

General Specifications

- Material

· Expected life

· Motor protection function

· Dielectric strength

· Insulation resistance

· Sound pressure level (SPL)

· Storage temperature

· Lead wire

· Mass
- Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)

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.

Locked rotor burnout protection, Reverse polarity protection
For details, please refer to p. 573.

50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)

10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)

At 1 m away from the air inlet

-30 to +70°C (Non-condensing)

⊕Red ⊖Black or Blue Sensor Yellow

100 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]
109P0812C601	12	10.2 to 13.8	0.29	3.48	3700	1.07 37.8	46 0.185	39	-20 to +60	60000/60°C (90000/40°C)
109P0812H601			0.21	2.52	2900	0.84 29.7	29.4 0.118	31		
109P0812M601			0.13	1.56	2300	0.67 23.7	18.6 0.075	25		
109P0824H601	24	20.4 to 27.6	0.12	2.88	2900	0.84 29.7	29.4 0.118	31	-20 to +70	40000/60°C (70000/40°C)
109P0824M601			0.07	1.68	2300	0.67 23.7	18.6 0.075	25		
109P0848C601	48	38 to 57.6	0.08	3.84	3700	1.07 37.8	46 0.185	39	-20 to +60	40000/60°C (70000/40°C)
109P0848H601			0.05	2.4	2900	0.84 29.7	29.4 0.118	31		

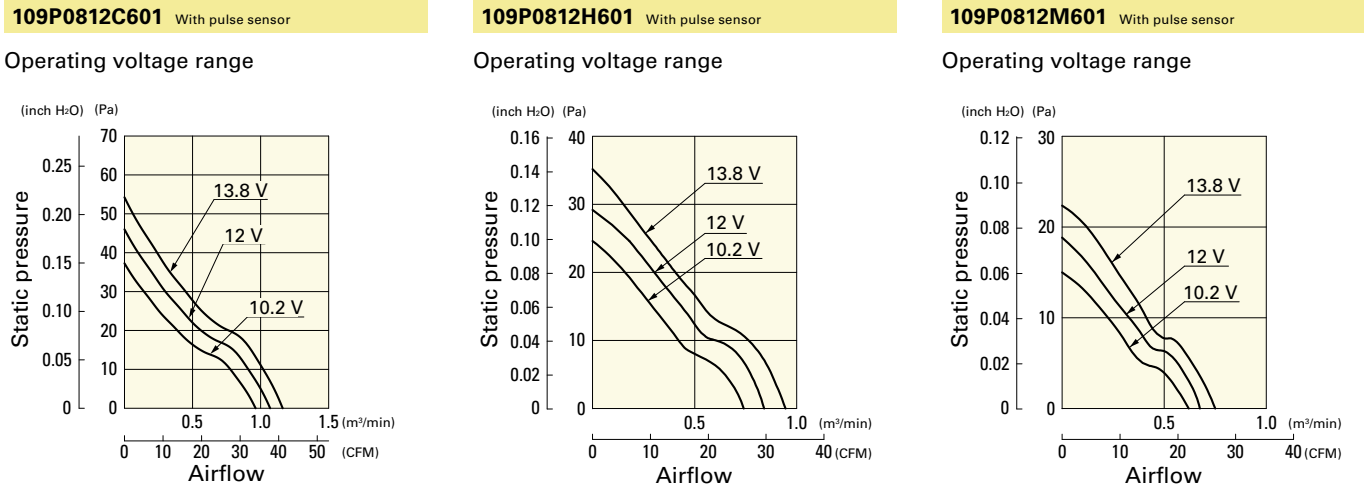
The following sensor and control options are available for selection.

Available for all models. Lock sensor

Differs according to the model. Refer to the table on p. 596. Without sensor

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

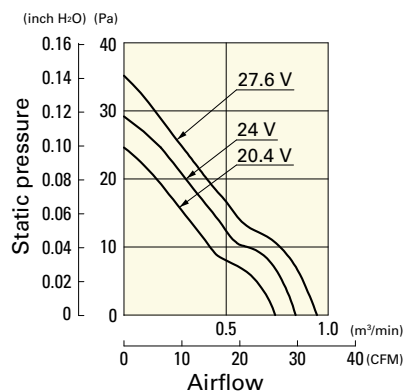
Airflow - Static Pressure Characteristics



Airflow - Static Pressure Characteristics

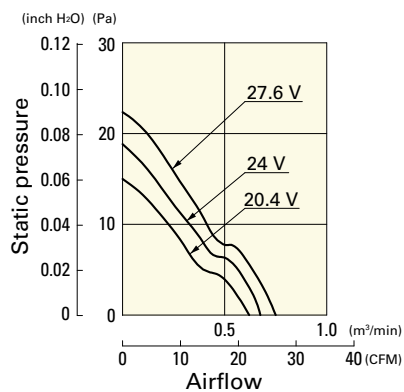
109P0824H601 With pulse sensor

Operating voltage range



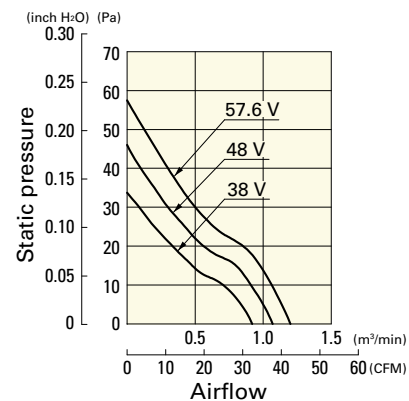
109P0824M601 With pulse sensor

Operating voltage range



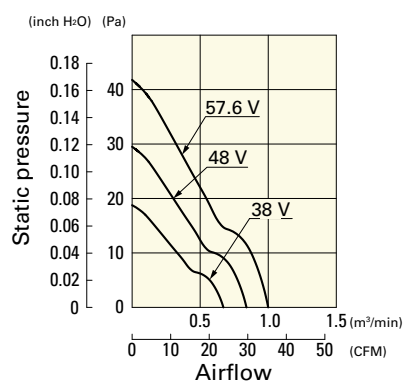
109P0848C601 With pulse sensor

Operating voltage range

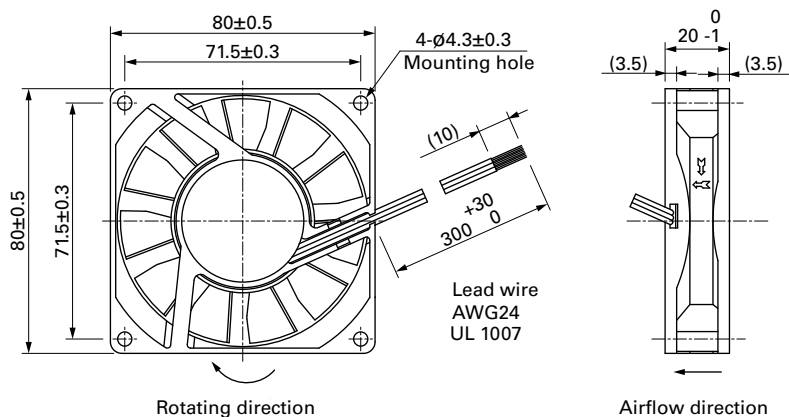


109P0848H601 With pulse sensor

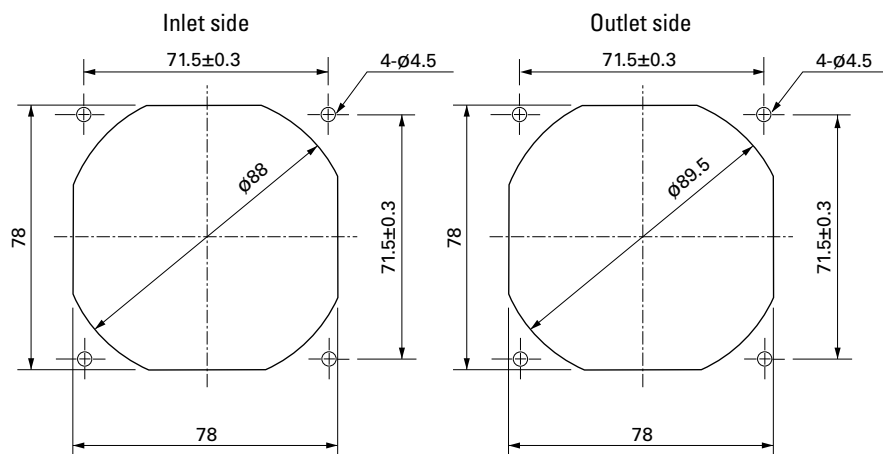
Operating voltage range



Dimensions (unit: mm)



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



Options

Finger guards

page: p. 558

Model no.: 109-049E, 109-049H, 109-049C

Resin finger guards

page: p. 565

Model no.: 109-1002G

Resin filter kits

page: p. 566

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),
109-1002F30 (30PPI), 109-1002F40 (40PPI)