

60×60×25 mm

San Ace 60 9R_{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 90 g

Specifications

The models listed below **have ribs and pulse sensors**. For models without ribs, append "1" to the end of model numbers.

	Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]		Max. static pressure [Pa] [inchH₂O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
»	109R0605H401	5	4.5 to 5.5	0.34	1.7	3800	0.53	18.7	40.2	0.161	28	-20 to +70	60000/60°C (90000/40°C)
»	109R0605F401			0.2	1.0	3200	0.44	15.5	29.4	0.118	24	-20 to +60	
»	109R0605M401			0.13	0.65	2600	0.36	12.7	19.6	0.079	20	-20 to +70	
»	109R0612J401	12	10.8 to 13.2	0.47	5.64	7600	1.06	37.1	155.0	0.622	44	-20 to +60	40000/60°C (70000/40°C)
»	109R0612G401			0.24	2.88	5600	0.78	27.5	87.3	0.351	39	-20 to +70	
»	109R0612D401		10.2 to 13.8	0.21	2.52	5150	0.72	25.4	73.5	0.295	37		
»	109R0612S401			6 to 13.8	0.17	2.04	4600	0.65	23.0	56.8	0.228		33
»	109R0612H401		0.11		1.32	3800	0.53	18.7	40.1	0.161	28		
»	109R0612F401		0.09	1.08	3200	0.44	15.5	29.4	0.118	24			
»	109R0612M401		7 to 13.8	0.06	0.72	2600	0.36	12.7	19.6	0.079	20		
»	109R0624J401			0.24	5.76	7600	1.06	37.1	155.0	0.622	44	-20 to +60	
»	109R0624G401	24	20.4 to 27.6	0.13	3.12	5600	0.78	27.5	87.3	0.351	39	40000/60°C (70000/40°C)	
»	109R0624D401		12 to 27.6	0.12	2.88	5150	0.72	25.4	73.5	0.295	37		-20 to +70
»	109R0624S401			0.08	1.92	4600	0.65	23.0	56.8	0.228	33		
»	109R0624H401			0.06	1.44	3800	0.53	18.7	40.2	0.161	28		
»	109R0624F401			0.05	1.2	3200	0.44	15.5	29.4	0.118	24		
»	109R0624M401		14 to 27.6	0.04	0.96	2600	0.36	12.7	19.6	0.079	20		
»	109R0648J401			0.12	5.76	7600	1.06	37.1	155.0	0.622	44	-20 to +60	
»	109R0648G401	48	43 to 53	0.07	3.36	5600	0.78	27.5	87.3	0.351	39	40000/60°C (70000/40°C)	
»	109R0648H401		40 to 53	0.04	1.92	3800	0.53	18.7	40.2	0.161	28		-20 to +70

The following sensor and control options are available for selection.

Available for all models. Without sensor

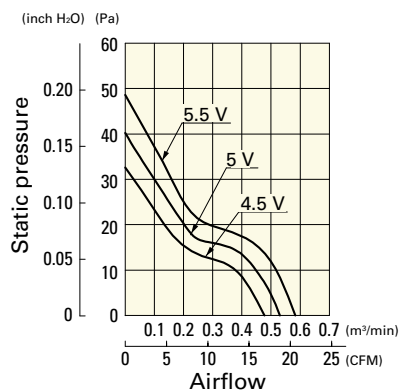
Differs according to the model. Refer to the table on pp. 596 to 597. Lock sensor PWM control

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

Airflow - Static Pressure Characteristics

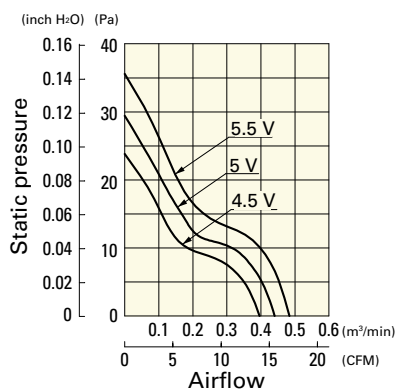
109R0605H401 With pulse sensor

Operating voltage range



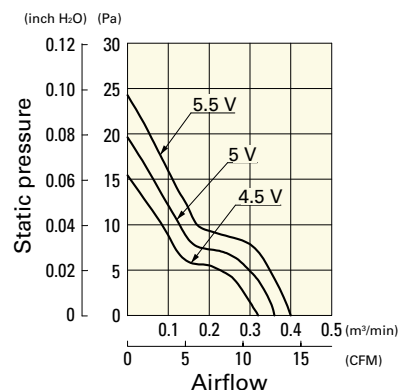
109R0605F401 With pulse sensor

Operating voltage range



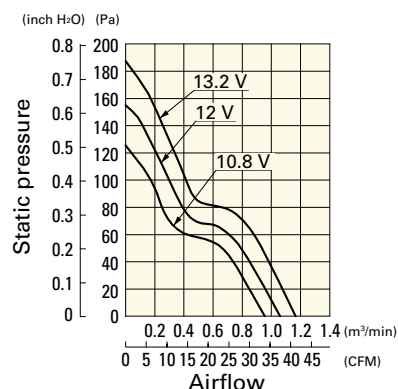
109R0605M401 With pulse sensor

Operating voltage range



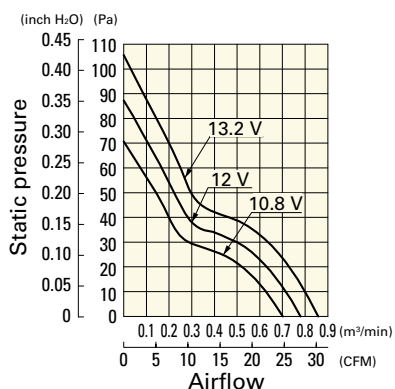
109R0612J401 With pulse sensor

Operating voltage range



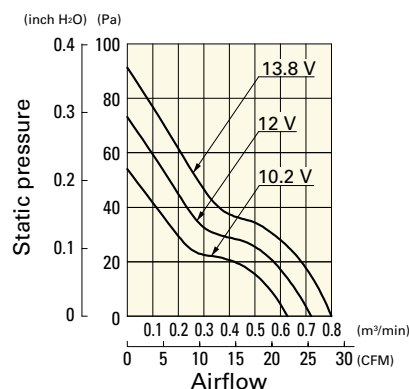
109R0612G401 With pulse sensor

Operating voltage range



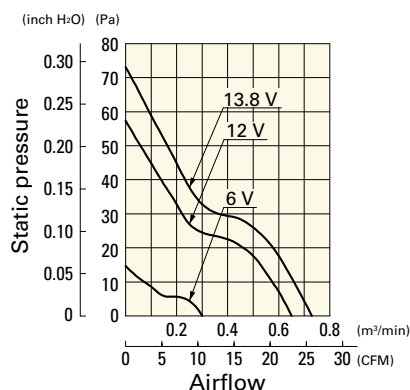
109R0612D401 With pulse sensor

Operating voltage range



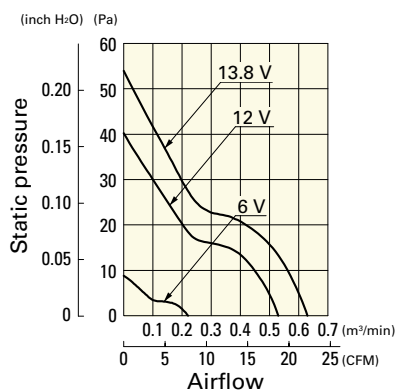
109R0612S401 With pulse sensor

Operating voltage range



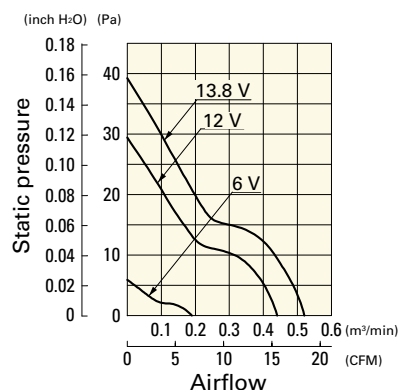
109R0612H401 With pulse sensor

Operating voltage range



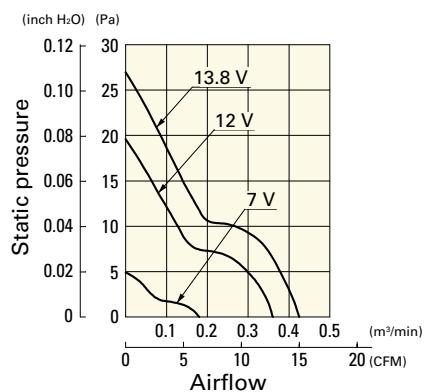
109R0612F401 With pulse sensor

Operating voltage range



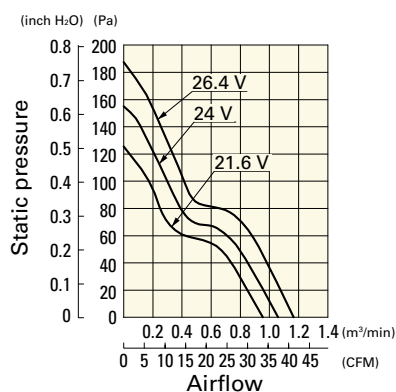
109R0612M401 With pulse sensor

Operating voltage range



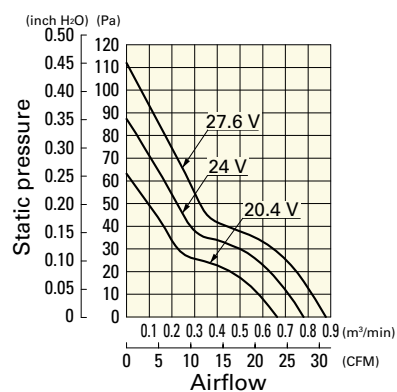
109R0624J401 With pulse sensor

Operating voltage range



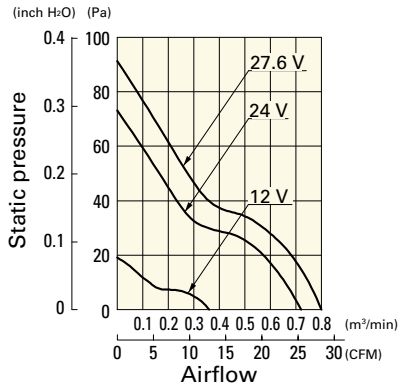
109R0624G401 With pulse sensor

Operating voltage range



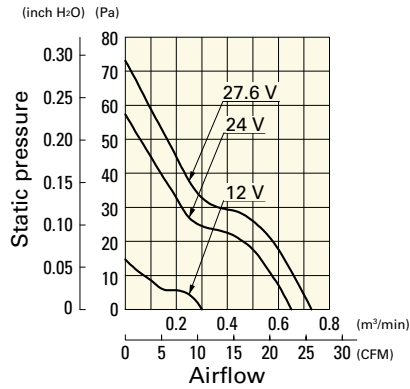
109R0624D401 With pulse sensor

Operating voltage range



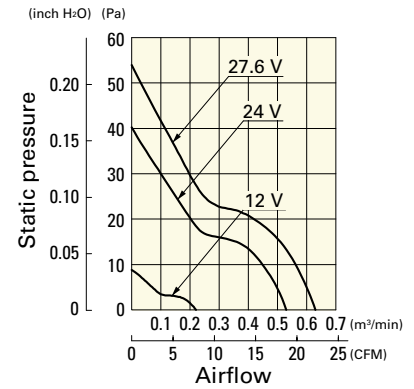
109R0624S401 With pulse sensor

Operating voltage range



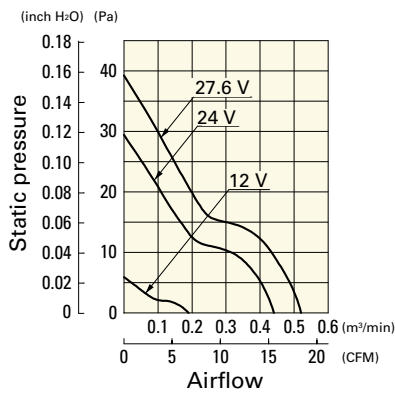
109R0624H401 With pulse sensor

Operating voltage range



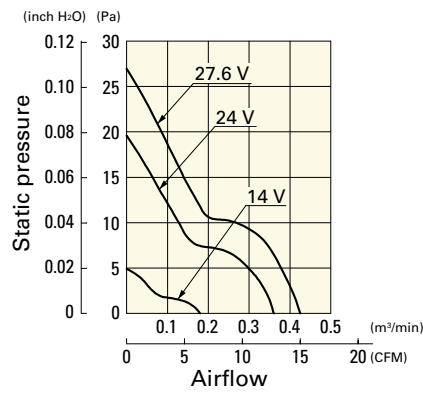
109R0624F401 With pulse sensor

Operating voltage range



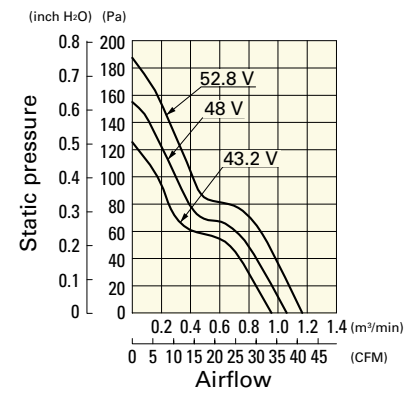
109R0624M401 With pulse sensor

Operating voltage range



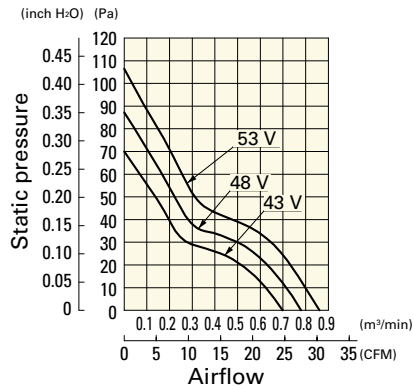
109R0648J401 With pulse sensor

Operating voltage range



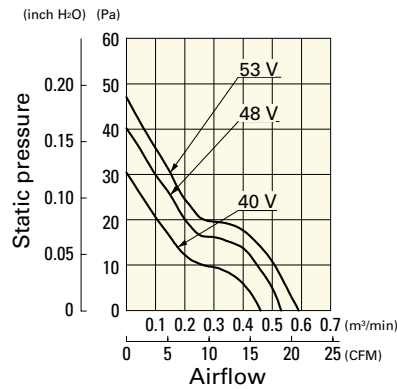
109R0648G401 With pulse sensor

Operating voltage range

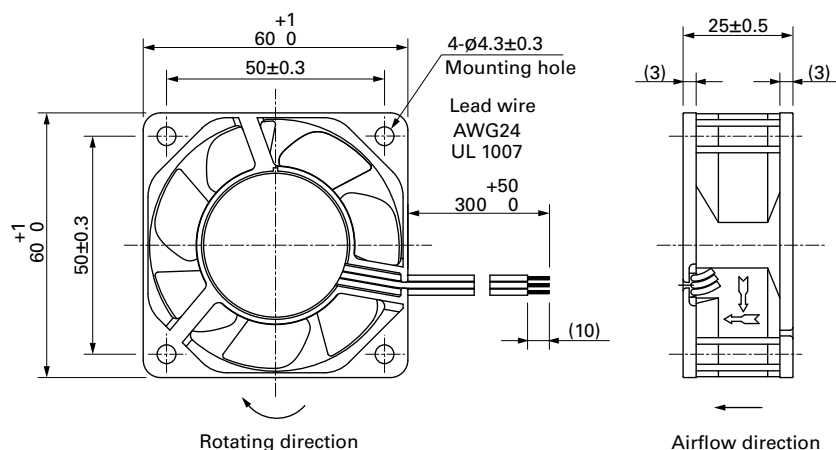


109R0648H401 With pulse sensor

Operating voltage range

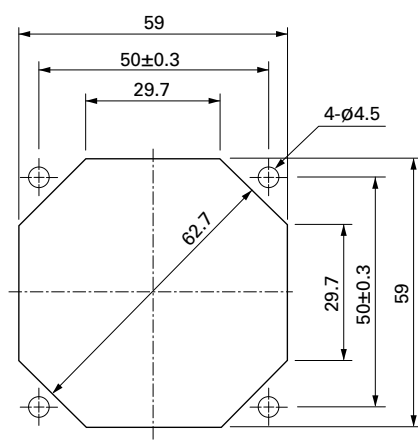


Dimensions (unit: mm) (With ribs)



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

Inlet side, Outlet side



Options

Finger guards

page: p. 558

Model no.: 109-139E, 109-139H

Resin finger guards

page: p. 565

Model no.: 109-1003G

Resin filter kits

page: p. 566

Model no.: 109-1003F13 (13PPI), 109-1003F20 (20PPI),
109-1003F30 (30PPI), 109-1003F40 (40PPI)