

# 40x40x28 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. 614.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... A-weighted 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 ..... 52 g

## Specifications

The models listed below **have ribs and a pulse sensor.**

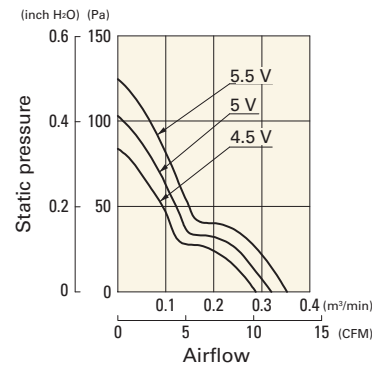
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
109P0405H3013	5	4.5 to 5.5	0.68	3.4	8700	0.32 11.3	102.9 0.414	37	-20 to +70	40000/60°C (70000/40°C)
109P0405F3013			0.28	1.4	6700	0.244 8.6	58.8 0.236	30		60000/60°C (90000/40°C)
109P0412G3013	12	7 to 13.2	0.31	3.72	11500	0.42 14.8	179 0.719	42	-20 to +60	40000/60°C (70000/40°C)
109P0412B3013			0.28	3.36	10300	0.38 13.4	143 0.574	40		70000/40°C
109P0412H3013		7 to 13.8	0.195	2.34	8700	0.32 11.3	102.9 0.414	37	-20 to +70	60000/60°C (90000/40°C)
109P0412F3013			0.105	1.26	6700	0.244 8.6	58.8 0.236	30		
109P0412M3013		10.2 to 13.8	0.045	0.54	4100	0.15 5.3	21.6 0.087	20		
109P0424G3013		24	12 to 26.4	0.19	4.56	11500	0.42 14.8	179 0.719	42	-20 to +60
109P0424B3013	0.13			3.12	10300	0.38 13.4	143 0.574	40	70000/40°C	
109P0424H3013	12 to 27.6		0.095	2.28	8700	0.32 11.3	102.9 0.414	37	-20 to +70	60000/60°C (90000/40°C)
109P0424F3013	14 to 27.6		0.055	1.32	6700	0.244 8.6	58.8 0.236	30		

Note 1: Sensor and control options are available for selection. Refer to the table on p. 639.  
 Note 2: The  mark indicates Short Lead Time Service applicable models. See p. 668 for details.

## Airflow - Static Pressure Characteristics

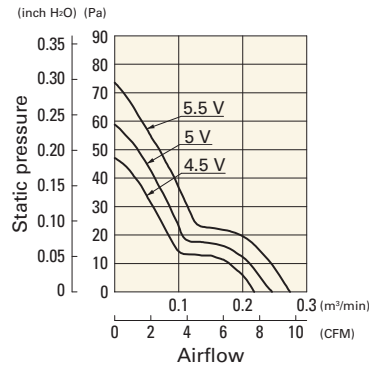
**109P0405H3013** With pulse sensor

Operating voltage range



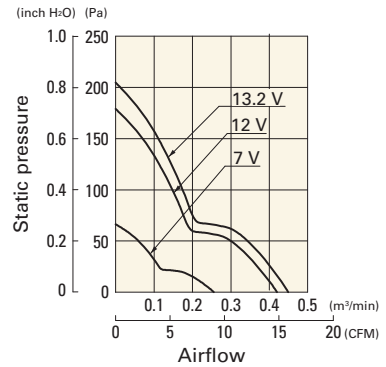
**109P0405F3013** With pulse sensor

Operating voltage range



**109P0412G3013** With pulse sensor

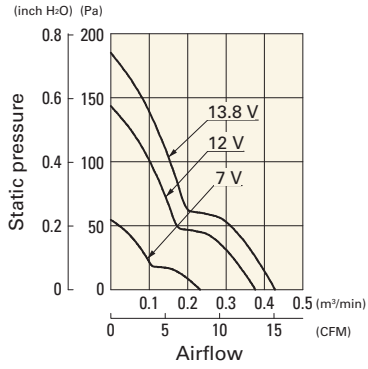
Operating voltage range



**Airflow - Static Pressure Characteristics**

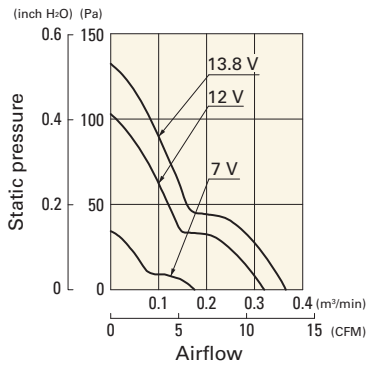
**109P0412B3013** With pulse sensor

Operating voltage range



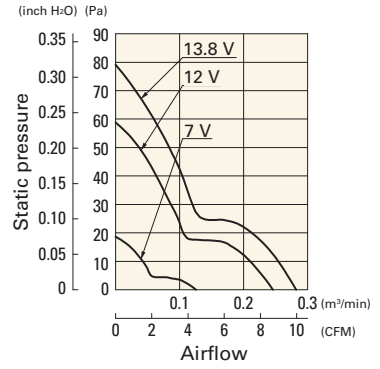
**109P0412H3013** With pulse sensor

Operating voltage range



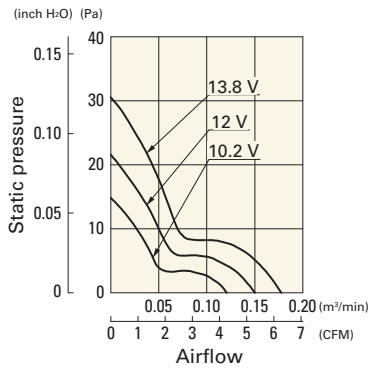
**109P0412F3013** With pulse sensor

Operating voltage range



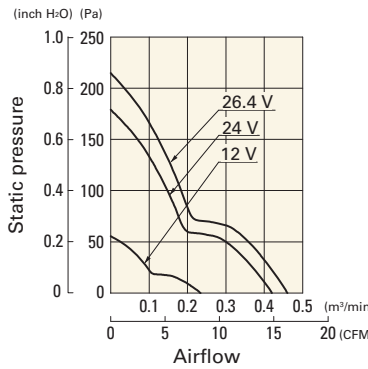
**109P0412M3013** With pulse sensor

Operating voltage range



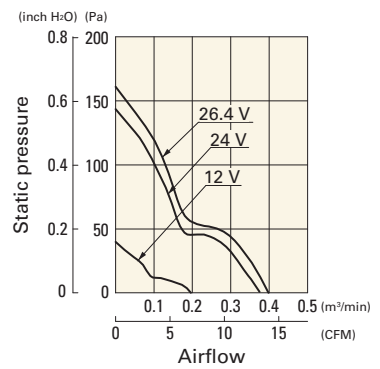
**109P0424G3013** With pulse sensor

Operating voltage range



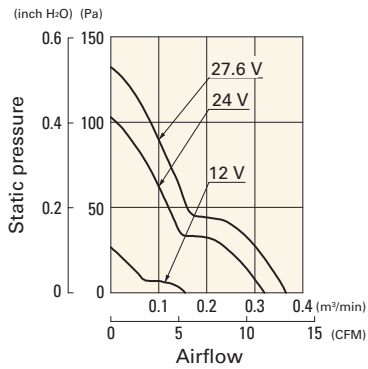
**109P0424B3013** With pulse sensor

Operating voltage range



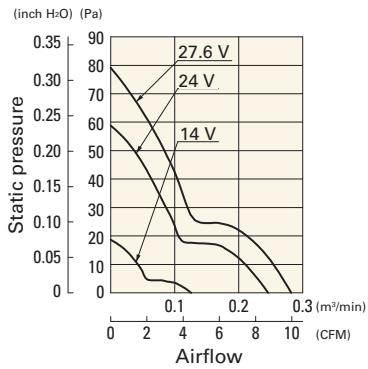
**109P0424H3013** With pulse sensor

Operating voltage range

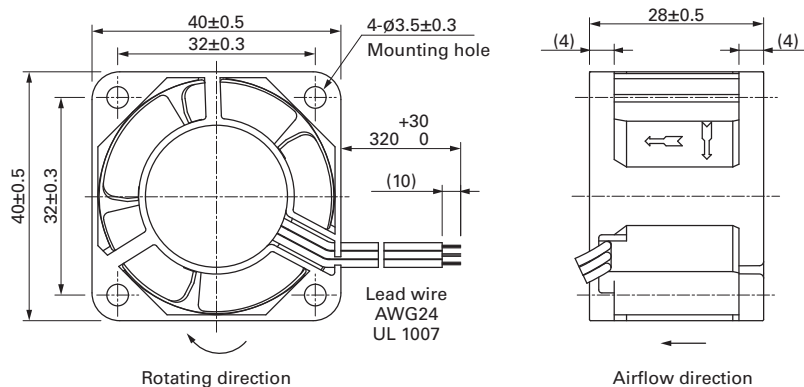


**109P0424F3013** With pulse sensor

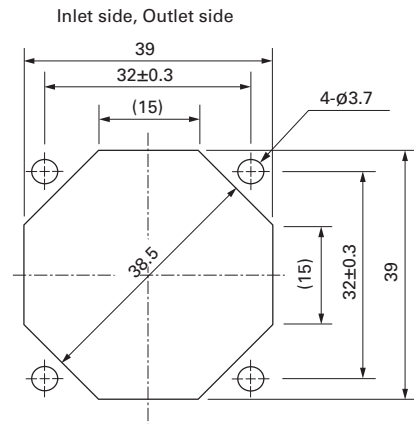
Operating voltage range



**Dimensions (unit: mm)**



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



■ Options

Finger guards

page: p. 598

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

DC  
DC Fan 40 mm sq.