

Ø172x51 mm

San Ace 172 9E type



Round type



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)
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. 599.
- 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 780 g

Specifications

The models listed below **have pulse sensors**.

	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] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]	
»	109E1712K501	12	10.2 to 13.8	2.9	34.8	4100	8.5	300	243.0	0.976	55	-20 to +60	40000/60°C (70000/40°C)	
	109E1712Y501			2.3	27.6	3800	7.8	276	210.0	0.843	53			
»	109E1712H501			1.2	14.4	3050	6.4	226	137.2	0.551	47			
	109E1712F501			0.68	10.8	2500	5.1	180	95.0	0.382	42			
»	109E1712M501			0.48	5.76	2000	4.2	148	67.6	0.271	36			
»	109E1724C501	24	20.4 to 27.6	2.3	55.2	4800	9.9	350	308.0	1.237	60	-20 to +70		
»	109E1724K501			1.3	31.2	4100	8.5	300	243.0	0.976	55			
»	109E1724H501			0.58	13.92	3050	6.4	226	137.2	0.551	47			
	109E1724F501			0.35	8.4	2500	5.1	180	95	0.382	42			
»	109E1724M501			0.2	4.8	2000	4.2	148	67.6	0.271	36			
»	109E1748C501	48	40.8 to 55.2	1.2	57.6	4800	9.9	350	308.0	1.237	60	-20 to +60		
	109E1748K501			0.7	33.6	4100	8.5	300	243.0	0.976	55			
»	109E1748H501			0.28	13.44	3050	6.4	226	137.2	0.551	47			-20 to +70
	109E1748F501			0.19	9.12	2500	5.1	180	95	0.382	42			-20 to +60
	109E1748M501			0.11	5.28	2000	4.2	148	67.6	0.271	36			-20 to +70

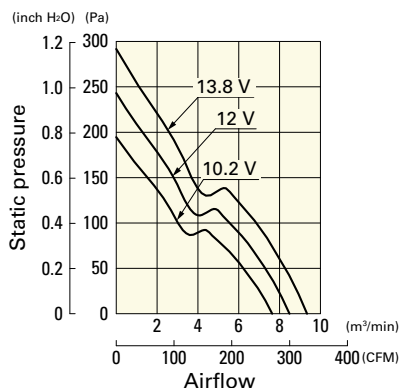
Note 1: Sensor and control options are available for selection. Refer to the table on p. 620.

Note 2: The ⚡ mark indicates Short Lead Time Service applicable models. See p. 654 for details.

Airflow - Static Pressure Characteristics

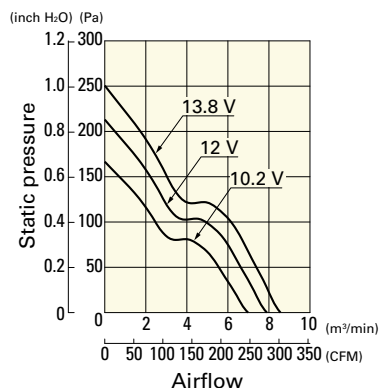
109E1712K501 With pulse sensor

Operating voltage range



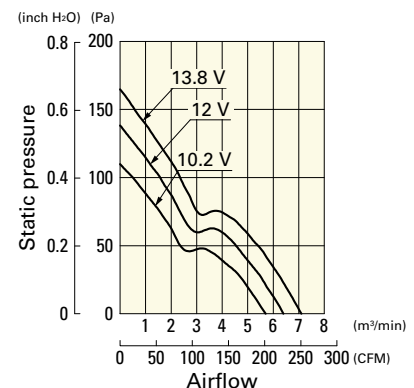
109E1712Y501 With pulse sensor

Operating voltage range



109E1712H501 With pulse sensor

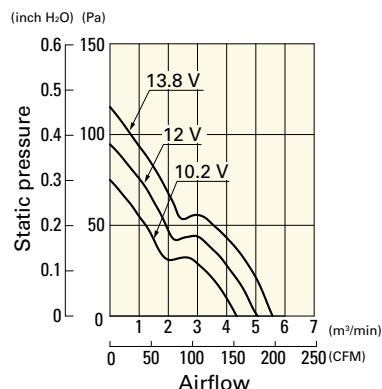
Operating voltage range



Airflow - Static Pressure Characteristics

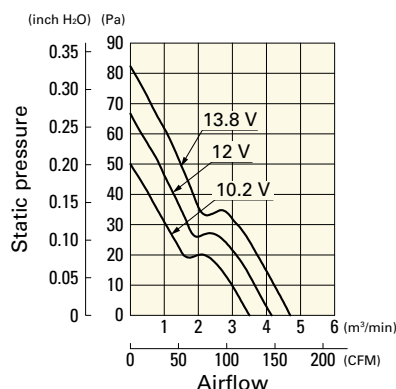
109E1712F501 With pulse sensor

Operating voltage range



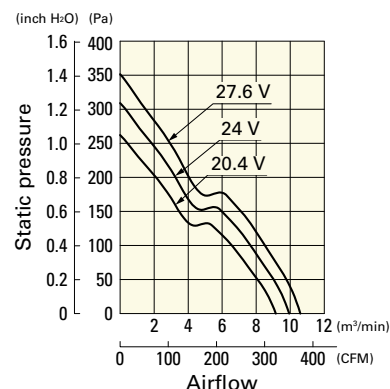
109E1712M501 With pulse sensor

Operating voltage range



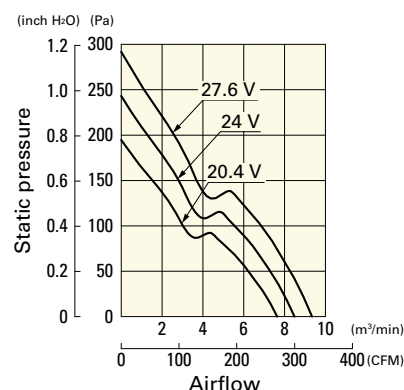
109E1724C501 With pulse sensor

Operating voltage range



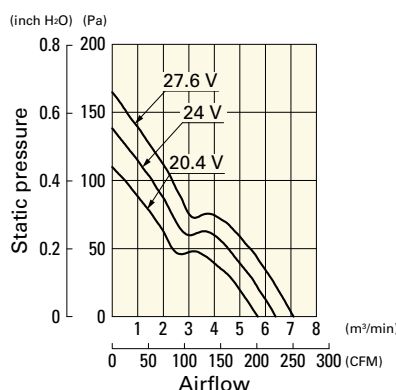
109E1724K501 With pulse sensor

Operating voltage range



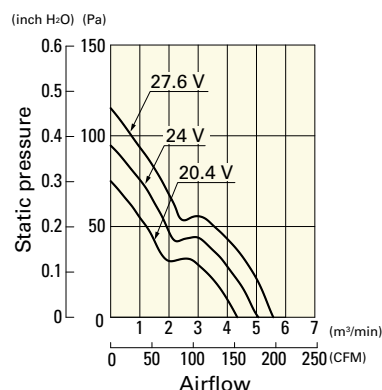
109E1724H501 With pulse sensor

Operating voltage range



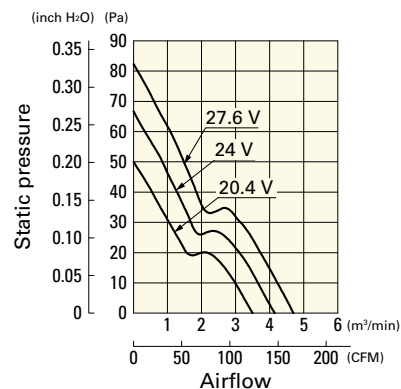
109E1724F501 With pulse sensor

Operating voltage range



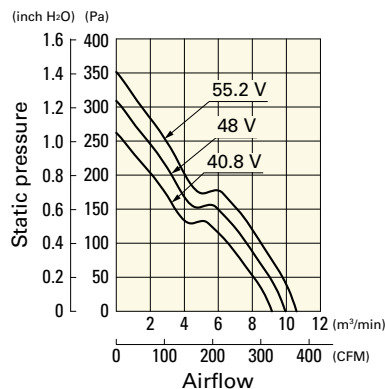
109E1724M501 With pulse sensor

Operating voltage range



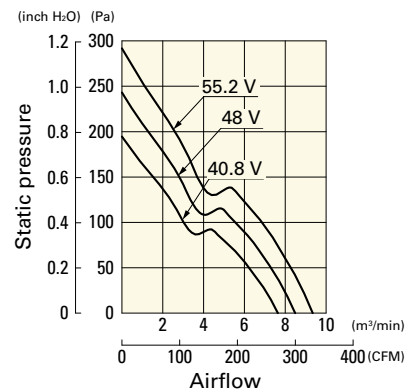
109E1748C501 With pulse sensor

Operating voltage range



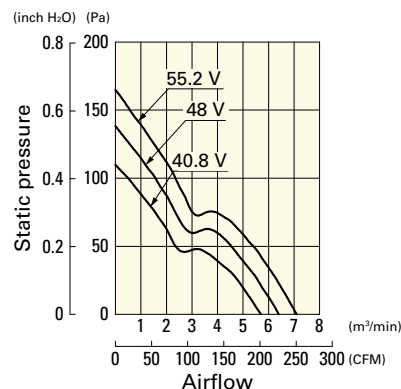
109E1748K501 With pulse sensor

Operating voltage range



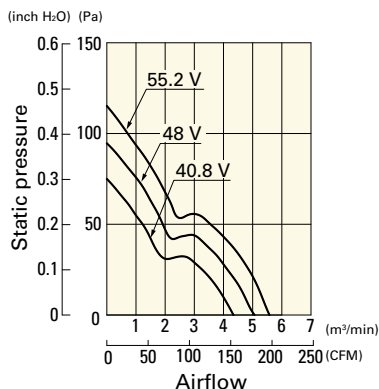
109E1748H501 With pulse sensor

Operating voltage range



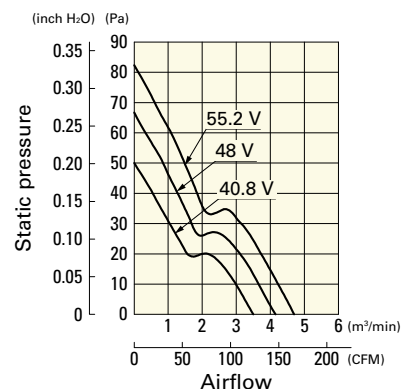
109E1748F501 With pulse sensor

Operating voltage range

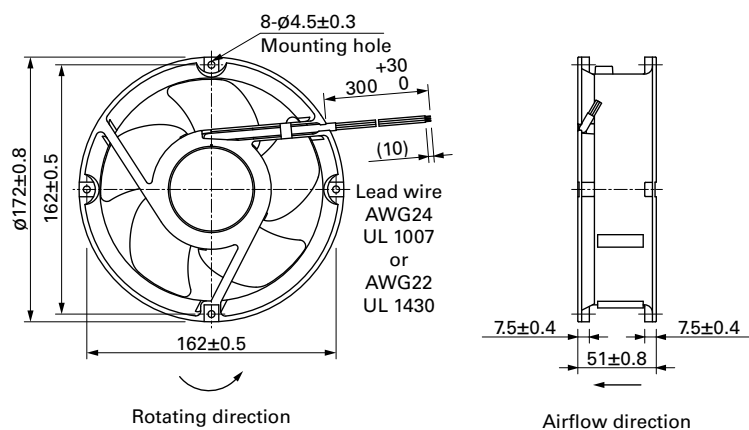


109E1748M501 With pulse sensor

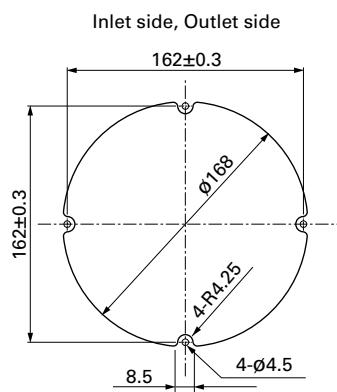
Operating voltage range



Dimensions (unit: mm)



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



Options

Finger guards

page: p. 586

Model no.: 109-1066, 109-1068, 109-319E, 109-319H, 109-320

Index by Model No. - DC Fans

Models listed in product pages	List of models (Below are optional models and not listed in product pages. Standard compliance of these optional models may differ from that of the models listed in product pages. Contact us for details of "—" models.)				Frame size	Rib	page
	Without sensor	With pulse sensor	With lock sensor	With PWM control function and pulse sensor			
109BC12FC7-1	109BC12FA7-1	» 109BC12FC7-1	109BC12FD7-1	—	52 × 15 mm	—	492
109BC12GC7-1	» 109BC12GA7-1	» 109BC12GC7-1	109BC12GD7-1	—	52 × 15 mm	—	492
109BC12HC7-1	» 109BC12HA7-1	» 109BC12HC7-1	109BC12HD7-1	—	52 × 15 mm	—	492
109BC12MC7-1	109BC12MA7-1	» 109BC12MC7-1	» 109BC12MD7-1	—	52 × 15 mm	—	492
109BC24FC7-1	» 109BC24FA7-1	109BC24FC7-1	109BC24FD7-1	—	52 × 15 mm	—	492
109BC24GC7-1	» 109BC24GA7-1	» 109BC24GC7-1	» 109BC24GD7-1	—	52 × 15 mm	—	492
109BC24HC7-1	109BC24HA7-1	» 109BC24HC7-1	109BC24HD7-1	—	52 × 15 mm	—	492
109BD12FC2	» 109BD12FA2	» 109BD12FC2	» 109BD12FD2	—	76 × 30 mm	—	496
109BD12HC2	» 109BD12HA2	» 109BD12HC2	» 109BD12HD2	109BD12PH01	76 × 30 mm	—	496
109BD12MC2	» 109BD12MA2	» 109BD12MC2	109BD12MD2	—	76 × 30 mm	—	496
109BD24FC2	» 109BD24FA2	» 109BD24FC2	109BD24FD2	—	76 × 30 mm	—	496
109BD24HC2	» 109BD24HA2	» 109BD24HC2	» 109BD24HD2	—	76 × 30 mm	—	496
109BD24MC2	» 109BD24MA2	» 109BD24MC2	» 109BD24MD2	—	76 × 30 mm	—	496
109BG12HC1	» 109BG12HA1	» 109BG12HC1	» 109BG12HD1	—	160 × 40 mm	—	512
109BG12MC1	» 109BG12MA1	» 109BG12MC1	109BG12MD1	—	160 × 40 mm	—	512
109BG24HC1	» 109BG24HA1	» 109BG24HC1	» 109BG24HD1	—	160 × 40 mm	—	512
109BG24MC1	109BG24MA1	» 109BG24MC1	109BG24MD1	—	160 × 40 mm	—	512
109BJ12HC2	» 109BJ12HA2	» 109BJ12HC2	109BJ12HD2	—	127 × 32 mm	—	510
109BJ12MC2	109BJ12MA2	» 109BJ12MC2	109BJ12MD2	—	127 × 32 mm	—	510
109BJ24HC2	109BJ24HA2	» 109BJ24HC2	» 109BJ24HD2	—	127 × 32 mm	—	510
109BJ24MC2	» 109BJ24MA2	109BJ24MC2	109BJ24MD2	—	127 × 32 mm	—	510
109BM12GC2-1	109BM12GA2-1	109BM12GC2-1	109BM12GD2-1	—	97 × 33 mm	—	506
109BM12HC2-1	109BM12HA2-1	109BM12HC2-1	109BM12HD2-1	—	97 × 33 mm	—	506
109BM12MC2-1	109BM12MA2-1	109BM12MC2-1	109BM12MD2-1	109BM12P2M01	97 × 33 mm	—	506
109BM24GC2-1	109BM24GA2-1	109BM24GC2-1	109BM24GD2-1	—	97 × 33 mm	—	506
109BM24HC2-1	109BM24HA2-1	109BM24HC2-1	109BM24HD2-1	—	97 × 33 mm	—	506
109BM24MC2-1	109BM24MA2-1	109BM24MC2-1	109BM24MD2-1	—	97 × 33 mm	—	506
109E1312A101	109E1312A102	109E1312A101	109E1312A1D01	—	127 × 127 × 38 mm	No	189
109E1312S101	109E1312S102	109E1312S101	109E1312S1D01	—	127 × 127 × 38 mm	No	189
109E1324A101	109E1324A102	109E1324A101	109E1324A1D01	—	127 × 127 × 38 mm	No	189
109E1324G101	109E1324G102	109E1324G101	109E1324G1D01	—	127 × 127 × 38 mm	No	189
109E1324S101	109E1324S102	109E1324S101	109E1324S1D01	—	127 × 127 × 38 mm	No	189
109E1348A101	109E1348A102	109E1348A101	109E1348A1D01	—	127 × 127 × 38 mm	No	189
109E1348G101	109E1348G102	109E1348G101	109E1348G1D01	—	127 × 127 × 38 mm	No	189
109E1348S101	109E1348S102	109E1348S101	109E1348S1D01	—	127 × 127 × 38 mm	No	189
109E1712F501	109E1712F502	109E1712F501	109E1712F5D01	—	ø172 × 51 mm	No	215
109E1712H501	» 109E1712H502	» 109E1712H501	109E1712H5D01	—	ø172 × 51 mm	No	215
109E1712K501	109E1712K502	» 109E1712K501	—	—	ø172 × 51 mm	No	215
109E1712M501	109E1712M502	» 109E1712M501	—	—	ø172 × 51 mm	No	215
109E1712Y501	109E1712Y502	109E1712Y501	—	—	ø172 × 51 mm	No	215
109E1724C501	109E1724C502	» 109E1724C501	109E1724C5D01	9EH1724P5C01	ø172 × 51 mm	No	215
109E1724F501	109E1724F502	109E1724F501	109E1724F5D01	—	ø172 × 51 mm	No	215
109E1724H501	» 109E1724H502	» 109E1724H501	» 109E1724H5D01	—	ø172 × 51 mm	No	215
109E1724K501	» 109E1724K502	» 109E1724K501	» 109E1724K5D01	—	ø172 × 51 mm	No	215
109E1724M501	» 109E1724M502	» 109E1724M501	109E1724M5D01	—	ø172 × 51 mm	No	215
109E1748C501	109E1748C502	» 109E1748C501	—	—	ø172 × 51 mm	No	215
109E1748F501	109E1748F502	109E1748F501	—	—	ø172 × 51 mm	No	215
109E1748H501	109E1748H502	» 109E1748H501	109E1748H5D01	—	ø172 × 51 mm	No	215
109E1748K501	109E1748K502	109E1748K501	—	109E1748P5K03	ø172 × 51 mm	No	215
109E1748M501	109E1748M502	109E1748M501	—	—	ø172 × 51 mm	No	215
109E4712L401	109E4712L402	109E4712L401	109E4712L4D01	—	ø172 × 147 × 25 mm	No	202
109E4712M401	109E4712M402	109E4712M401	109E4712M4D01	—	ø172 × 147 × 25 mm	No	202
109E4724F401	109E4724F402	109E4724F401	109E4724F4D01	—	ø172 × 147 × 25 mm	No	202
109E4724H401	109E4724H402	109E4724H401	109E4724H4D01	109E4724P4H01	ø172 × 147 × 25 mm	No	202
109E4724L401	109E4724L402	109E4724L401	109E4724L4D01	—	ø172 × 147 × 25 mm	No	202
109E4724M401	109E4724M402	109E4724M401	109E4724M4D01	—	ø172 × 147 × 25 mm	No	202
109E4748F401	109E4748F402	109E4748F401	109E4748F4D01	—	ø172 × 147 × 25 mm	No	202
109E4748H401	109E4748H402	109E4748H401	109E4748H4D01	—	ø172 × 147 × 25 mm	No	202
109E4748L401	109E4748L402	109E4748L401	109E4748L4D01	—	ø172 × 147 × 25 mm	No	202
109E4748M401	109E4748M402	109E4748M401	109E4748M4D01	—	ø172 × 147 × 25 mm	No	202
109E4748S401	109E4748S402	109E4748S401	109E4748S4D01	—	ø172 × 147 × 25 mm	No	202

Note 1: For compliance with standards, see individual product pages. Please contact your point of sale regarding low-speed sensors.

Note 2: The » mark indicates Short Lead Time Service applicable models. See p. 654 for details.