

120mm sq.

San Ace 120

25mm thick, 25mm thick (with Sensor)

38mm thick, 38mm thick (with Sensor)



General Specifications

- Material..... Frame: Aluminum, Impeller: Plastics (Flammability: UL94V-1)
- Life Expectancy Varies for each model (L10: Survival rate: 90% at 60°C ,
rated voltage, and continuously run in a free air state)
- Dielectric Strength 50/60Hz 1,500VAC 1minute (between input terminal and frame)
- Dielectric Strength (With Sensor) ... between AC input and DC input (Sensor output)
: 50/60Hz 1,000VAC 1minute
between AC input and G
: 50/60Hz 1,500VAC 1minute,
between G and DC input (Sensor output)
: 50/60Hz 1,000VAC 1minute
- Sensor-Purpose Lead Wire ... ⊕ brown ⊖ black (Sensor) yellow

120×120×38mm [Mass : 550g / 580g (with Sensor)]

Specifications Standard

 ※ represents low-speed.

Model No.	Voltage [V]	Frequency [Hz]	Input [W]	Current [A]	Locked Rotor Current [A]	Rated Speed [min ⁻¹]	Air Flow [m³/min] [CFM]	Static Pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]									
109S075UL	100	50/60	18/16	0.24/0.21	0.32/0.28	2,700/3,100	2.5/2.9 88.3/102.5	57.9/68.7 0.233/0.276	42/45	-30 to +60	25,000									
109S074UL	115			0.21/0.18	0.27/0.24															
109S078UL	200			0.12/0.1	0.16/0.14															
109S072UL	230			0.11/0.09	0.14/0.13															
109S005	100		14/12	0.18/0.16	0.25/0.22	2,700/3,100	2.35/2.7 83 / 95.4	55.9/65.7 0.224/0.264	40/43											
109S005UL				0.16/0.14	0.21/0.18															
109S024				120	200							0.09/0.08	0.13/0.11							
109S024UL	115			0.08/0.07								0.11/0.09								
109S008	200		14/12	0.18/0.16		0.23/0.21	2,450/2,700	2.15/2.35 76 / 83	44.1/49.0 0.177/0.197			38/40								
109S008UL	230			0.16/0.14	0.16/0.15	1,800/2,000							1.54/1.72 54.4/ 60.8	24 /27 0.096/0.108	30/32					
109S025	100			7/7	0.1 /0.09											0.1 /0.09	1,650/1,700	1.45/1.5 51.2/ 53	17.6/17.6 0.071/0.071	28/28
109S025UL				10/10	0.13/0.11											0.13/0.11	1,800/1,900	1.56/1.64 55 / 57.9	20 /20.6 0.080/0.083	30/31
109S029UL			200	7/7	0.05/0.04		0.05/0.04	1,650/1,700	1.45/1.5 51.2/ 53			17.6/17.6 0.071/0.071				28/28				
109S013	115		11/11	0.06/0.05	0.06/0.05	1,800/1,950	1.58/1.68 55.8/ 59.3	20.6/21.6 0.083/0.087	30/32											
109S013UL			10/10	0.13/0.11	0.13/0.11	1,800/1,900	1.56/1.64 55 / 57.9	20 /20.6 0.080/0.083	30/31											
109S006 ※			7/7	0.1 /0.09	0.1 /0.09	1,650/1,700	1.45/1.5 51.2/ 53	17.6/17.6 0.071/0.071	28/28											
109S006UL ※	200	10/10	0.13/0.11	0.13/0.11	1,800/1,900	1.56/1.64 55 / 57.9	20 /20.6 0.080/0.083	30/31												
109S010 ※		7/7	0.05/0.04	0.05/0.04	1,650/1,700	1.45/1.5 51.2/ 53	17.6/17.6 0.071/0.071	28/28												
109S010UL ※		11/11	0.06/0.05	0.06/0.05	1,800/1,950	1.58/1.68 55.8/ 59.3	20.6/21.6 0.083/0.087	30/32												

with Sensor

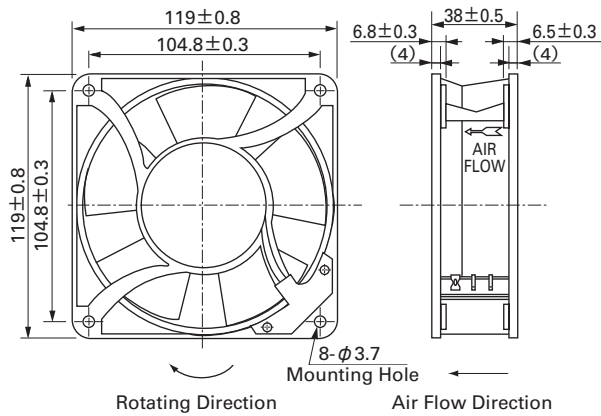
 ※ represents low-speed.

Model No.	Voltage [V]	Frequency [Hz]	Input [W]	Current [A]	Locked Rotor Current [A]	Rated Speed [min ⁻¹]	Air Flow [m³/min] [CFM]		Static Pressure [Pa] [inchH ₂ O]		SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
109S405UL	100	50/60	14/12	0.18/0.16	0.25/0.22	2,700/3,100	2.35/2.7	83/95.4	55.9/65.7	0.224/0.264	40/43	- 10 to +60	25,000
109S424UL	115			0.16/0.14	0.21/0.18								
109S408UL	200			0.09/0.08	0.13/0.11								
109S425UL	230			0.08/0.07	0.11/0.09								
109S429UL	100		7/6	0.18/0.16	0.23/0.21	2,450/2,700	2.15/2.35	76/83	44.1/49.0	0.177/0.197	38/40		
109S406UL※				0.09/0.08	0.1 /0.09	1,650/1,700	1.45/1.5	51/53	17.7/17.7	0.071/0.071	28/28		
109S475UL	100		18/16	0.24/0.21	0.32/0.28	2,700/3,100	2.5 /2.9	88.3/102.4	57.9/68.7	0.233/0.276	42/45		
109S474UL	115			0.21/0.18	0.27/0.24								
109S478UL	200			0.12/0.1	0.16/0.14								
109S472UL	230			0.11/0.09	0.14/0.13								

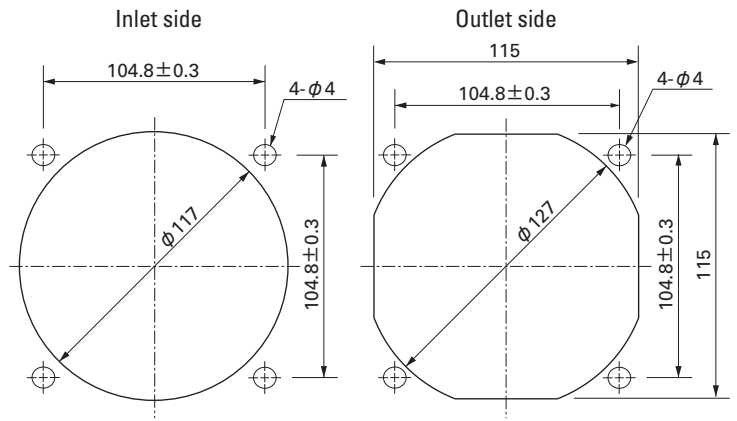
Two types of power supplies, 5V and 12V, are available in fans with sensor attached.

Dimensions (Unit : mm)

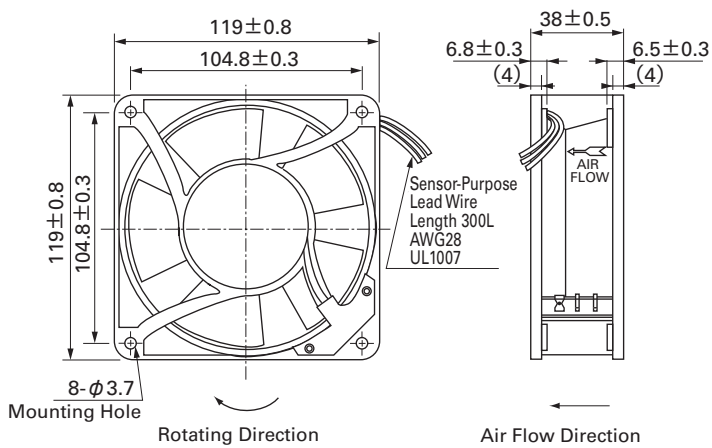
Standard



Reference dimension of mounting holes and vent opening (Unit : mm)

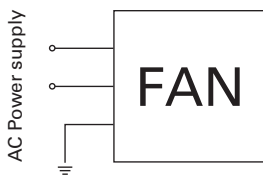


with Sensor



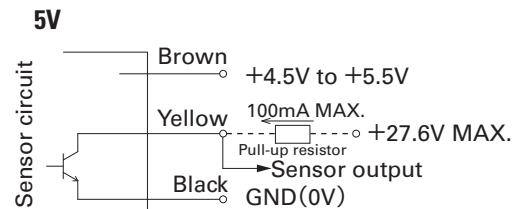
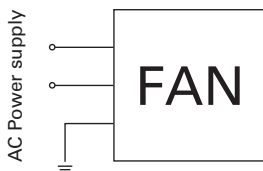
Wiring diagram

Standard

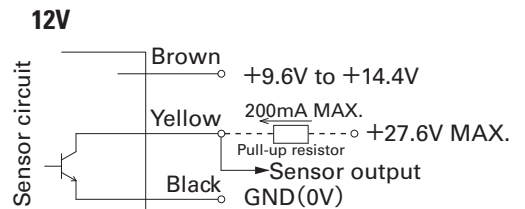


with Sensor

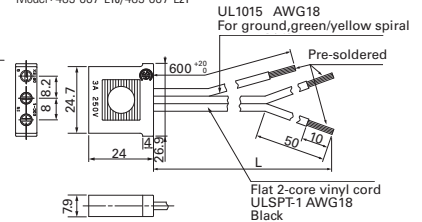
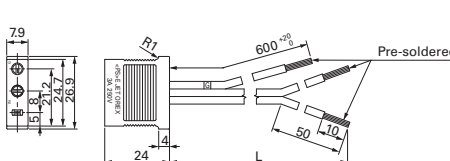
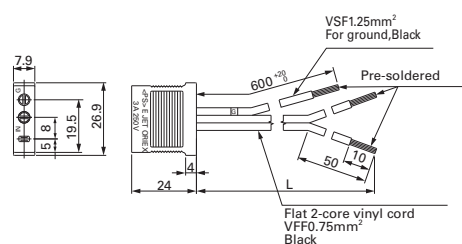
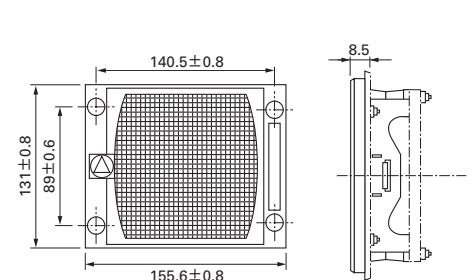
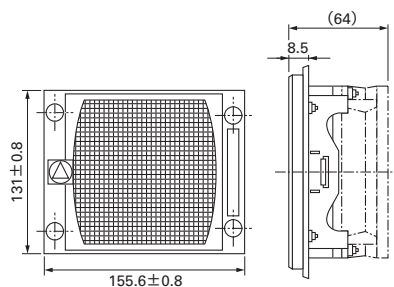
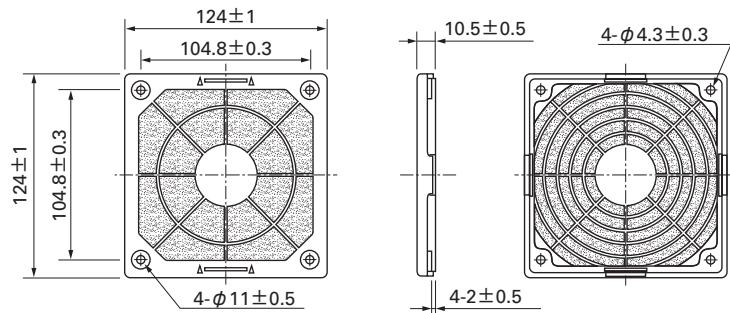
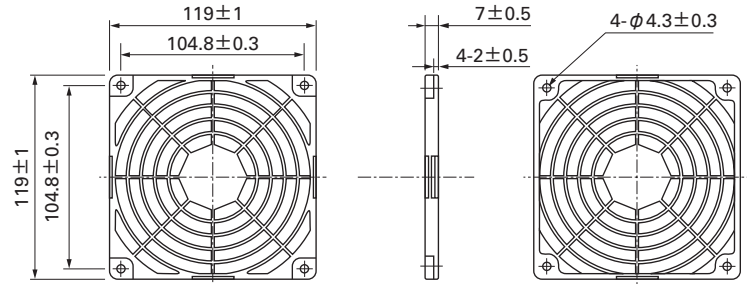
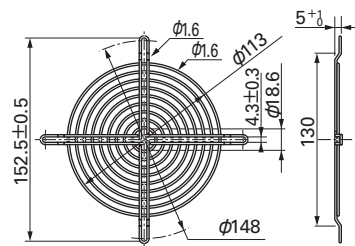
(For fan power supply)



GND (Black) should be shared in case that power supply for sensor circuit (Brown) and that for sensor pull-up (Yellow) are separated.



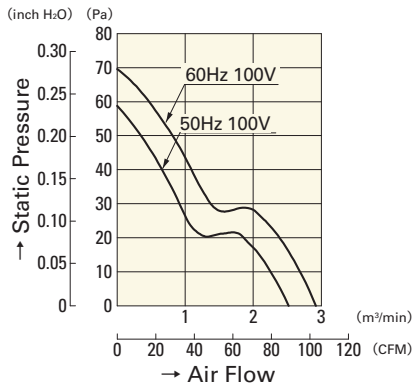
120×120×38mm [Mass : 550g / 580g (with Sensor)]



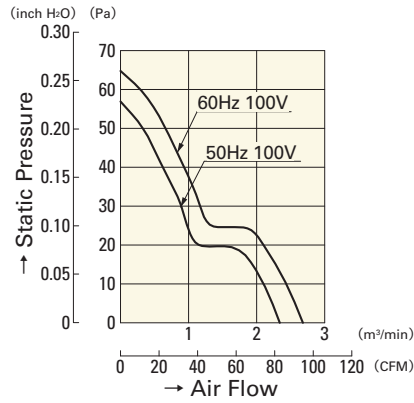
Model	Power cord length(mm)
— L10	1,000
— L21	2,100
— L35	3,500

Air Flow - Static Pressure Characteristics

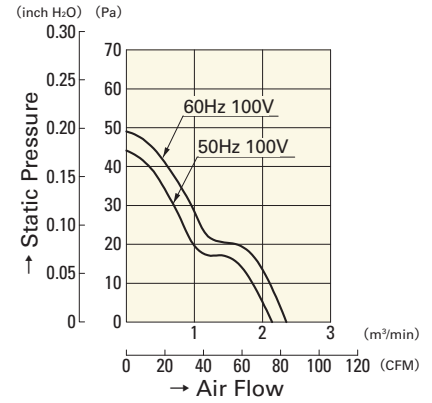
Standard



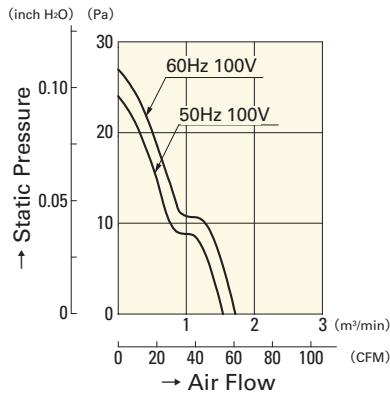
109S075UL **109S074UL**
109S078UL **109S072UL**



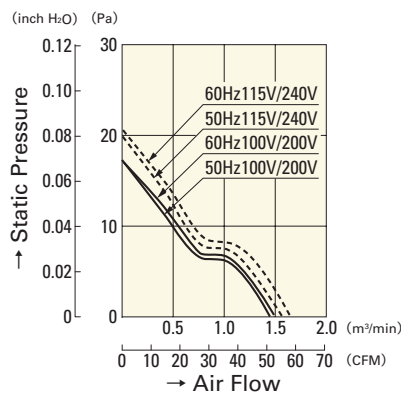
109S005 **109S005UL**
109S024 **109S024UL**
109S008 **109S008UL**
109S025 **109S025UL**



109S029UL

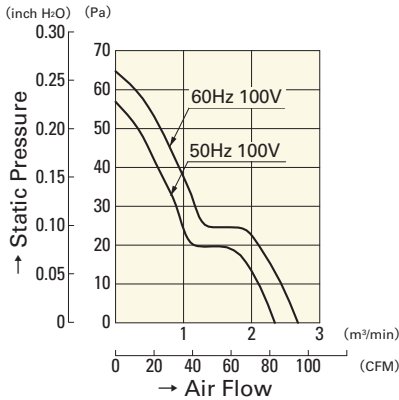


109S013
109S013UL

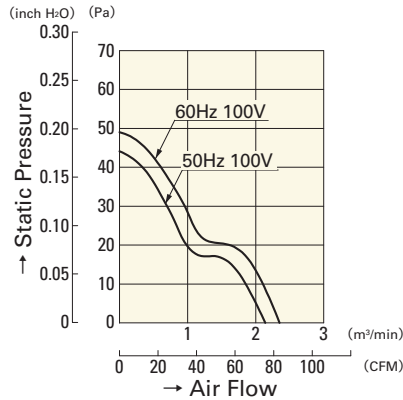


109S006 **109S006UL**
109S010 **109S010UL**

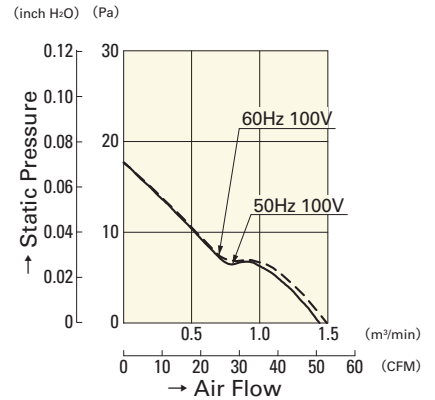
with Sensor



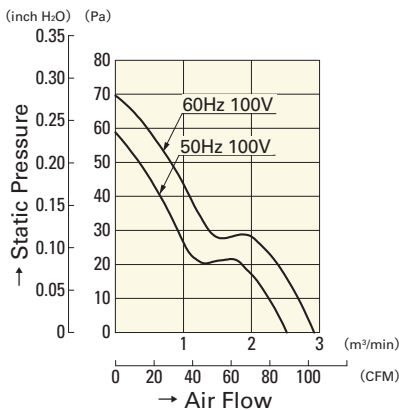
109S405UL **109S424UL**
109S408UL **109S425UL**



109S429UL



109S406UL



109S475UL **109S474UL**
109S478UL **109S472UL**