



# 40x40x20 mm

San Ace 40 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 ..... 45 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 <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
109P0405J601	5	4.5 to 5.5	0.46	2.3	9800	0.28 9.9	98.5 0.396	39	-20 to +70	40000/60°C (70000/40°C)
109P0405H601			0.32	1.6	8000	0.225 8.0	65.7 0.264	33		
109P0405F601			0.25	1.25	6500	0.183 6.5	45.1 0.181	28		
109P0405M601			0.12	0.6	5000	0.136 4.8	26.5 0.106	24		
109P0412G601	12	7 to 13.8	0.28	3.36	12500	0.35 12.4	153.8 0.618	44	-20 to +60	40000/60°C (70000/40°C)
109P0412D601			0.18	2.16	11000	0.31 10.9	124 0.498	42		
109P0412E601			0.13	1.56	9200	0.26 9.2	87.3 0.351	37		
109P0412H601			0.11	1.32	8000	0.225 8.0	65.7 0.264	33		
109P0412F601			0.09	1.08	6500	0.183 6.5	45.1 0.181	28		
109P0412M601			0.06	0.72	5000	0.136 4.8	26.5 0.106	24		
109P0424G601	24	12 to 27.6	0.15	3.6	12500	0.35 12.4	153.8 0.618	44	-20 to +60	40000/60°C (70000/40°C)
109P0424D601			0.13	3.12	11000	0.31 10.9	124 0.498	42		
109P0424H601			0.07	1.68	8300	0.233 8.2	69.6 0.28	35		
109P0424F601			0.06	1.44	6500	0.183 6.5	45.1 0.181	28		
109P0424B601		20.4 to 27.6	0.06	1.44	5200	0.14 4.9	28.3 0.114	25	-20 to +70	60000/60°C (90000/40°C)

The following sensor and control options are available for selection.

Available for all models. **Without sensor**

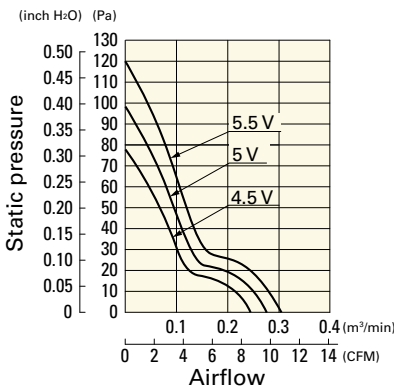
Differs according to the model. Refer to the table on pp. 595 to 596. **Lock sensor**

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

## Airflow - Static Pressure Characteristics

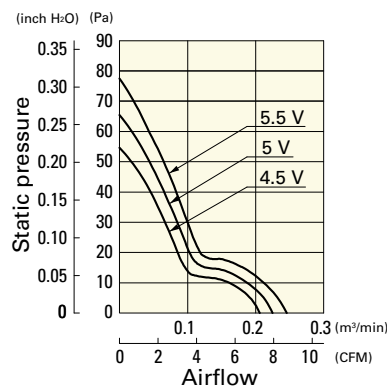
**109P0405J601** With pulse sensor

Operating voltage range



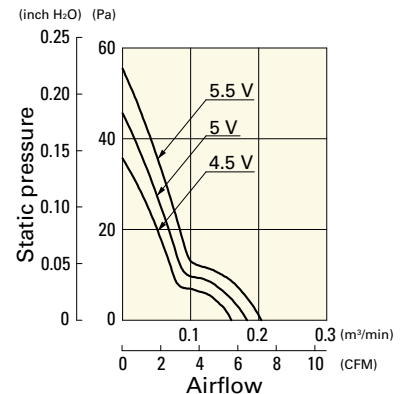
**109P0405H601** With pulse sensor

Operating voltage range



**109P0405F601** With pulse sensor

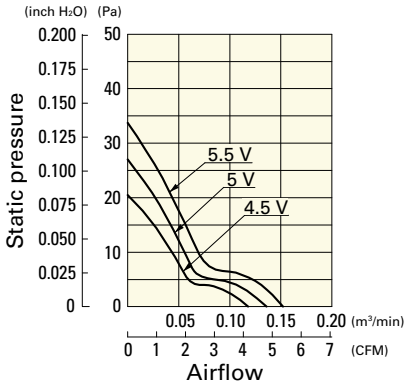
Operating voltage range



# Airflow - Static Pressure Characteristics

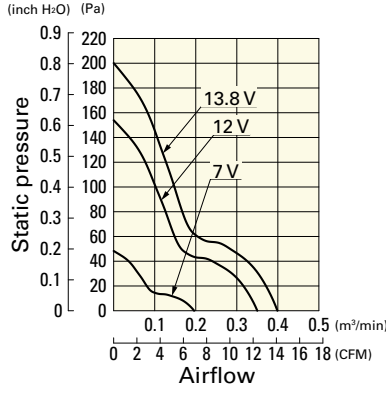
**109P0405M601** With pulse sensor

Operating voltage range



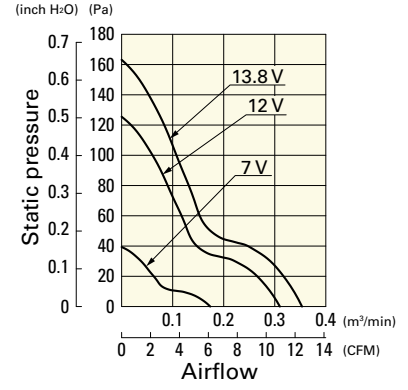
**109P0412G601** With pulse sensor

Operating voltage range



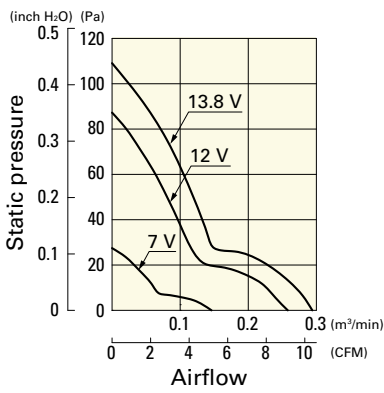
**109P0412D601** With pulse sensor

Operating voltage range



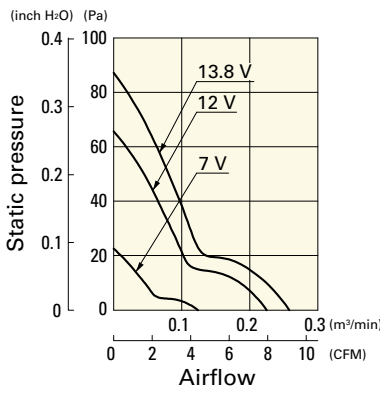
**109P0412E601** With pulse sensor

Operating voltage range



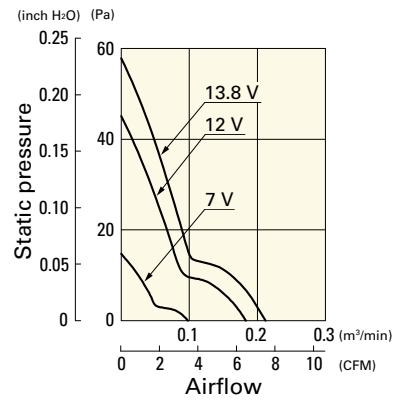
**109P0412H601** With pulse sensor

Operating voltage range



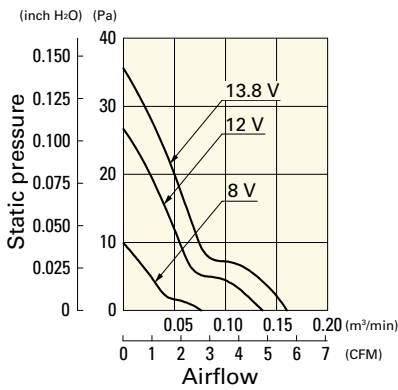
**109P0412F601** With pulse sensor

Operating voltage range



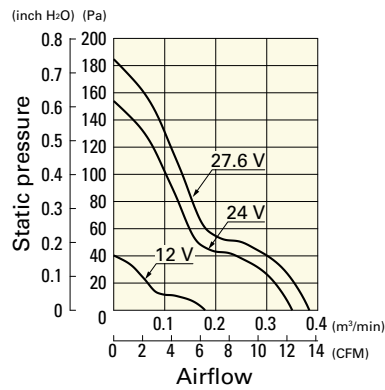
**109P0412M601** With pulse sensor

Operating voltage range



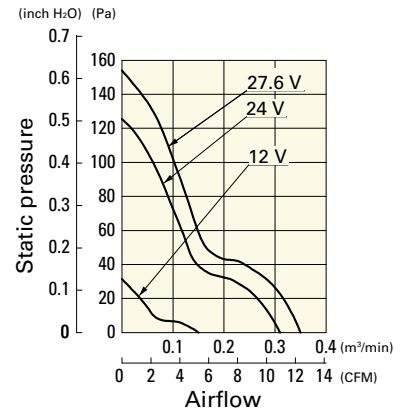
**109P0424G601** With pulse sensor

Operating voltage range



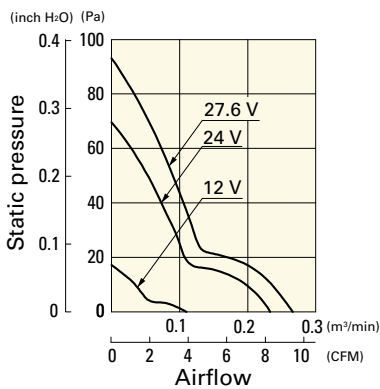
**109P0424D601** With pulse sensor

Operating voltage range



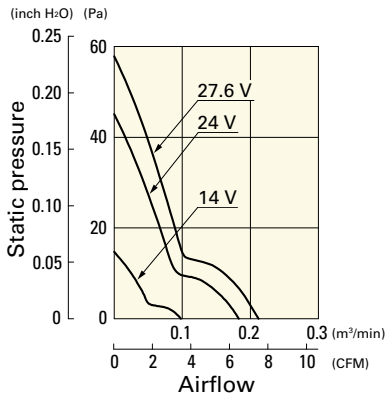
**109P0424H601** With pulse sensor

Operating voltage range



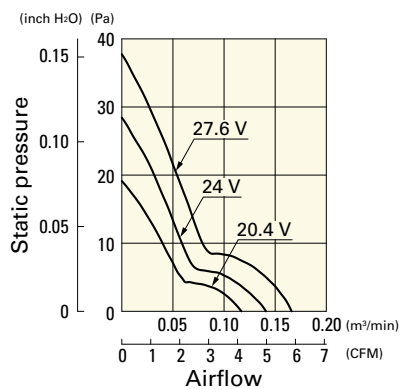
**109P0424F601** With pulse sensor

Operating voltage range

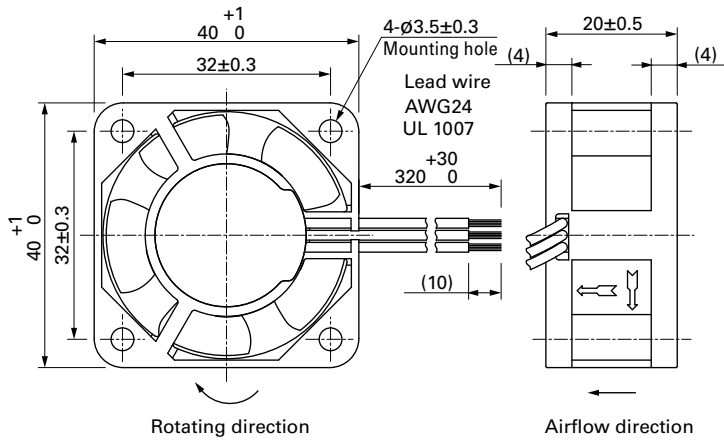


**109P0424B601** With pulse sensor

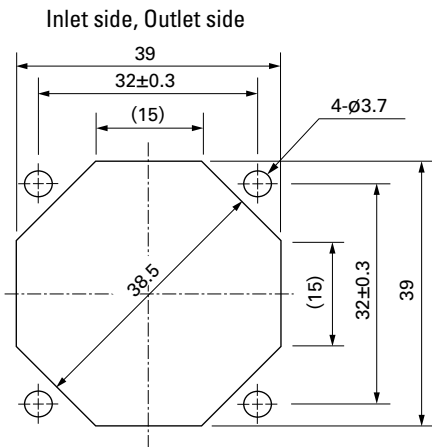
Operating voltage range



**Dimensions (unit: mm)**



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



**Options**

Finger guards

page: p. 558

Model no.: 109-059, 109-059H