



140×140×38 mm

San Ace 140L 9LG type US

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 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
(For models without PWM control function, there is no speed control wiring.)
- Mass 640 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]
9LG1412P1A001	12	10.2 to 13.8	100	3.72	44.64	6900	8.0 282	516 2.07	68	-20 to +70	180000/60°C (215000/40°C)
			20	0.27	3.24	2300	2.66 93	80 0.32	39		
9LG1412P1H001			100	1.7	20.4	5200	6.0 212	300 1.2	62		
			20	0.27	3.24	2300	2.66 93	80 0.32	39		
9LG1412P1M001	12	10.2 to 13.8	100	0.6	7.2	3300	3.7 130	170 0.68	46		
			20	0.16	1.92	1300	1.45 51	26 0.1	29		
9LG1424P1A001	24	20.4 to 27.6	100	1.86	44.64	6900	8.0 282	516 2.07	68		
			20	0.17	4.08	2300	2.66 93	80 0.32	39		
9LG1424P1H001			100	0.85	20.4	5200	6.0 212	300 1.2	62		
			20	0.16	3.84	2300	2.66 93	80 0.32	39		
9LG1424P1M001	24	20.4 to 27.6	100	0.3	7.2	3300	3.7 130	170 0.68	46		
			20	0.11	2.64	1300	1.45 51	26 0.1	29		
9LG1448P1A001	48	40.8 to 55.2	100	0.92	44.16	6900	8.0 282	516 2.07	68		
			20	0.11	5.28	2300	2.66 93	80 0.32	39		
9LG1448P1H001			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		
9LG1448P1M001	48	40.8 to 55.2	100	0.15	7.2	3300	3.7 130	170 0.68	46		
			20	0.09	4.32	1300	1.45 51	26 0.1	29		

* 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. 609. **Without sensor** **Pulse sensor** **Lock sensor**

The models listed below **have 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]
9LG1412L1001	12	10.2 to 13.8	0.27	3.3	2300	2.6 91.9	80 0.32	39	-20 to +70	180000/60°C (215000/40°C)
9LG1424L1001	24	20.4 to 27.6	0.17	4.1	2300	2.6 91.9	80 0.32	39		
9LG1448L1001	48	40.8 to 55.2	0.11	5.3	2300	2.6 91.9	80 0.32	39		

The following sensor and control options are available for selection.

Available for all models. **Without sensor**

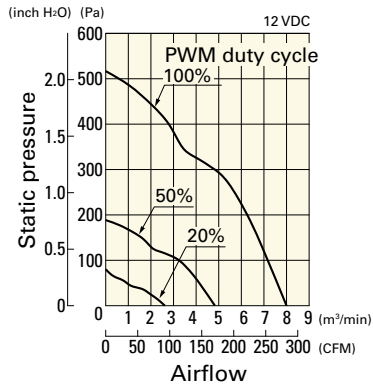
Differs according to the model. Refer to the table on p. 609. **Lock sensor**

The  mark indicates Short Lead Time Service applicable models. See p. 626 for details.

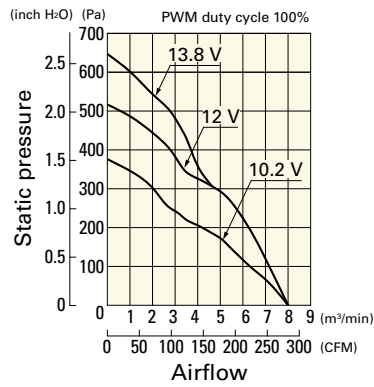
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1412P1A001 With pulse sensor with PWM control function

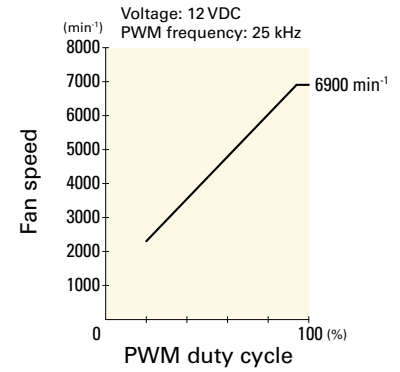
PWM duty cycle



Operating voltage range

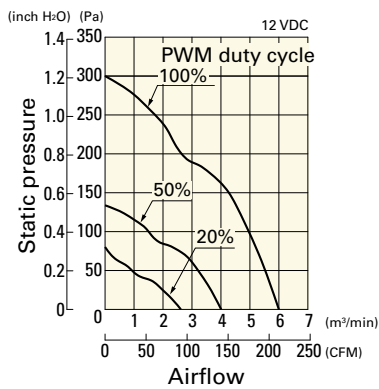


PWM duty - Speed characteristics example

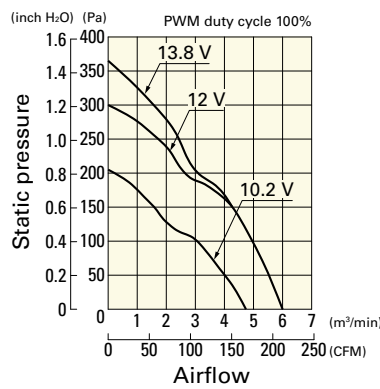


9LG1412P1H001 With pulse sensor with PWM control function

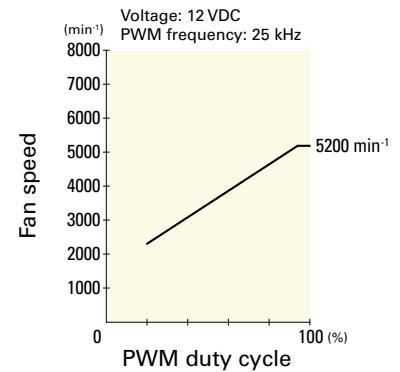
PWM duty cycle



Operating voltage range

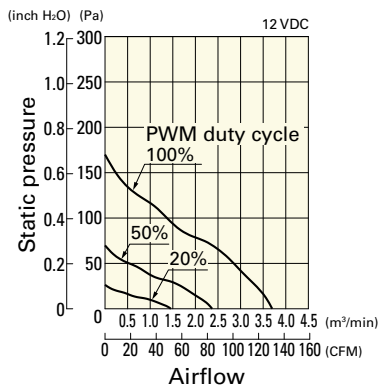


PWM duty - Speed characteristics example

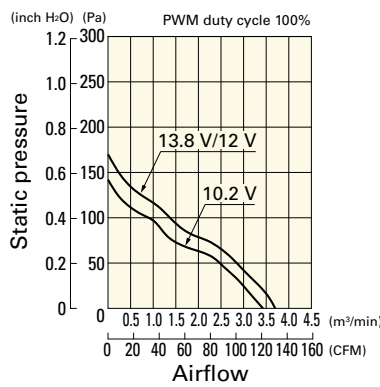


9LG1412P1M001 With pulse sensor with PWM control function

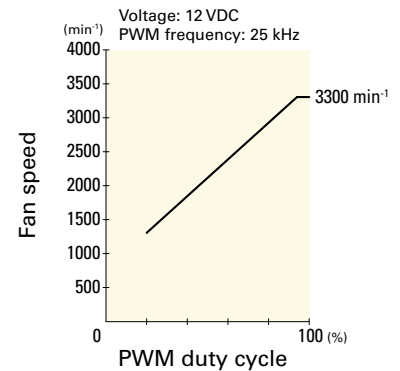
PWM duty cycle



Operating voltage range

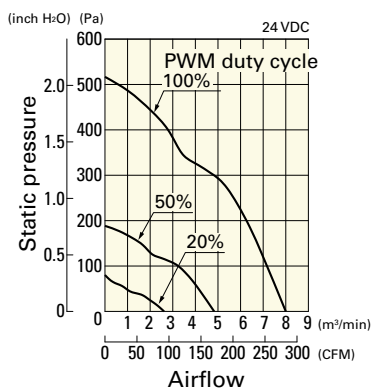


PWM duty - Speed characteristics example

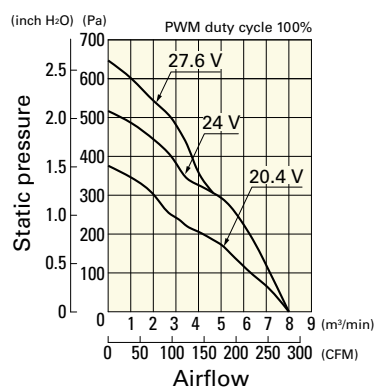


9LG1424P1A001 With pulse sensor with PWM control function

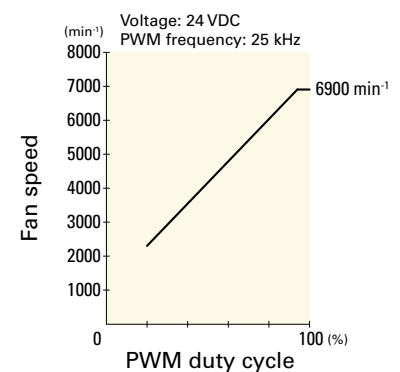
PWM duty cycle



Operating voltage range



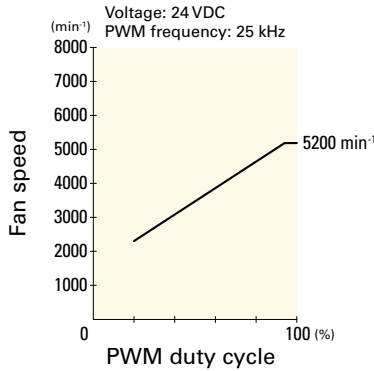
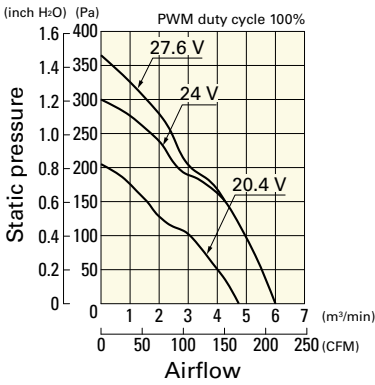
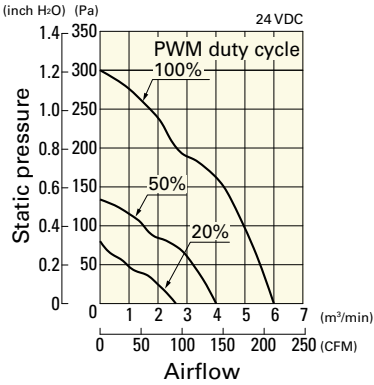
PWM duty - Speed characteristics example



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

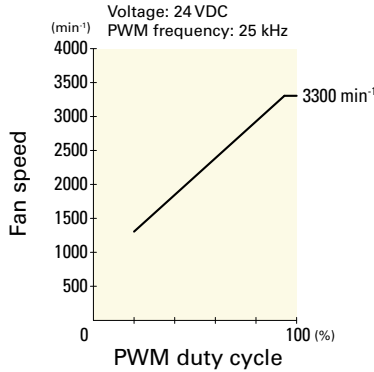
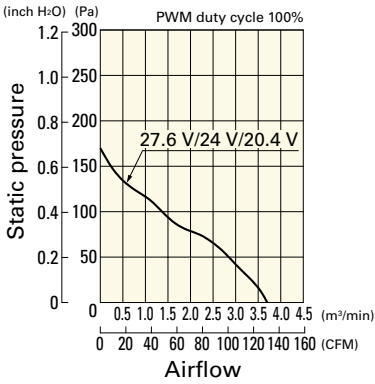
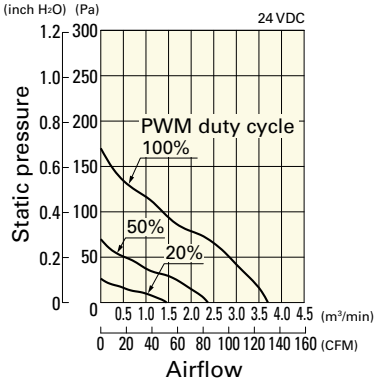
9LG1424P1H001 With pulse sensor with PWM control function

PWM duty cycle Operating voltage range PWM duty - Speed characteristics example



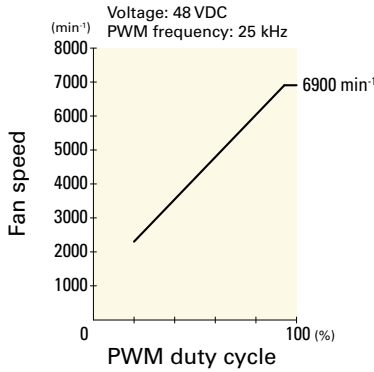
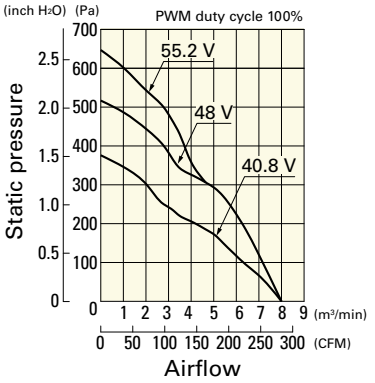
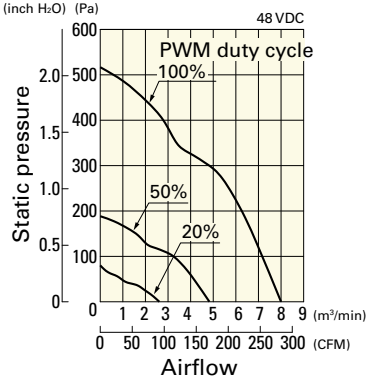
9LG1424P1M001 With pulse sensor with PWM control function

PWM duty cycle Operating voltage range PWM duty - Speed characteristics example



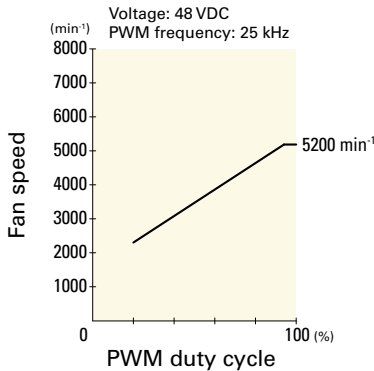
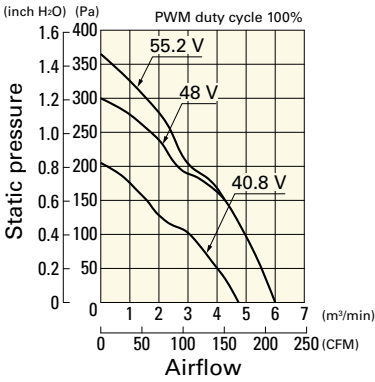
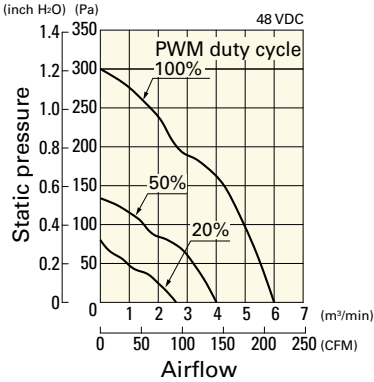
9LG1448P1A001 With pulse sensor with PWM control function

PWM duty cycle Operating voltage range PWM duty - Speed characteristics example



9LG1448P1H001 With pulse sensor with PWM control function

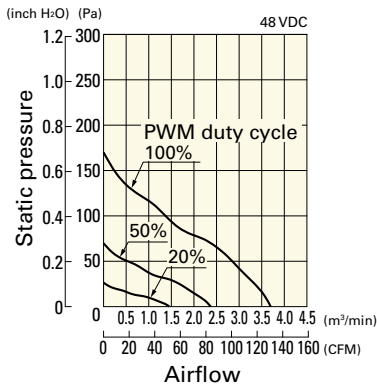
PWM duty cycle Operating voltage range PWM duty - Speed characteristics example



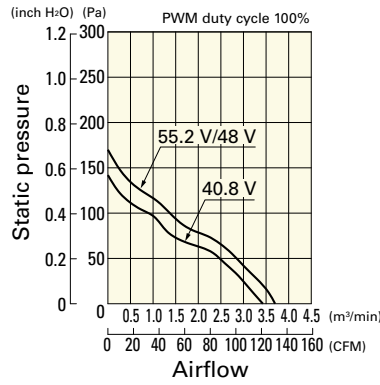
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1448P1M001 With pulse sensor with PWM control function

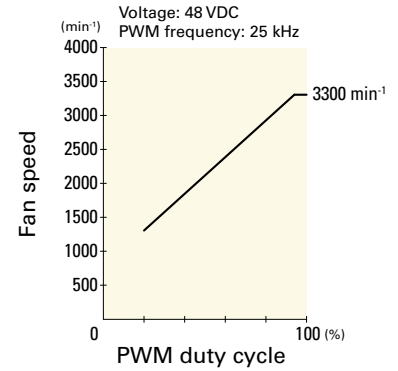
PWM duty cycle



Operating voltage range



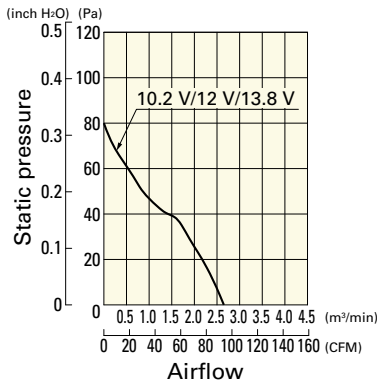
PWM duty - Speed characteristics example



Airflow - Static Pressure Characteristics

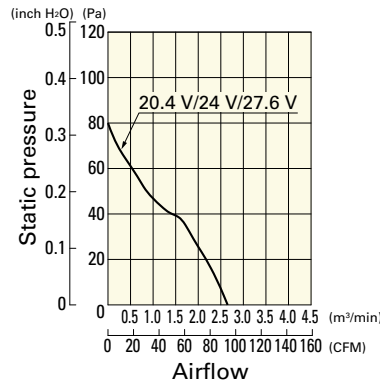
9LG1412L1001 With pulse sensor

Operating voltage range



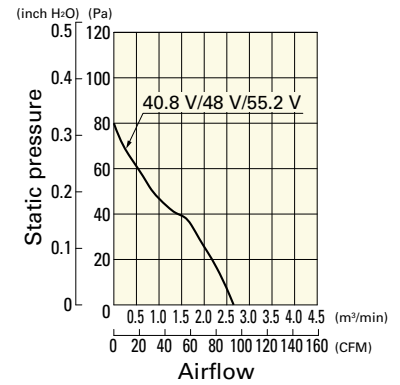
9LG1424L1001 With pulse sensor

Operating voltage range

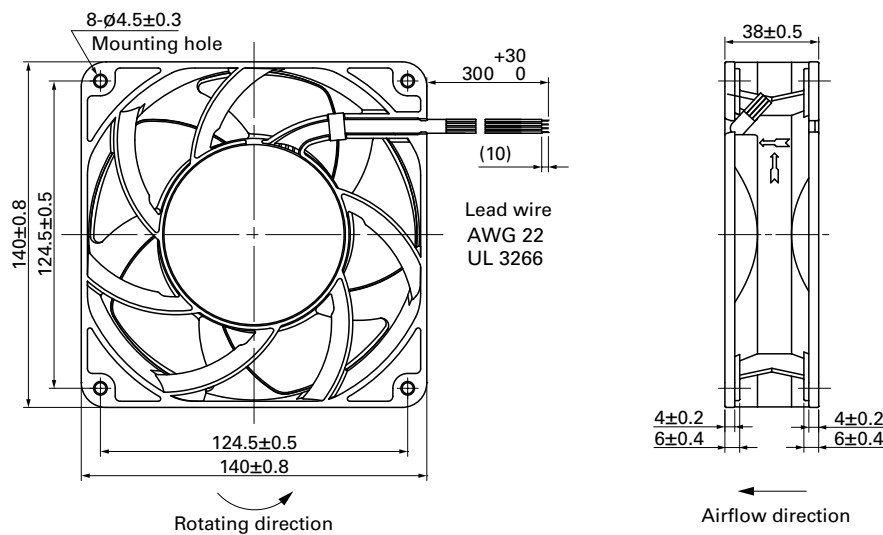


9LG1448L1001 With pulse sensor

Operating voltage range

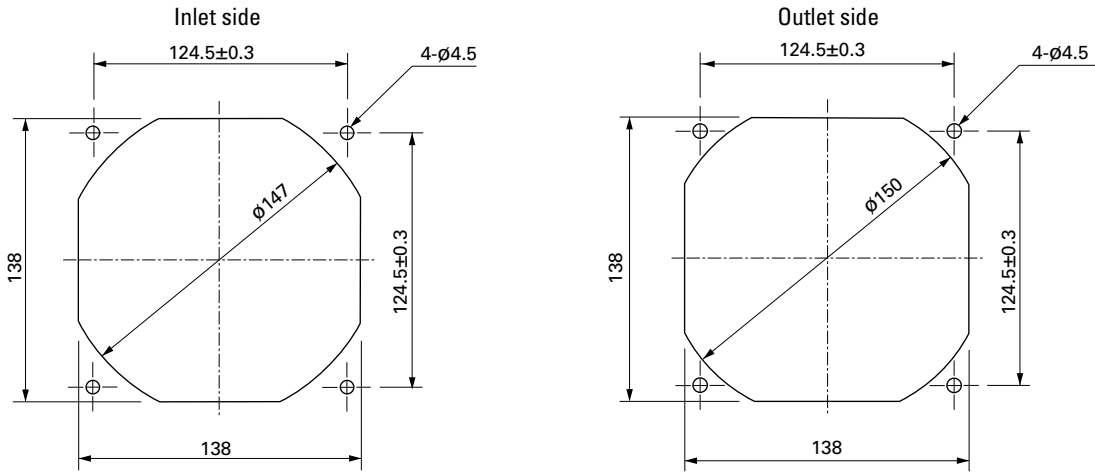


Dimensions (unit: mm)



DC
Long Life Fan 140 mm sq.

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



■ Options

Finger guards page: p. 559

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