

AC Fan Motors

San Ace

120mm

San Ace

Silent best-selling models

General specifications

Motor construction Shaded pole motor
 Motor protection system Impedance protection
 Dielectric strength 50/60 Hz, 1500 VAC, 1 minute
 (between input terminal and frame)
 Operating voltage range +10%
 Plug cord For general; 489-016 (L10, L21)
 For UL/CSA 489-007 (L10, L21) 489-007Y (L10, L21)
 For UL/CSA 489-047 (L10, L21) 489-047Y (L10, L21)



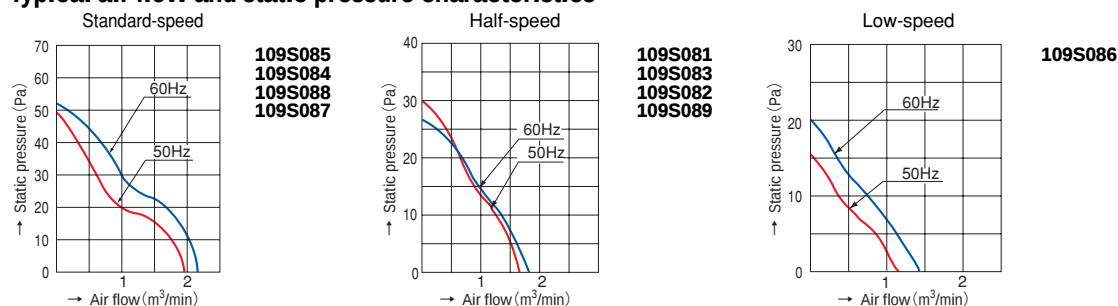
25mm thick SAN ACE

Specifications (Operating thermally range -30°C to +60°C)

Model	Voltage (V)	Frequency (Hz)	Input (W)	Current (A)	Bound current (A)	Rotating speed (min ⁻¹)	Air flow (m³/min)	CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109S085	100	50/60	13.5/12	0.16/0.14	0.19/0.17	2500/2900	1.92/2.22	67.8/78.4	49/53.9	38/41	370
109S084	115			0.14/0.12	0.16/0.15						
109S088	200			0.08/0.07	0.1/0.09						
109S087	230		9.5/8.5	0.07/0.06	0.08/0.07	2200/2350	16.3/1.78	57.6/62.9	29.4/26.3	34/35	
☆ 109S081	100			0.11	0.11/0.1						
☆ 109S083	115			0.1	0.1/0.09						
☆ 109S082	200			0.07	0.07/0.06						
☆ 109S089	230		12/10	0.06	0.06/0.05	1400/1600	1.11/1.35	39.2/47.7	15.7/19.6	24/27	
※ 109S086	100			0.14/0.12	0.15/0.13						

☆ represents half-speed. ※ represents low-speed.

Typical air flow and static pressure characteristics

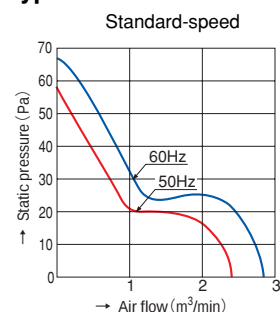


38mm thick SAN ACE

Specifications (Operating thermally range -30°C to +60°C)

Model	Voltage (V)	Frequency (Hz)	Input (W)	Current (A)	Bound current (A)	Rotating speed (min ⁻¹)	Air flow (m ³ /min) (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109S005	100	50/60	14/12	0.18/0.16	0.25/0.22	2700/3100	2.35/2.7 83/95.4	55.9/65.7	40/43	550
109S005UL	120			0.16/0.14	0.21/0.18					
109S024	115			0.09/0.08	0.13/0.11					
109S008	200		14/12	0.08/0.07	0.11/0.09					
109S008UL	230			0.08/0.07	0.11/0.09					
109S025	230			0.08/0.07	0.11/0.09					
109S025UL	230			0.08/0.07	0.11/0.09					

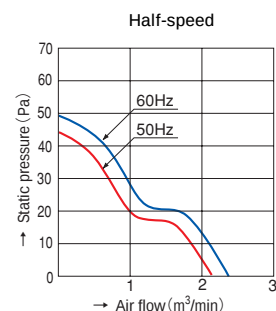
Typical air flow and static pressure characteristics



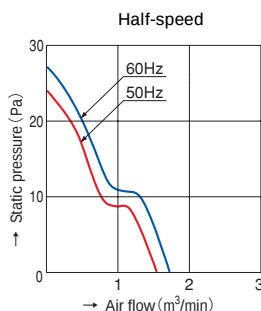
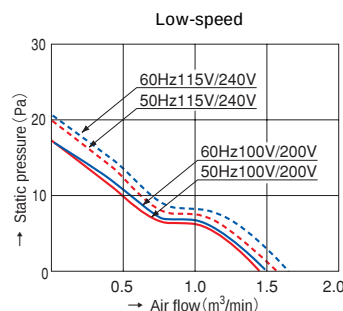
38mm thick SAN ACE**Specifications**

Model	Voltage (V)	Frequency (Hz)	Input (W)	Current (A)	Bound current (A)	Rotating speed (min ⁻¹)	Air flow (m ³ /min) (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
☆109S029UL	100	50/60	14/12	0.18/0.16	0.23/0.21	2450/2700	2.15/2.35 76/83	44.1/49.0	38/40	550
☆109S013			13/11	0.16/0.14	0.16/0.15	1800/2000	1.54/1.72 54.4/60.8	24/27	30/32	
☆109S013UL			7/7	0.1/0.09	0.1/0.09	1650/1700	1.45/1.5 51.2/53	17.6/17.6	28/28	
※109S006			7/7	0.1/0.095	0.1/0.09	1650/1700	1.45/1.5 51.2/53	17.6/17.6	28/28	
※109S006UL	115	50/60	10/10	0.13/0.11	0.12/0.11	1800/1900	1.56/1.64 55/57.9	20/20.6	29/29	
※109S010			7/7	0.05/0.04	0.05/0.04	1650/1700	1.45/1.5 51.2/53	17.6/17.6	28/28	
※109S010UL	200	50/60	7/7	0.05/0.04	0.05/0.04	1650/1700	1.45/1.5 51.2/53	17.6/17.6	28/28	
	240	50/60	11/11	0.06/0.05	0.06/0.05	1800/1950	1.58/1.68 55.8/59.3	20.6/21.6	30/32	

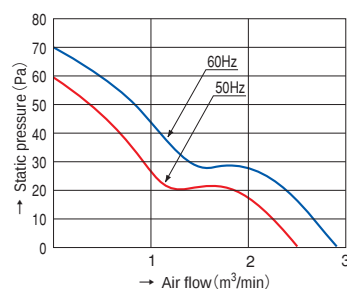
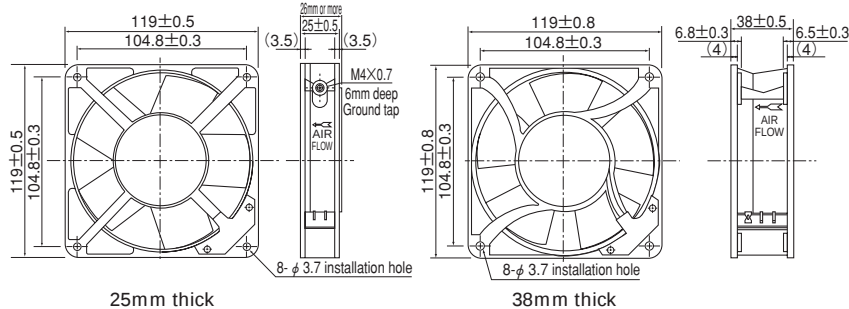
☆ represents half-speed. ※ represents low-speed.

Typical air flow and static pressure characteristics

109S029UL

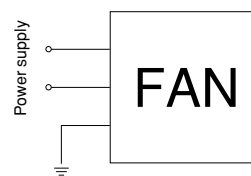
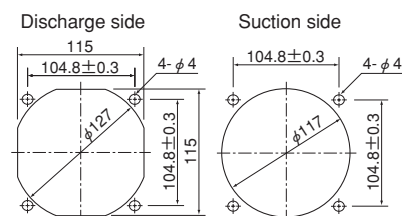
109S013
109S013UL109S006
109S006UL
109S010
109S010UL**38mm thick New SAN ACE****Specifications**

Model	Voltage (V)	Frequency (Hz)	Input (W)	Current (A)	Bound current (A)	Rotating speed (min ⁻¹)	Air flow (m ³ /min) (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109S075UL	100	50/60	18/16	0.24/0.21	0.32/0.28	2700/3100	2.5/2.9 88.3/102.5	57.9/68.7	42/45	550
109S074UL	115			0.21/0.18	0.27/0.24					
109S078UL	200			0.12/0.1	0.16/0.14					
109S072UL	230			0.11/0.09	0.14/0.13					

Typical air flow and static pressure characteristics109S075UL 109S074UL
109S078UL 109S072UL**Dimensions (unit : mm)**

25mm thick

38mm thick

Reference dimensional diagram for installation holes (unit : mm)**Wiring diagram**

How to read the model number

How to read the model number

General fans

109	R	12	12	H	1	D01	1
Represents a fan motor.		Frame dimensions code 04 : 40 x 40mm 05 : 52 x 52mm 06 : 60 x 60mm 08 : 80 x 80mm 09 : 92 x 92mm 12 : 119 x 119mm 14 : 140 x 140mm 17 : 172mm dia 57 : 172mm dia, 51mm wide, side cut	Voltage code 05 : 5V 12 : 12V 21 : 21V 24 : 24V 48 : 48V	Speed code S : Super-speed H : High speed F : Medium speed between H and M M : Middle speed L : Low speed W : Wide range MH: Two speeds, H and M		Sensor and specific specifica- tion code 01 : With pulse sensor 02 : Sensor-less D01: With lock sensor H01: With low-speed sensor	Ribless 1 Ribbed
Additional number: Used to classify the remodeling per- formed or for other purposes. P : Mold frame type R : Mold frame type E : Aluminum frame L : Long Life Fan W : Splash Proof Fan					Frame thickness code 1 : 38mm thick 5 : 51mm thick 2 : 32mm thick 6 : 20mm thick 3 : 28mm thick 7 : 15mm thick 4 : 25mm thick		

Thermally speed controlled fans

109	R	12	12	T	1	H	11	2
Represents a fan motor.		Frame dimensions code 05 : 52 x 52mm 06 : 60 x 60mm 08 : 80 x 80mm 09 : 92 x 92mm 12 : 119 x 119mm	Voltage code 12 : 12V	Represents a thermally speed controlled fan.	Frame thickness code 1 : 38mm thick 4 : 25mm thick 6 : 20mm thick 7 : 15mm thick	Speed code H : High speed	Sensor and specific speci- fication code 10 : With lock sensor 11 : With pulse sensor 12 : Sensor-less	External view code Nil: Ribbed frame product with an external thermistor 1 : Ribless frame product with an external thermistor 2 : Ribbed frame product with a built-in thermistor 3 : Ribless frame product with a built-in thermistor
Additional number: Used to clas- sify the remodeling performed or for other purposes. P : Mold frame type R : Mold frame type								

CPU cooler

109	P	44	05	H	8	D01	6
Represents a fan motor.		Heat sink dimensions code 44 : 45 x 45mm or 44.5 x 44.5mm 54 : 54 x 54mm or 50.8 x 50.8mm 66 : 66 x 62mm	Voltage code 05 : 5V 12 : 12V	Speed code H : High speed M : Middle speed	Frame thickness code 2 : 30mm thick 8 : 18mm thick 9 : 10mm thick	Sensor and specific speci- fication code 01 : With pulse sensor 02 : Sensor-less D01 : With lock sensor	External view code 6 : Terminal type
Additional number: Used to classify the remodeling per- formed or for other purposes. P : Mold frame type							

Sirocco fan

109	B	F	12	H	A	2
Represents a fan motor.		Frame dimensions code F : 120 x 120mm	Voltage code 12 : 12V 24 : 24V	Speed code H : High speed M : Middle speed	Sensor specification code A : Sensor-less C : With a pulse sensor D : With a lock sensor	Frame thickness code 2 : 32mm thick
Additional number: Used to clas- sify the remodeling performed or for other purposes. B : Represents a sirocco fan.						



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