120×120×25 mm

San Ace 120

Only standard fans (without sensors) have acquired CSA certification.

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)
- Motor structure ····· Shaded coil motor
- Motor protection function ····· Locked rotor burnout protection, Reverse polarity protection
  For details, please refer to p. 547.
- Dielectric strength ····· 50/60 Hz, 1500 VAC, for 1 minute (between input terminal and frame)
- Dielectric strength (with sensor) ····· 50/60 Hz 1500 VAC 1 minute (between AC input terminal and frame)
  50/60 Hz 1000 VAC 1 minute (between lead wire conductors and frame)
- Insulation resistance ····· 10 MΩ or more with a 500 VDC megger
- Sound pressure level (SPL) ····· At 1 m away from the air inlet
- Operating voltage range ····· Voltage of each model ±10%
- Storage temperature ····· -30 to +70˚C (Non-condensing)
- Sensor-Purpose lead wire ····· ⊕Brown ⊖Black (Sensor) Yellow
- Mass ····· 370 g/390 g (with Sensor)

Specifications

Standard

Model no.	Rated voltage [V]	Frequency [Hz]	Input [W]	Current [A]	Locked rotor current [A]	Rated speed [min⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
109S085	100	50/60	13.5/12	0.16/0.14	0.19/0.17	2500/2900	1.95/2.3	68.9/81.3	48 /51.9	0.193/0.216	38/41	-30 to +60	25000/60˚C
109S084	115			0.14/0.12	0.16/0.15								
109S088	200			0.08/0.07	0.1 /0.09								
109S087	230			0.07/0.06	0.08/0.07								
109S081	100		9.5/8.5	0.11	0.11/0.1	2200/2350	1.7 /1.8	60.1/63.6	29.4/26.5	0.118/0.106	34/35		
109S083	115			0.1	0.1 /0.09								
109S082	200			0.07	0.07/0.06								
109S089	230			0.06	0.06/0.05								
109S086*	100		12/10	0.14/0.12	0.15/0.13	1400/1600	1.1 /1.25	38.9/44.2	14.7/18.6	0.059/0.075	24/27		

*These are low-speed models.

with Sensor

For sensor specifications, please refer to p. 550. Sensor specification differs depending on the fan's speed specification.
For a 5 V sensor power supply (ITEM-20), please append "-20" to the end of model number. E.g. 109S485-20
For a 12 V sensor power supply (ITEM-30), please append "-30" to the end of model number. E.g. 109S485-30

Model no.	Rated voltage [V]	Frequency [Hz]	Input [W]	Current [A]	Locked rotor current [A]	Rated speed [min⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
109S485	100	50/60	13.5/12	0.16/0.14	0.19/0.17	2500/2900	1.95/2.3	68.9/81.3	48 /51.9	0.193/0.216	38/41	-10 to +60	25000/60˚C
109S484	115			0.14/0.12	0.16/0.15								
109S488	200			0.08/0.07	0.1 /0.09								
109S487	230			0.07/0.06	0.08/0.07								
109S486*	100		12/10	0.14/0.12	0.15/0.13	1400/1600	1.1 /1.25	38.9/44.2	14.7/18.6	0.059/0.075	24/27		

*These are low-speed models.

Set Models

Fan, finger guard, plug cord, screws, etc. can be purchased in one package. For details, please refer to p. 594.

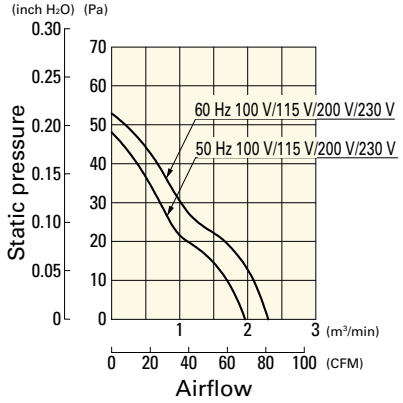
Order no.	Set items					
	Fan	Voltage	Low-speed sensor	Plug cord*	Finger guards	Mounting screws
ST1-109S085	109S085	100 V		489-016-L10	109-019E	M3×40 mm (4 screws)
ST1-109S084	109S084	115 V		489-016-L10	109-019E	
ST1-109S088	109S088	200 V		489-016-L10	109-019E	
ST1-109S087	109S087	230 V		489-016-L10	109-019E	
ST1-109S081	109S081	100 V		489-016-L10	109-019E	
ST1-109S083	109S083	115 V		489-016-L10	109-019E	
ST1-109S082	109S082	200 V		489-016-L10	109-019E	
ST1-109S089	109S089	230 V		489-016-L10	109-019E	
ST1-109S086	109S086	100 V		489-016-L10	109-019E	
ST1-109S485-20	109S485-20		◯ (5 V)	489-016-L10	109-019E	
ST1-109S485-30	109S485-30		◯ (12 V)	489-016-L10	109-019E	
ST1-109S484-20	109S484-20	115 V	◯ (5 V)	489-016-L10	109-019E	
ST1-109S484-30	109S484-30		◯ (12 V)	489-016-L10	109-019E	
ST1-109S488-20	109S488-20	200 V	◯ (5 V)	489-016-L10	109-019E	
ST1-109S488-30	109S488-30		◯ (12 V)	489-016-L10	109-019E	
ST1-109S487-20	109S487-20	230 V	◯ (5 V)	489-016-L10	109-019E	
ST1-109S487-30	109S487-30		◯ (12 V)	489-016-L10	109-019E	
ST1-109S486-20	109S486-20	100 V	◯ (5 V)	489-016-L10	109-019E	
ST1-109S486-30	109S486-30		◯ (12 V)	489-016-L10	109-019E	

* PSE compatible.

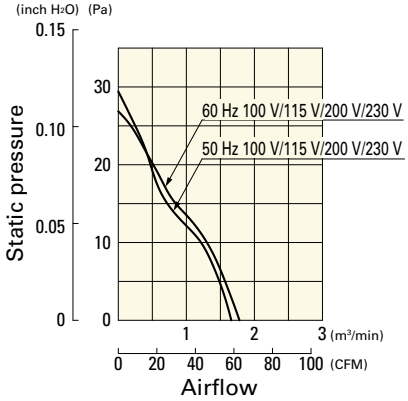
Airflow - Static Pressure Characteristics

Standard

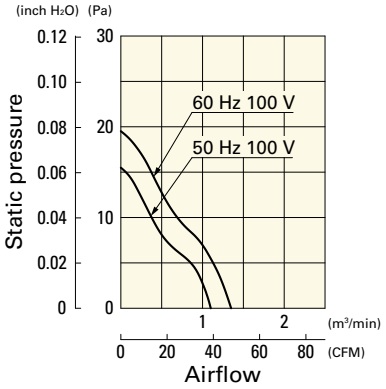
109S085, 109S084, 109S088, 109S087



109S081, 109S083, 109S082, 109S089

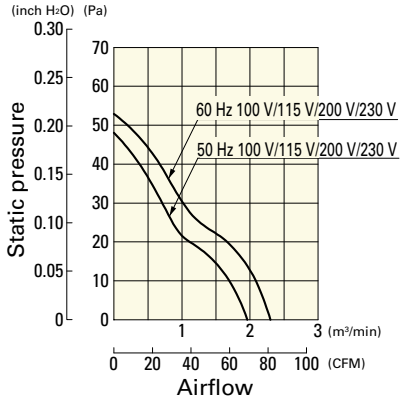


109S086

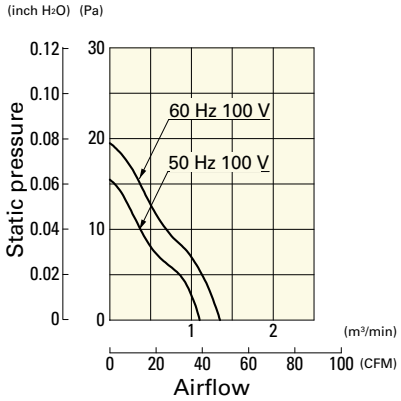


with Sensor

109S485, 109S484, 109S488, 109S487

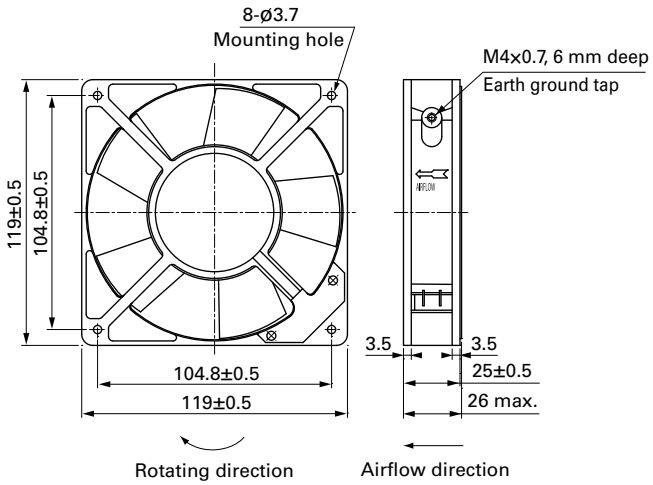


109S486



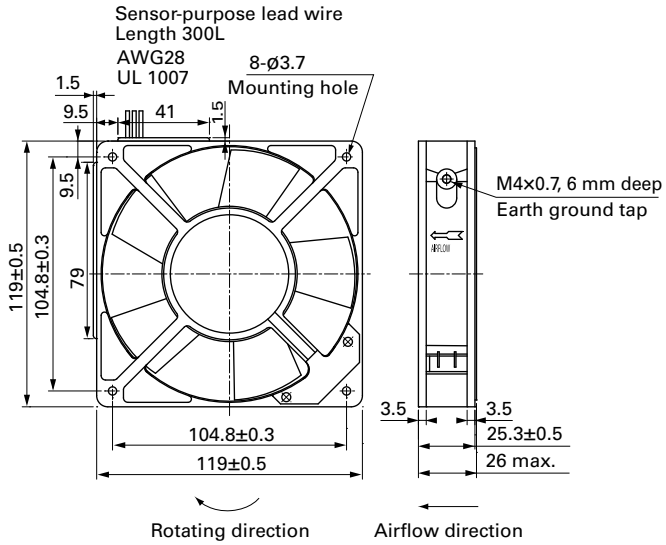
Dimensions (unit: mm)

Standard

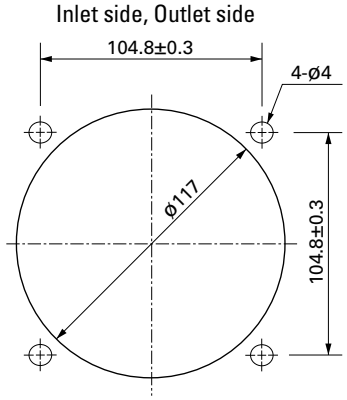


with Sensor

When mounting the model with a sensor, please screw-mount through both flanges as it has a sensor box.

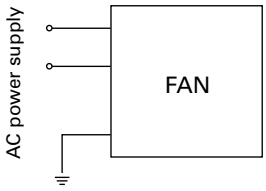


Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



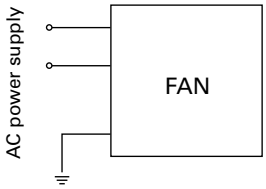
Wiring Diagram

Standard

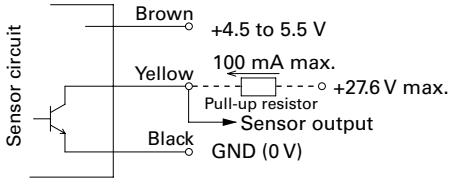


with Sensor

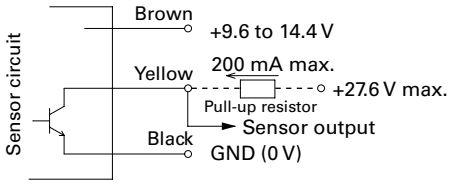
For fan power supply



For sensor circuit
5 V (ITEM-20)



12 V (ITEM-30)



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

Options

Finger guards page: p. 533

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

Resin finger guards page: p. 539

Model no.: 109-1000G

Resin filter kits page: p. 540

Model no.: 109-1000F13 (13PPI), 109-1000F20 (20PPI), 109-1000F30 (30PPI), 109-1000F40 (40PPI)

Plug cord page: pp. 542 to 543

Model no.: 489-016-L10, 489-016-L21, 489-047-L10, 489-047-L21

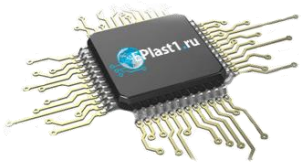
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.