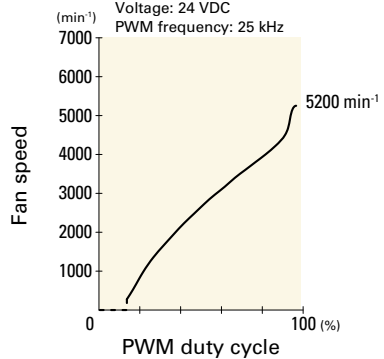
PWM duty cycle



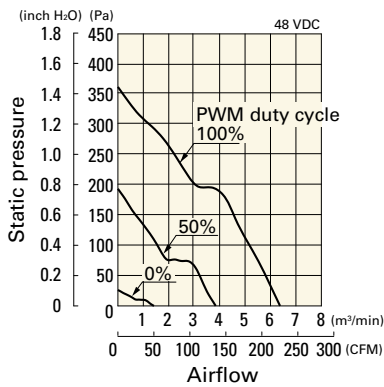
Operating voltage range



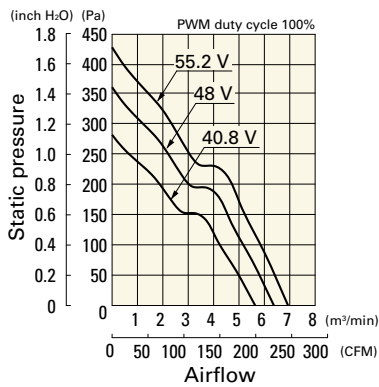
PWM duty - Speed characteristics example



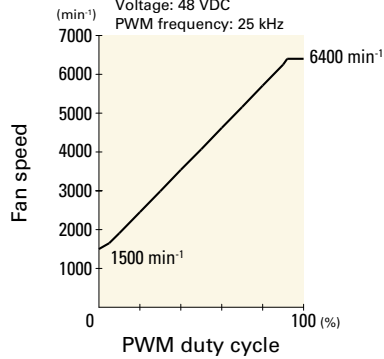
PWM duty cycle



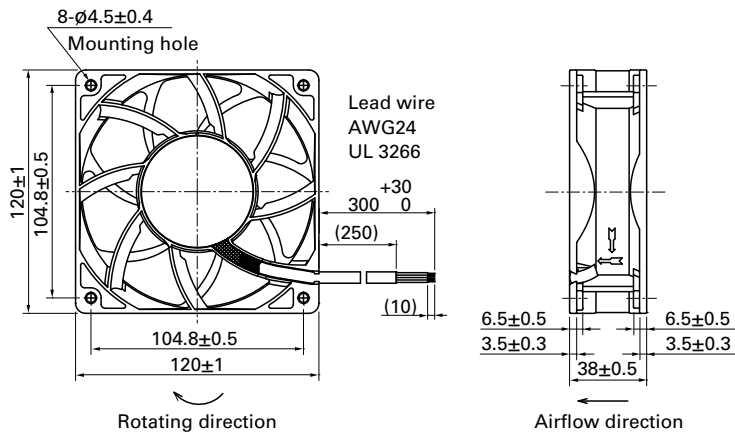
Operating voltage range

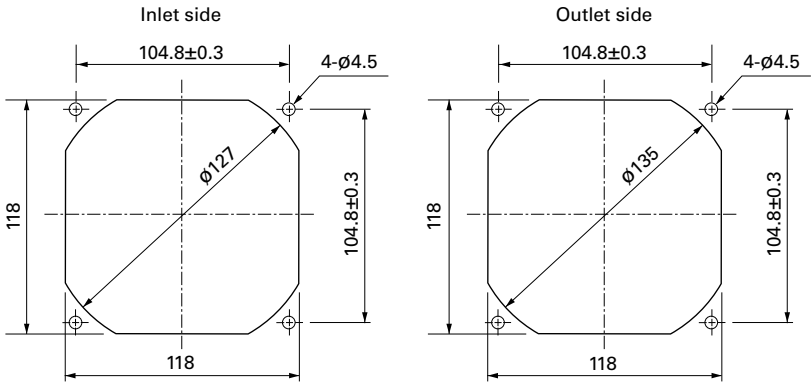


PWM duty - Speed characteristics example



Dimensions (unit: mm)





Options			
Finger guards		page: p. 599	
Model no.: 109-019E, 109-019K			
Resin finger guards		page: p. 605	
Model no.: 109-1000G			

120×120×38 mm

San Ace 120W 9WG type   

IP55



General Specifications

- Material Frame: Aluminum (Black coating), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in indoor 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 or Blue ☐Sensor Yellow
- Mass 410 g
- Ingress protection IP55 For more information on IP rating, refer to p. 625.

Specifications

The models listed below **have a pulse sensor**.

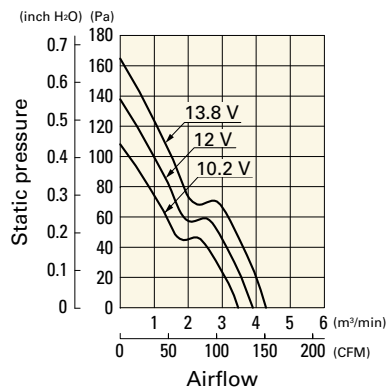
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WG1212G101-E	12	10.2 to 13.8	0.98	11.76	3600	3.88 137	135 0.542	49	-20 to +70	80000/60°C (115000/40°C)
9WG1212E101-E			0.61	7.32	3100	3.34 118	100 0.402	46		
9WG1212H101-E		7 to 13.8	0.38	4.56	2600	2.8 99	70.4 0.283	39		100000/60°C (135000/40°C)
9WG1212F101-E			0.28	3.36	2280	2.45 87	54.2 0.218	36		
9WG1212M101-E			0.21	2.52	1950	2.1 74	39.6 0.159	32		
9WG1224G101-E	24	20.4 to 27.6	0.5	12	3600	3.88 137	135 0.542	49		80000/60°C (115000/40°C)
9WG1224E101-E			0.34	8.16	3100	3.34 118	100 0.402	46		
9WG1224H101-E		14 to 27.6	0.22	5.28	2600	2.8 99	70.4 0.283	39		100000/60°C (135000/40°C)
9WG1224F101-E			0.16	3.84	2280	2.45 87	54.2 0.218	36		
9WG1224M101-E			0.11	2.64	1950	2.1 74	39.6 0.159	32		
9WG1248G101-E	48	40.8 to 55.2	0.25	12	3600	3.88 137	135 0.542	49		80000/60°C (115000/40°C)
9WG1248E101-E			0.17	8.16	3100	3.34 118	100 0.402	46		
9WG1248H101-E			0.11	5.28	2600	2.8 99	70.4 0.283	39		100000/60°C (135000/40°C)
9WG1248F101-E			0.09	4.32	2280	2.45 87	54.2 0.218	36		
9WG1248M101-E			0.07	3.36	1950	2.1 74	39.6 0.159	32		

Note: Sensor and control options are available for selection. Refer to the table on p. 660 to 661.

Airflow - Static Pressure Characteristics

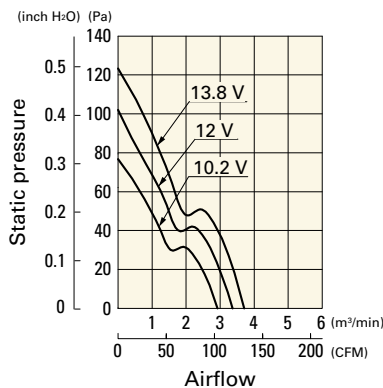
9WG1212G101-E With pulse sensor

Operating voltage range



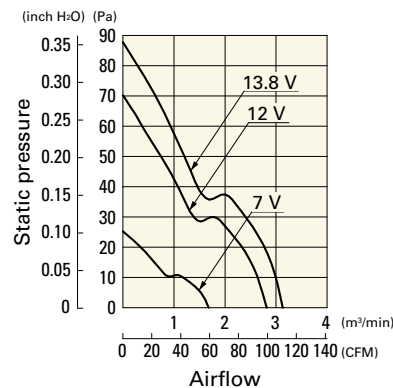
9WG1212E101-E With pulse sensor

Operating voltage range



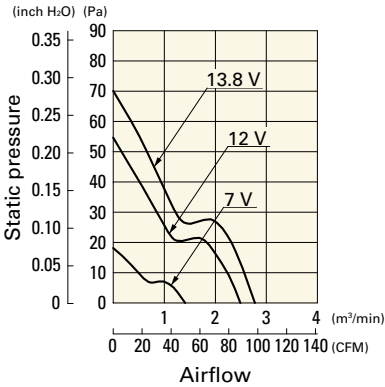
9WG1212H101-E With pulse sensor

Operating voltage range



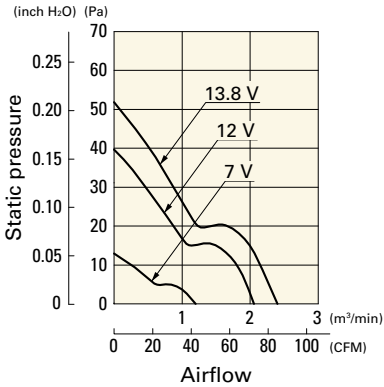
9WG1212F101-E With pulse sensor

Operating voltage range



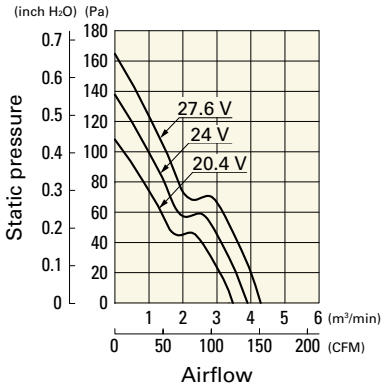
9WG1212M101-E With pulse sensor

Operating voltage range



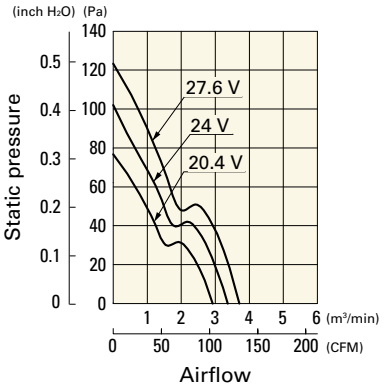
9WG1224G101-E With pulse sensor

Operating voltage range



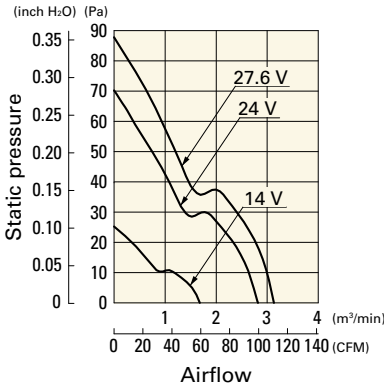
9WG1224E101-E With pulse sensor

Operating voltage range



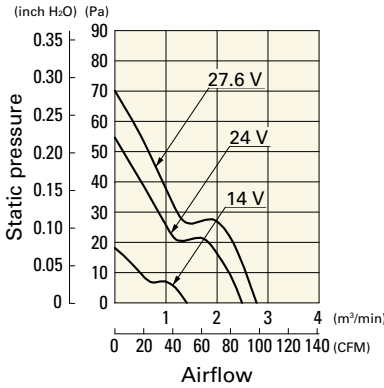
9WG1224H101-E With pulse sensor

Operating voltage range



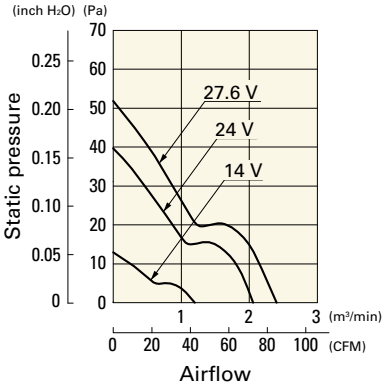
9WG1224F101-E With pulse sensor

Operating voltage range



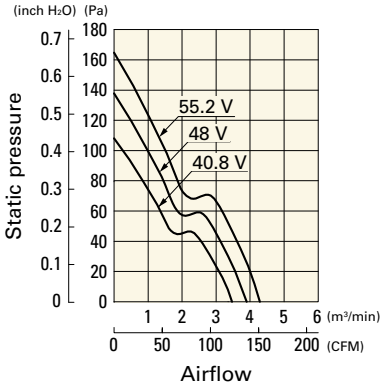
9WG1224M101-E With pulse sensor

Operating voltage range



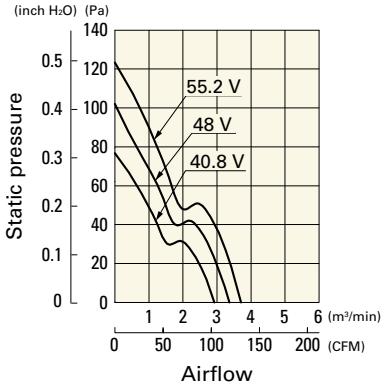
9WG1248G101-E With pulse sensor

Operating voltage range



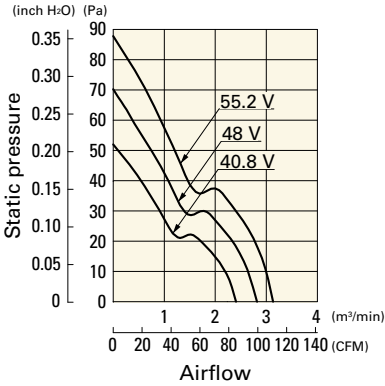
9WG1248E101-E With pulse sensor

Operating voltage range



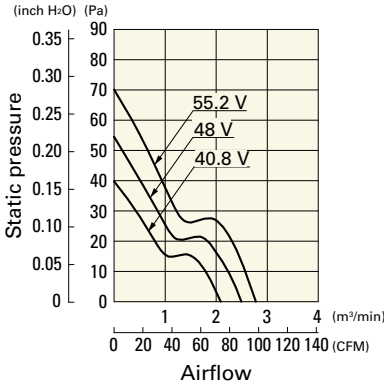
9WG1248H101-E With pulse sensor

Operating voltage range



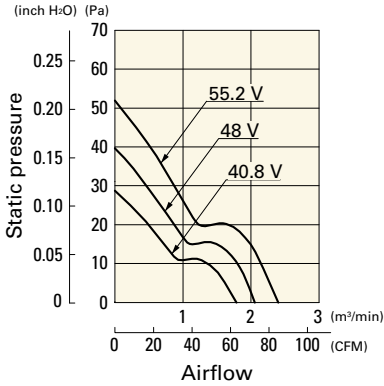
9WG1248F101-E With pulse sensor

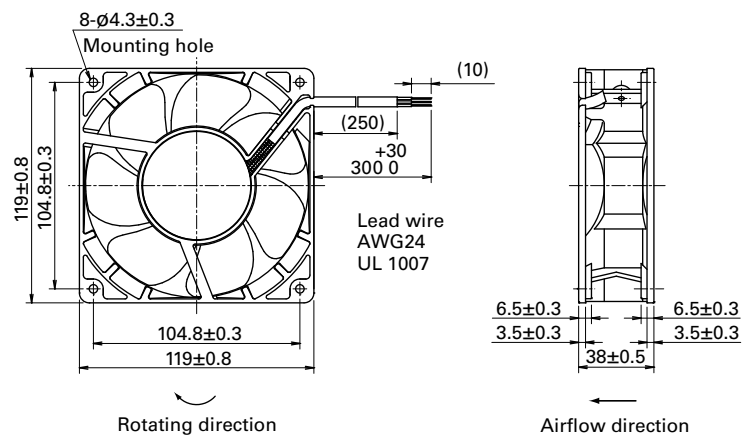
Operating voltage range



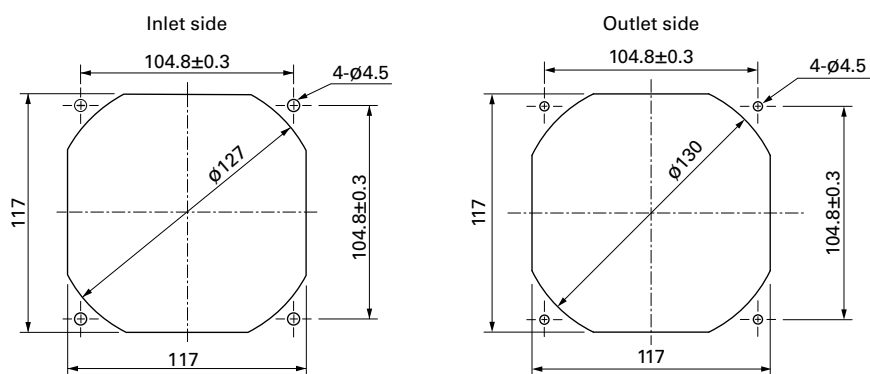
9WG1248M101-E With pulse sensor

Operating voltage range





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



Options

Finger guards

page: p. 599

Model no.: 109-019E, 109-019K

Resin finger guards

page: p. 605

Model no.: 109-1000G