



140x140x38 mm

San Ace 140 9GV type

General Specifications

- Material Frame: Aluminum, 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. 573.
- 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 630 g

Specifications

The models listed below **have pulse sensors with PWM control function.**

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]	
» 9GV1412P1G001	12	10.8 to 13.2	100	4.6	55.2	7600	8.8 310	640 2.57	70	-20 to +70	40000/60°C (70000/40°C)	
			20	0.26	3.12	2300	2.66 93	80 0.32	39			
» 9GV1412P1S001			100	3.1	37.2	6650	7.7 272	480 1.93	67			
			20	0.26	3.12	2300	2.66 93	80 0.32	39			
» 9GV1412P1H001			100	1.7	20.4	5200	6.0 212	300 1.2	62			
			20	0.26	3.12	2300	2.66 93	80 0.32	39			
» 9GV1424P1G001		24	21.6 to 26.4	100	2.3	55.2	7600	8.8 310	640 2.57			70
				20	0.13	3.12	2300	2.66 93	80 0.32			39
» 9GV1424P1S001				100	1.55	37.2	6650	7.7 272	480 1.93			67
				20	0.13	3.12	2300	2.66 93	80 0.32			39
» 9GV1424P1H001				100	0.85	20.4	5200	6.0 212	300 1.2			62
				20	0.13	3.12	2300	2.66 93	80 0.32			39
» 9GV1448P1G001	48	36 to 60	100	1.15	55.2	7600	8.8 310	640 2.57	70			
			20	0.11	5.28	2300	2.66 93	80 0.32	39			
» 9GV1448P1S001			100	0.78	37.44	6650	7.7 272	480 1.93	67			
			20	0.11	5.28	2300	2.66 93	80 0.32	39			
» 9GV1448P1H001			100	0.42	20.16	5200	6.0 212	300 1.2	62			
			20	0.11	5.28	2300	2.66 93	80 0.32	39			

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

The following sensor and control options are available for selection.

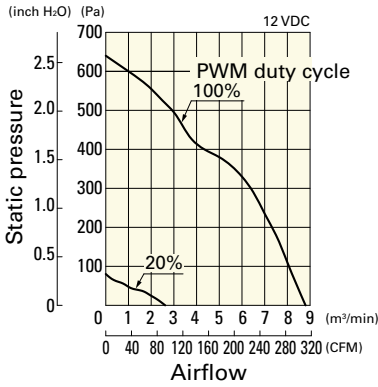
Differs according to the model. Refer to the table on p. 607. Without sensor Lock sensor

The » mark indicates Short LeadTime Service applicable models. See p. 626 for details.

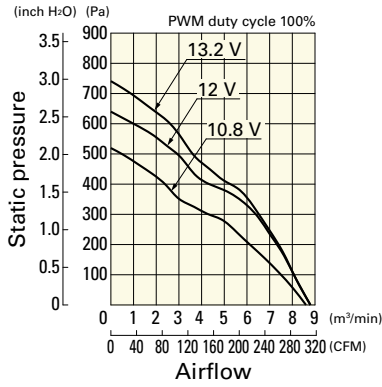
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1412P1G001 With pulse sensor with PWM control function

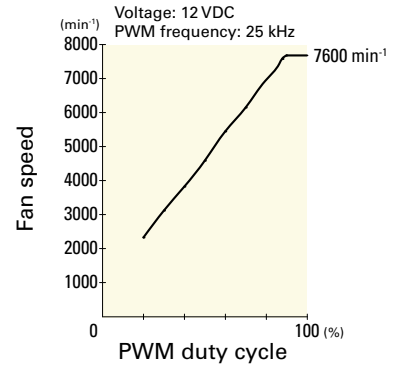
PWM duty cycle



Operating voltage range

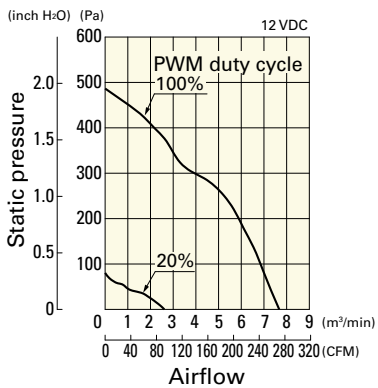


PWM duty - Speed characteristics example

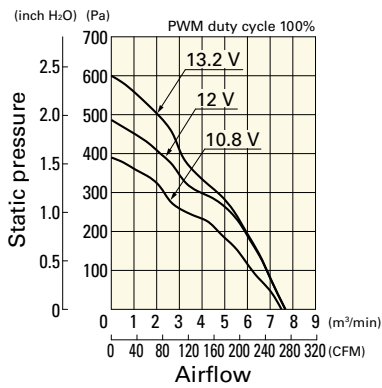


9GV1412P1S001 With pulse sensor with PWM control function

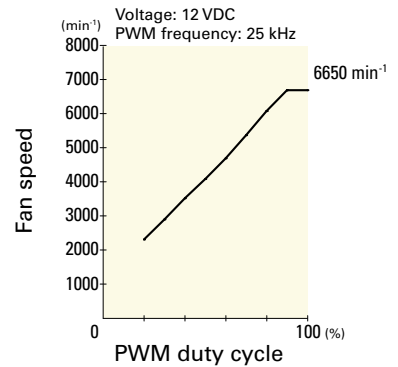
PWM duty cycle



Operating voltage range

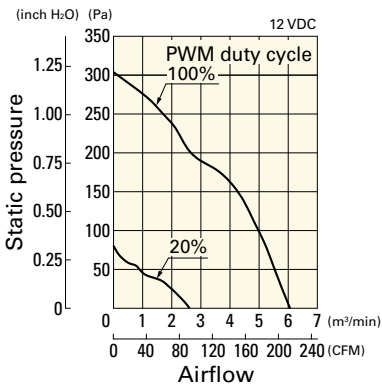


PWM duty - Speed characteristics example

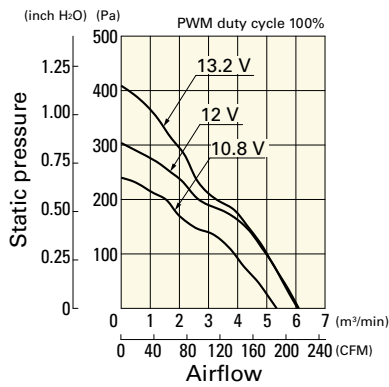


9GV1412P1H001 With pulse sensor with PWM control function

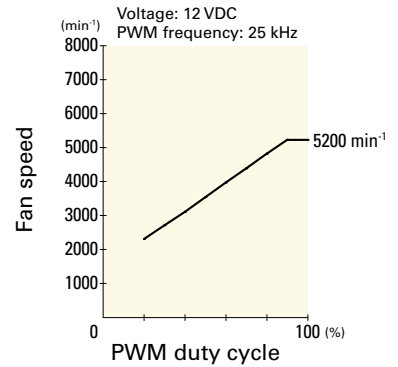
PWM duty cycle



Operating voltage range

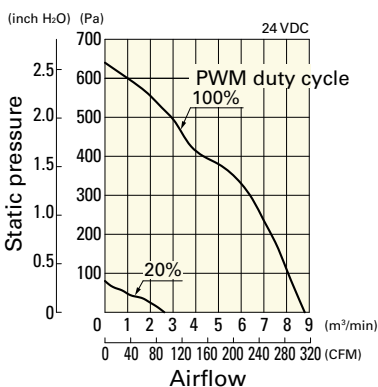


PWM duty - Speed characteristics example

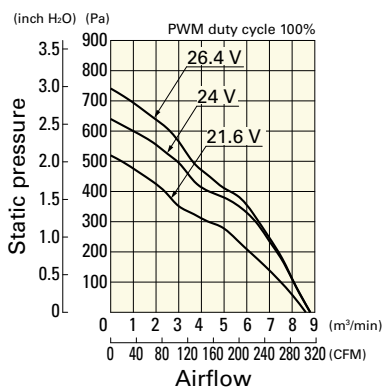


9GV1424P1G001 With pulse sensor with PWM control function

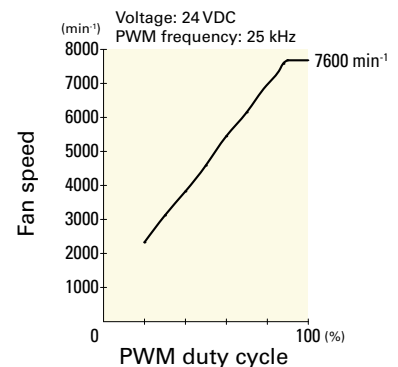
PWM duty cycle



Operating voltage range



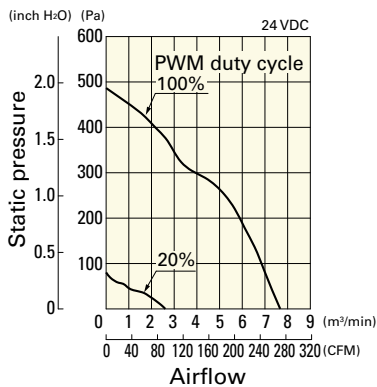
PWM duty - Speed characteristics example



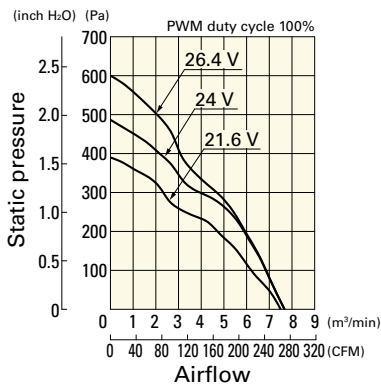
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1424P1S001 With pulse sensor with PWM control function

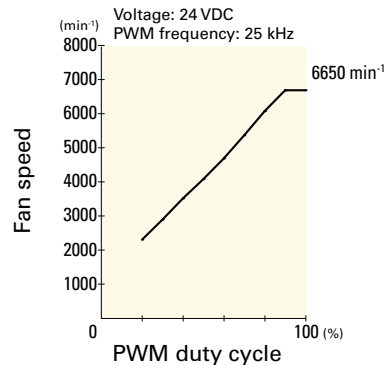
PWM duty cycle



Operating voltage range

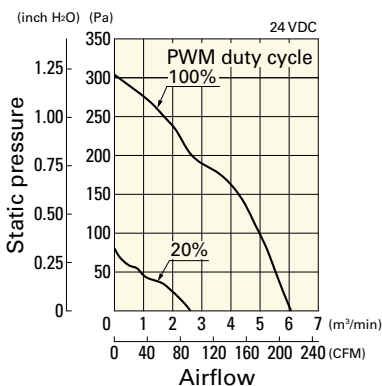


PWM duty - Speed characteristics example

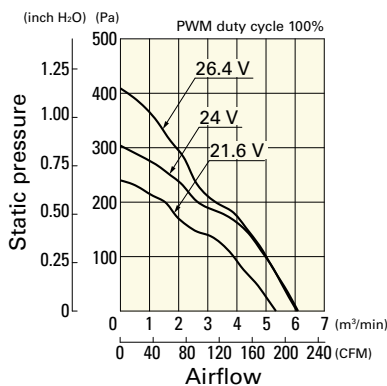


9GV1424P1H001 With pulse sensor with PWM control function

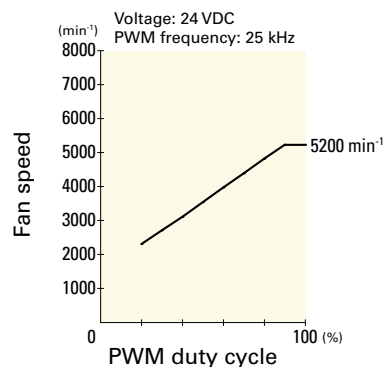
PWM duty cycle



Operating voltage range

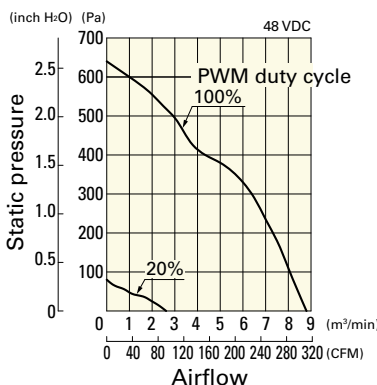


PWM duty - Speed characteristics example

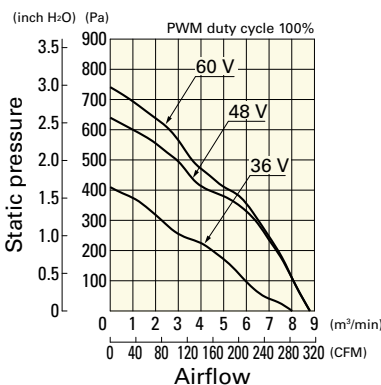


9GV1448P1G001 With pulse sensor with PWM control function

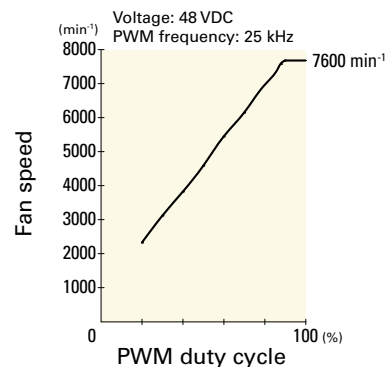
PWM duty cycle



Operating voltage range

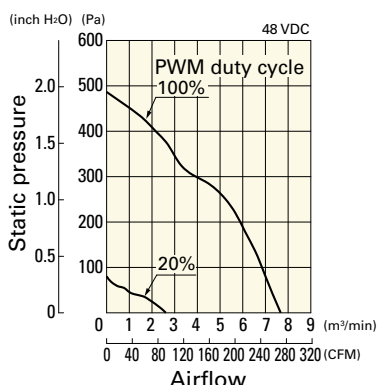


PWM duty - Speed characteristics example

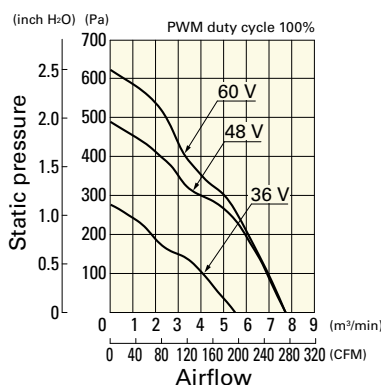


9GV1448P1S001 With pulse sensor with PWM control function

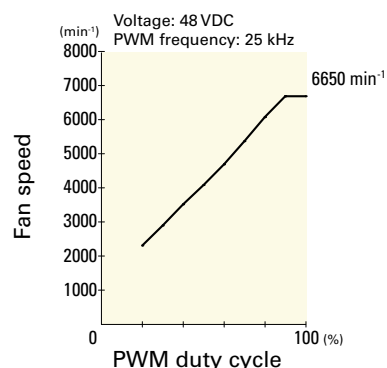
PWM duty cycle



Operating voltage range



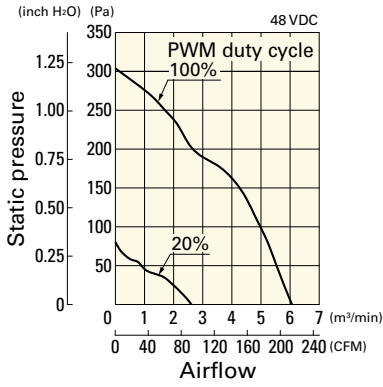
PWM duty - Speed characteristics example



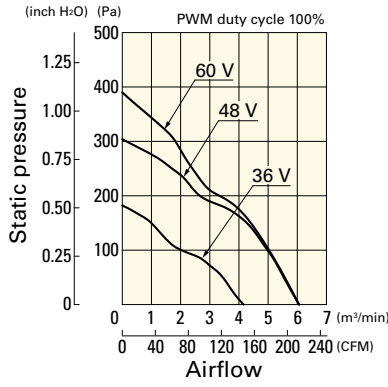
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GV1448P1H001 With pulse sensor with PWM control function

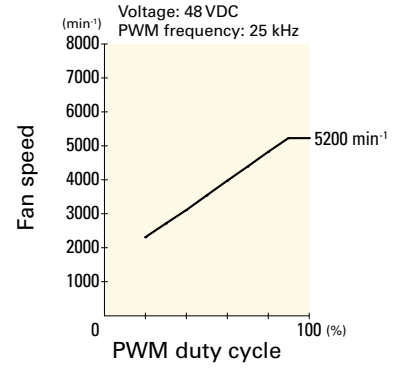
PWM duty cycle



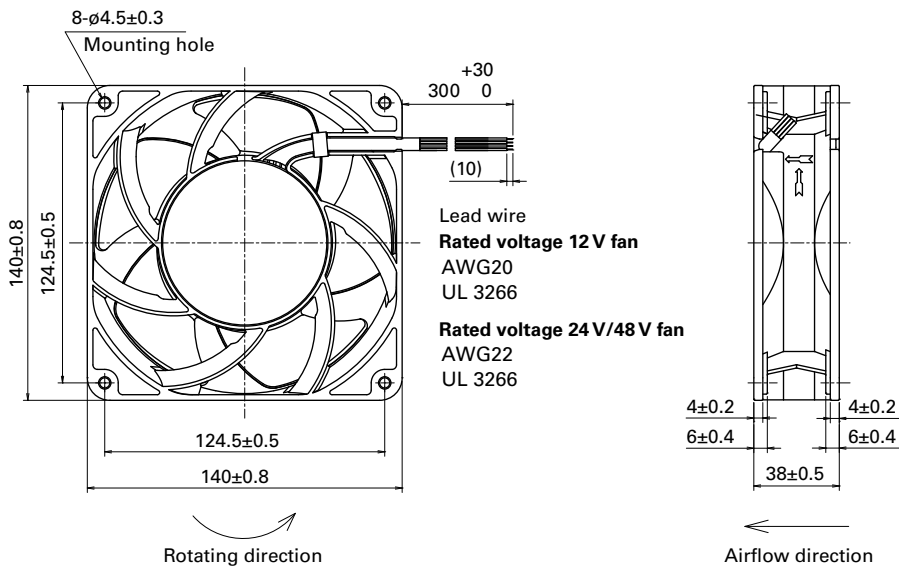
Operating voltage range



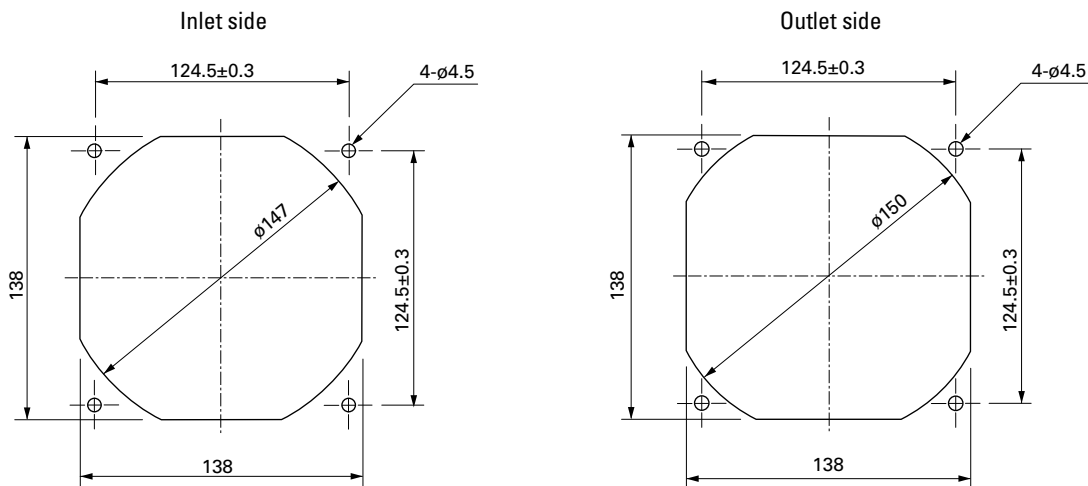
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards page: p. 559

Model no.: 109-719, 109-719H

140×140×38 mm



San Ace 140 9P type

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. 573.
- 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 or Blue Sensor Yellow
- Mass 450 g

Specifications

The models listed below **have ribs and pulse sensors.**

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]
109P1412H101	12	10.2 to 13.8	0.73	8.76	2600	4.5 159	94 0.378	46	-20 to +70	40000/60°C (70000/40°C)
109P1412M101			0.33	3.96	1900	3.3 117	52 0.209	38		
109P1424H101	24	20.4 to 27.6	0.37	8.88	2600	4.5 159	94 0.378	46		
109P1424M101			0.16	3.84	1900	3.3 117	52 0.209	38		
109P1448H101	48	40.8 to 55.2	0.2	9.6	2600	4.5 159	94 0.378	46		
109P1448M101			0.09	4.32	1900	3.3 117	52 0.209	38		

The following sensor and control options are available for selection.

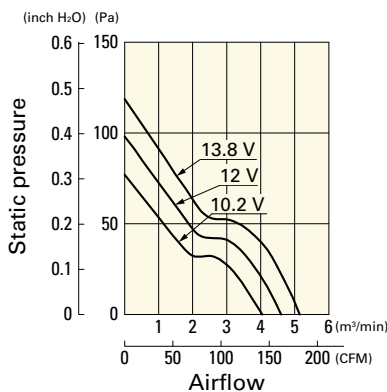
Available for all models. Without sensor

Differs according to the model. Refer to the table on p. 596. Lock sensor

Airflow - Static Pressure Characteristics

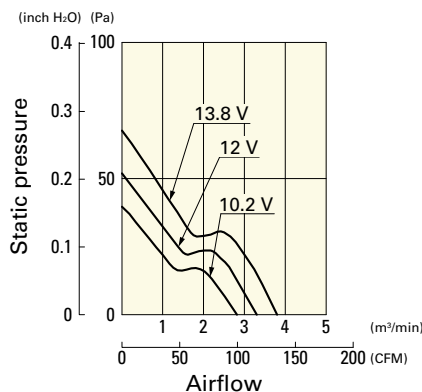
109P1412H101 With pulse sensor

Operating voltage range



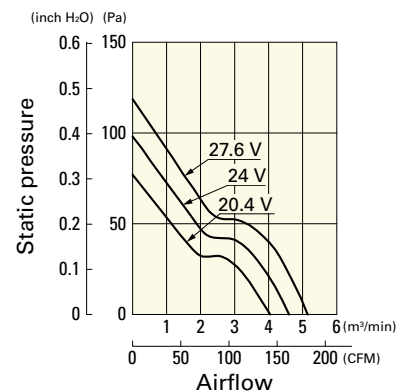
109P1412M101 With pulse sensor

Operating voltage range



109P1424H101 With pulse sensor

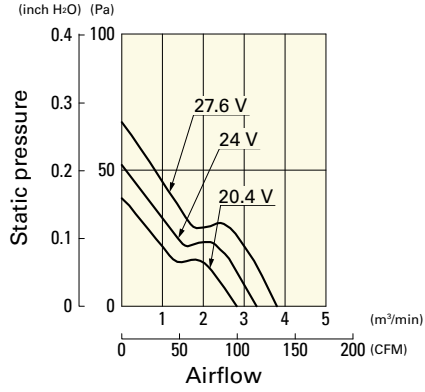
Operating voltage range



Airflow - Static Pressure Characteristics

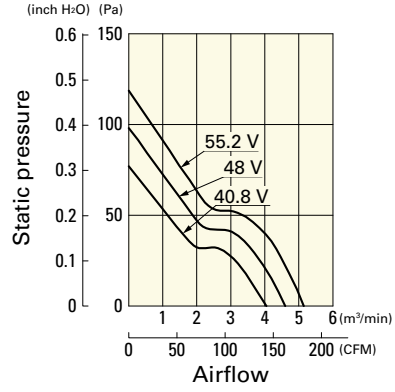
109P1424M101 With pulse sensor

Operating voltage range



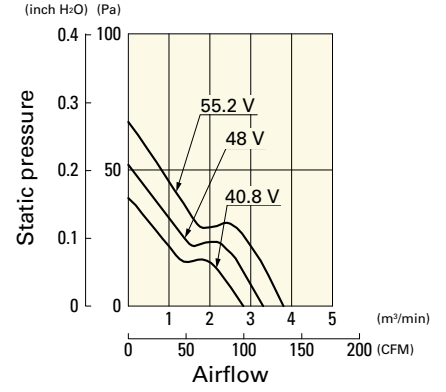
109P1448H101 With pulse sensor

Operating voltage range

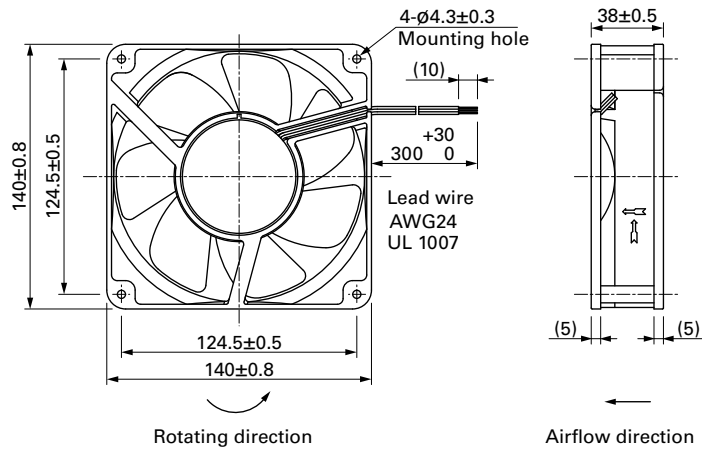


109P1448M101 With pulse sensor

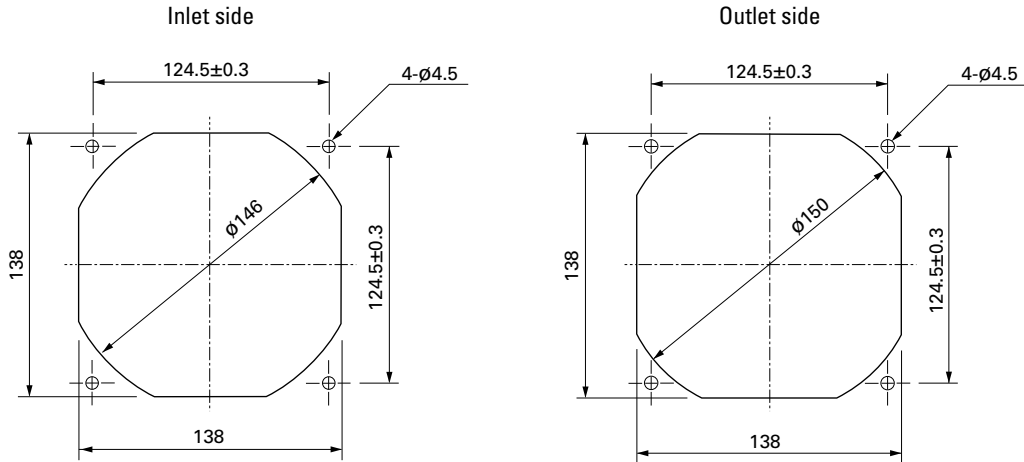
Operating voltage range



Dimensions (unit: mm)



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



Options

Finger guards page: p. 559

Model no.: 109-719, 109-719H