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SERIES: CAF-A2S | DESCRIPTION: AC AXIAL FAN

FEATURES

- sleeve bearing
- 120 x 120 mm frame
- 110~125 or 220~240 Vac
- multiple speed options



MODEL

MODEL	input voltage rated (50/60 Hz) (Vac)	input current[1] max (50/60 Hz) (A)	input power[1] (50/60 Hz) (W±2)	rated speed[1] typ (50/60 Hz) (RPM±10%)	airflow[2] (50/60 Hz) (CFM)	static pressure[3] (50/60 Hz) (inch H_2O)	noise[4] typ (50/60 Hz) (dBA)
CAF-A225S-118-300	110	0.16/0.15	12.7/10.8	1,800[5]/1,700[5]	44.69/45.50	0.06/0.05	32.6/35.2
CAF-A225S-120-350	110	0.19/0.17	14.2/10.8	2,000[6]/2,000[6]	51.94/53.87	0.11/0.10	36.4/37.3
CAF-A225S-218-300	220	0.09/0.08	12.3/9.7	1,800[5]/1,700[5]	44.69/45.50	0.08/0.08	32.4/32.8
CAF-A225S-220-350	220	0.12/0.10	15.7/11.5	2,000[6]/2,000[6]	51.94/53.87	0.11/0.10	36.4/37.3
CAF-A238S-120-300	110	0.17/0.15	7.1/7.1	2,200[5]/1,800[5]	68.20/52.41	0.15/0.08	30.0/29.0
CAF-A238S-124-370	110	0.15/0.14	9.3/8.2	2,400[5]/2,100[5]	72.07/63.52	0.19/0.10	37.7/35.6
CAF-A238S-126-400	110	0.30/0.25	19.8/17.1	2,600/2,900	78.04/84.85	0.26/0.25	39.5/42.6
CAF-A238S-220-300	220	0.08/0.07	7.1/7.1	2,200[5]/1,800[5]	68.20/52.41	0.15/0.08	36.2/29.9
CAF-A238S-224-370	220	0.11/0.10	11.2/9.7	2,400[5]/2,400[5]	71.38/73.30	0.20/0.14	37.7/37.7
CAF-A238S-226-400	220	0.13/0.12	16.0/12.7	2,600/2,900	78.57/88.14	0.26/0.28	41.0/44.3

Notes:
1. At rated voltage, will reach bottom line of specifications after 5 minutes. Will reach standard specification after 10 minutes continuously running.
2. At rated voltage, room temperature, 65% humidity, 0 inch H_2O static pressure.
3. At rated voltage, 0 CFM airflow.
4. Measured in an anechoic chamber as per ISO3745/GB4214-84 at rated voltage, with background noise 10±2 dBA at 1 m from the fan intake.
5. Typical rated speed is measured as RPM±250 at rated voltage.
6. Typical rated speed is measured as RPM±300 at rated voltage.
7. All specifications are measured at 25°C, 65% relative humidity unless otherwise specified.

INPUT

parameter	conditions/description	min	typ	max	units
operating input voltage	110 Vac input models 220 Vac input models	100 220	110	125 240	Vac Vac
starting voltage	CAF-A225S-120-350, CAF-A238S-126-400 models all other 110 Vac input models 220 Vac input models		85 90 175		Vac Vac Vac
locked current	CAF-A225S-118-300 (50/60 Hz) CAF-A225S-120-350 (50/60 Hz) CAF-A225S-218-300 (50/60 Hz) CAF-A225S-220-350 (50/60 Hz) CAF-A238S-120-300 (50/60 Hz) CAF-A238S-124-370 (50/60 Hz) CAF-A238S-126-400 (50/60 Hz) CAF-A238S-220-300 (50/60 Hz) CAF-A238S-224-370 (50/60 Hz) CAF-A238S-226-400 (50/60 Hz)		0.14/0.13 0.17/0.15 0.07/0.07 0.10/0.08 0.17/0.15 0.15/0.14 0.30/0.27 0.06/0.05 0.10/0.08 0.12/0.10		A A A A A A A A A A

PROTECTIONS / FEATURES

parameter	conditions/description	min	typ	max	units
impedance protected motor	on all models				
insulated type	Class B (130 °C)				

SAFETY & COMPLIANCE

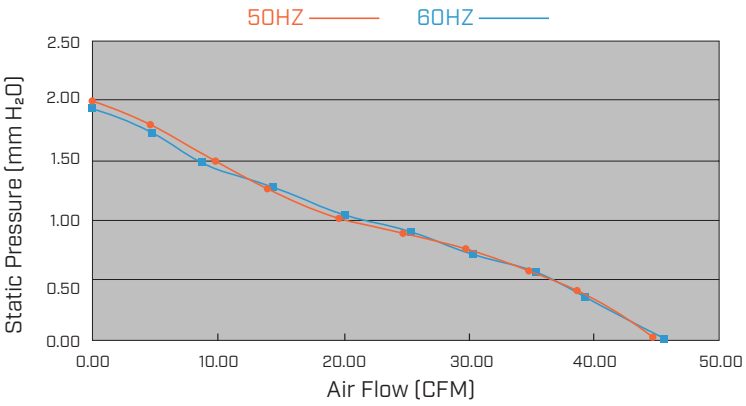
parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc between frame and both lead wires	10			MΩ
dielectric strength	for 1 minute at 1 mA between frame and lead wires		1500		Vac
safety approvals	UL/cUL 507, TUV (EN 60335-1:2012+A11+A13+A1+A14+A2+A15, EN 60335-2-80:2003+A1+A2, EN 62233:200*)				
EMI/EMC	EN 55014-1:2017+A11, EN/IEC 61000-3-2:2019, EN 61000-3-3:2013+A1, EN 55014-2:2015				
life expectancy	at 25°C, 65% RH, 90% confidence level		30,000		hours
RoHS	yes				

ENVIRONMENTAL

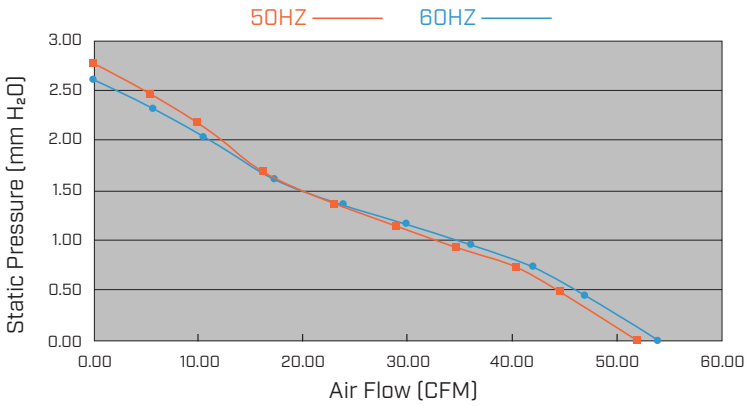
parameter	conditions/description	min	typ	max	units
operating temperature		-10		70	°C
storage temperature		-40		80	°C

PERFORMANCE CURVES

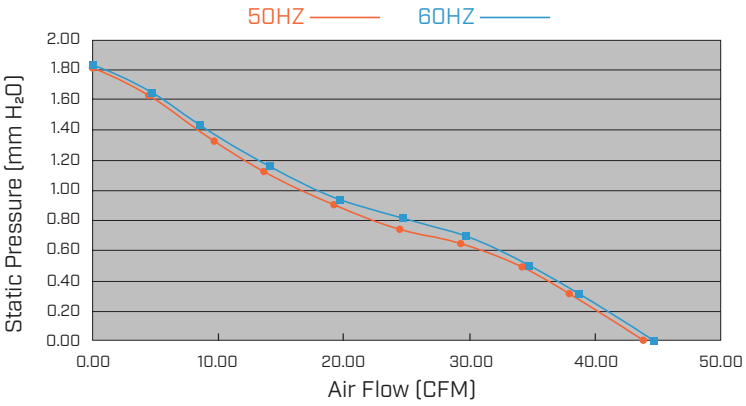
CAF-A225S-118-300



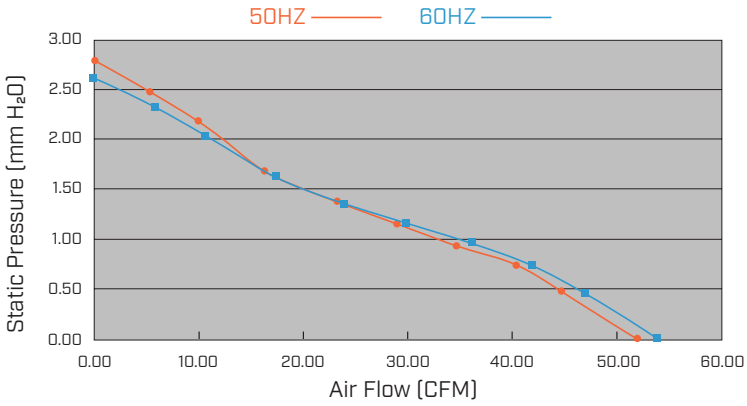
CAF-A225S-120-350



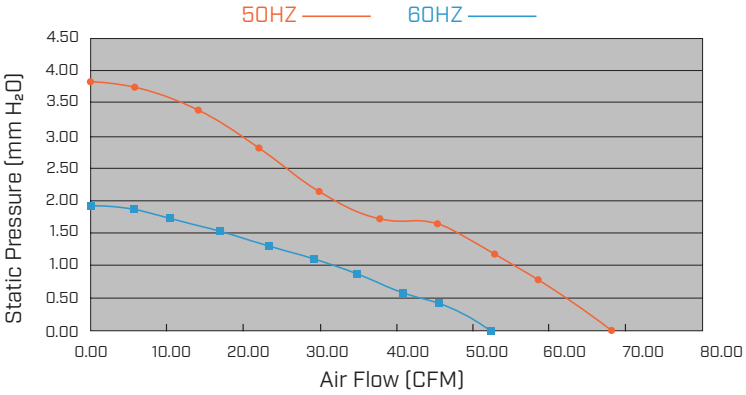
CAF-A225S-218-300



CAF-A225S-220-350

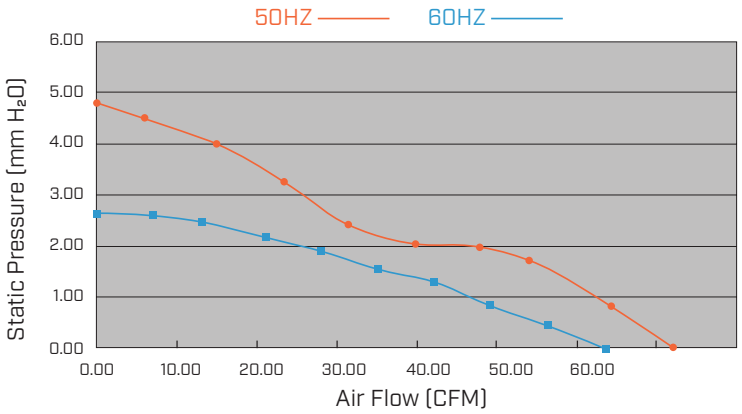


CAF-A238S-120-300

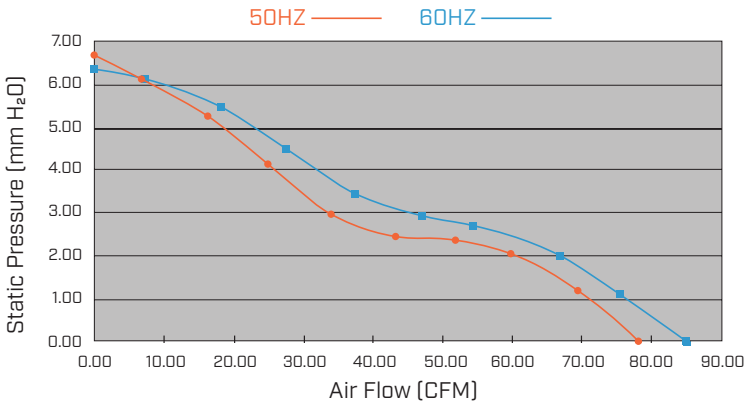


PERFORMANCE CURVES (CONTINUED)

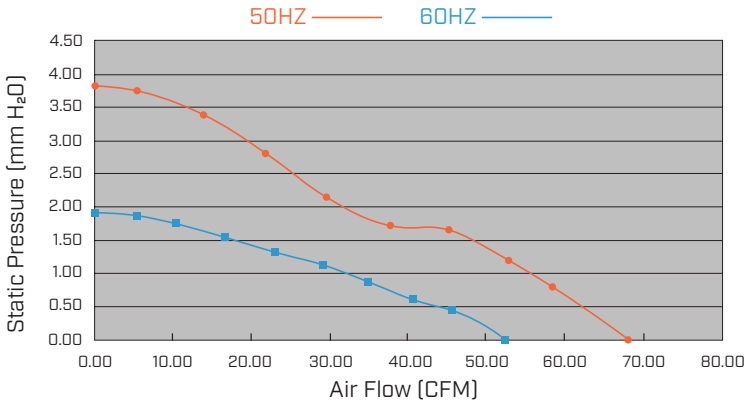
CAF-A238S-124-370



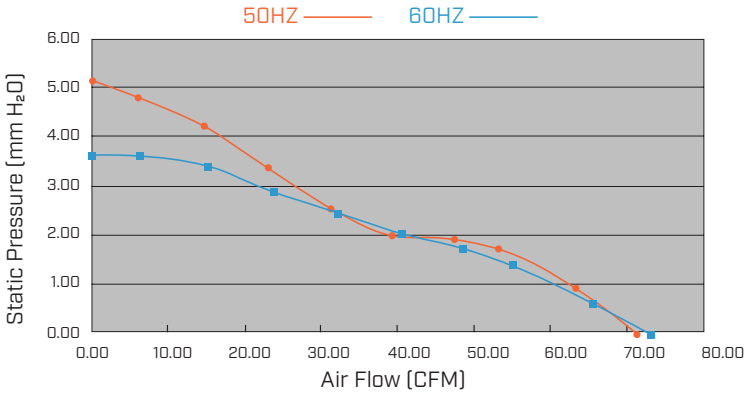
CAF-A238S-126-400



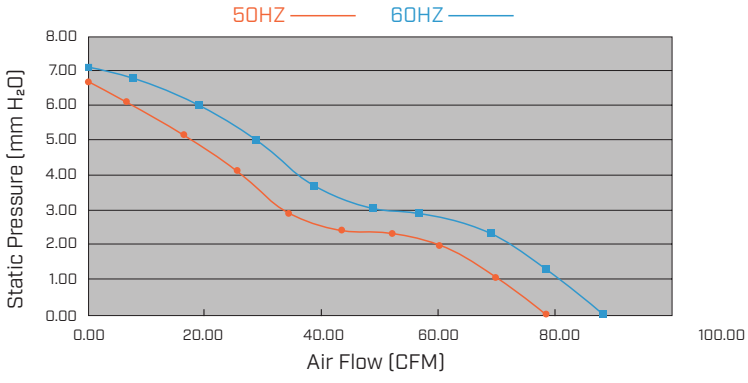
CAF-A238S-220-300



CAF-A238S-224-370



CAF-A238S-226-400



MECHANICAL

parameter	conditions/description	min	typ	max	units
motor	AC brushless				
bearing system	sleeve bearing				
direction of rotation	counter-clockwise viewed from front of fan blade				
dimensions	CAF-A225S models: 119.6 x 119.6 x 26.0 CAF-A238S models: 119.5 x 119.5 x 38.5				mm mm
material	fan frame: aluminum fan impellar: PBT (UL94V-0)				
weight	CAF-A225S models: weight varies by model CAF-A238S models: weight varies by model	285 460		287 475	g g

MECHANICAL DRAWING

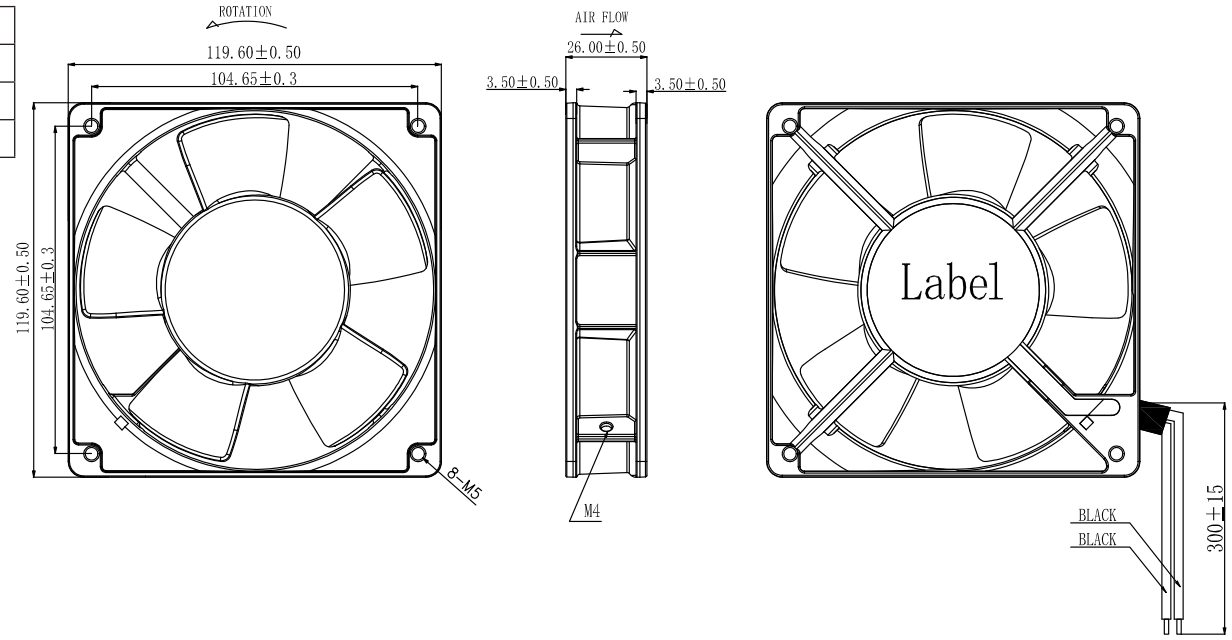
units: mm

wires: UL 1007, 22 AWG

MOUNTING SCREW (Pan Head)			
Screw Type	Mounting Hole	Screw Size	Torque
Machine Screw	M4X0.7	M4X0.7	1.5 N-m
Machine Screw	M5X0.8	M5X0.8	2.0 N-m

CAF-A225S

WIRE CONNECTIONS	
Wire Color	Function
Black	+Vin
Black	-Vin



MECHANICAL DRAWING (CONTINUED)

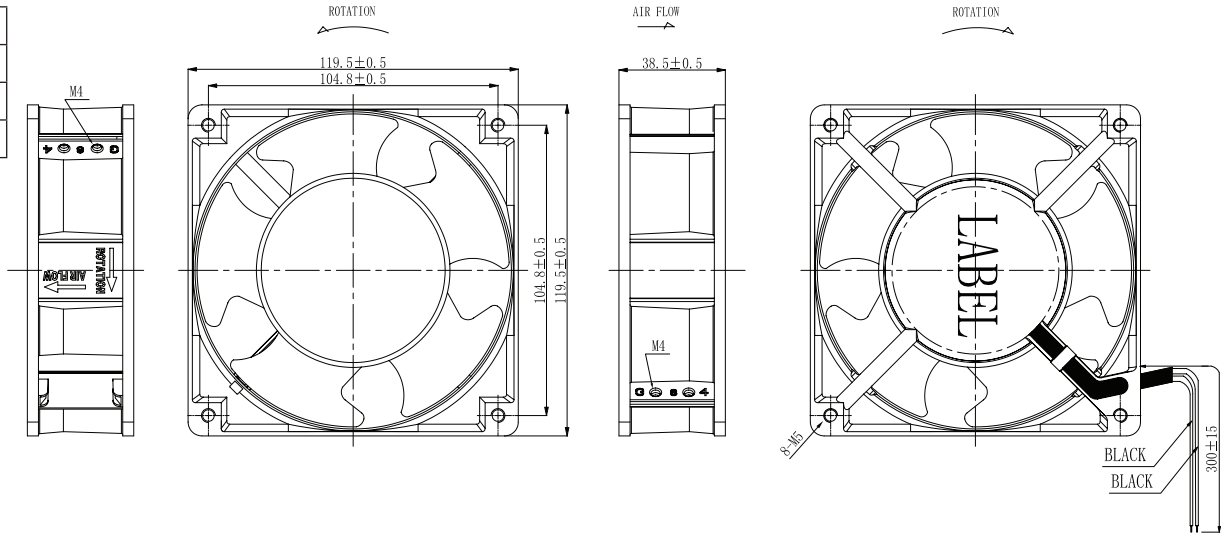
units: mm

wires: UL 1007, 22 AWG

MOUNTING SCREW (Pan Head)			
Screw Type	Mounting Hole	Screw Size	Torque
Machine Screw	M4X0.7	M4X0.7	1.5 N-m
Machine Screw	M5X0.8	M5X0.8	2.0 N-m

CAF-A238S

WIRE CONNECTIONS	
Wire Color	Function
Black	+Vin
Black	-Vin



REVISION HISTORY

rev.	description	date
1.0	initial release	10/17/2023
1.01	adjusted frame size of CAF-A225S models	05/06/2024
1.02	CUI Devices rebranded to Same Sky	09/12/2024

The revision history provided is for informational purposes only and is believed to be accurate.

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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