

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	EC AXIAL Fan
DIMENSIONS	:	120 X 120 X 38 mm
MODEL	:	CF4113LBT-000U-AA9
SUNON SPEC. NO.	:	A12010360G-00
CUSTOMER APPROVAL NO.	:	
APPROVED BY CUSTOMER	:	

(AUTHORIZED)

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	04/06		Kluuy			REVISION DATE	
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建準電	機工業股份	}有限公司	J				
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KAOH	SIUNG CI	TY 80673,	, TAIWAN (R.	O.C)	FAX:886-7-8	8230505/823060	6/8231010
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EC AXIAL Fan MODEL : CF4113LBT-000U-AA9

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CHARACTERISTICS

1. Motor Design	:	Single phase, 4-poles Brushless DC motor.
2. Insulation Resistance	:	10 Megohms minimum at 500 VDC.
3. Dielectric Strength	:	1800 VAC for one second.
4. Motor Protection	:	Impedance Protected.
5. Noise Level	:	Measured in a semi-anechoic chamber
		with background noise level below 15
		dB(A). The fan is running in free air with the
		microphone at a distance of one meter
		from the fan intake.
6. Tolerance	:	± 20% on rated power and current.
7. Air Performance	:	Measured by a double chamber. The values
		are recorded when the fan speed has stabilized
		at rated voltage.
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SPECIFICATIONS

MODEL : CF4113LBT-000U-AA9	
1-1. Rated Voltage	: 110 VAC 50/60 Hz 230 VAC 50/60 Hz
1-2. Operating Voltage Range	: 90~265 VAC 50~60 Hz
1-3. Safety Certification Voltang Range	: 100~240 VAC 50~60 Hz
1-4. Starting Voltage	: 85 VAC (25 deg. C POWER ON/OFF)
1-5. Rated Speed	: 2000 RPM ± 15%
1-6. Air Delivery	: 64.3 CFM / Min. 47.3CFM
1-7. Static Pressure	: 0.17 Inch-H ₂ O / Min. 0.11 Inch-H ₂ O
1-8. Rated Current	: 37 mA 22 mA
1-9. Rated Power	: 1.80 WATTS
1-10. Noise Level	: 31.4 dB(A) / Max. 35.9 dB(A)
1-11. Direction of Rotation	: Counter-clockwise viewed from front of fan blade
1-12. Operating Temperature	: -25 to +70 deg. C
1-13. Storage Temperature	: -40 to +80 deg. C
1-14. Bearing System	: Precision ball bearing system
1-15. Weight	: 270 g
1-16. Safety	: UL/CUR/TUV/CE Approvals
1-17. Protection	: Automatic Restart Capability Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released.
	□ Polarity Protection
1-18. IP Class:IP21	: The IP test of this product is conducted in accordance with IEC standard 60529 (or IEC 34-5).

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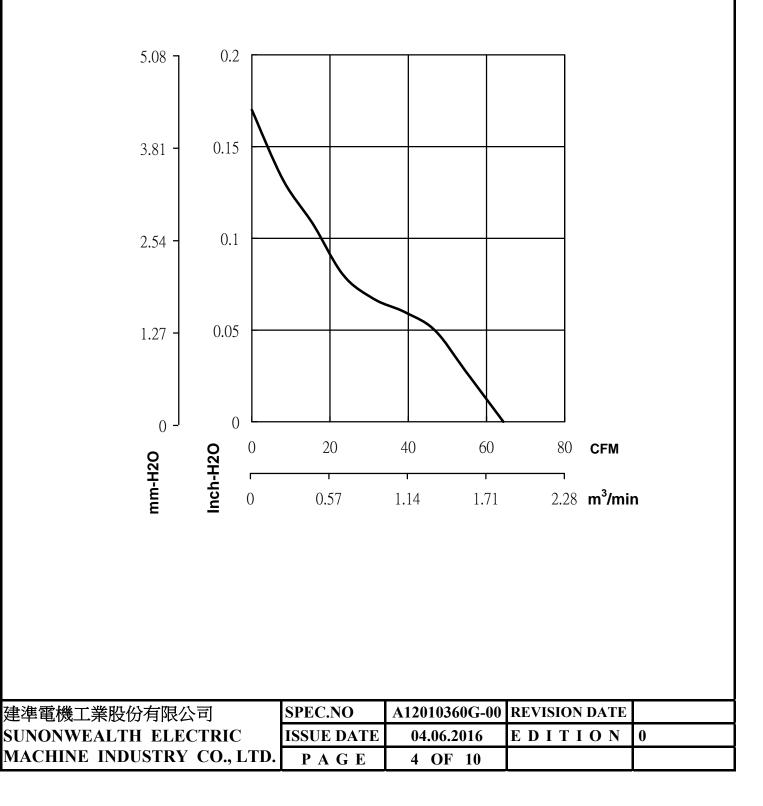
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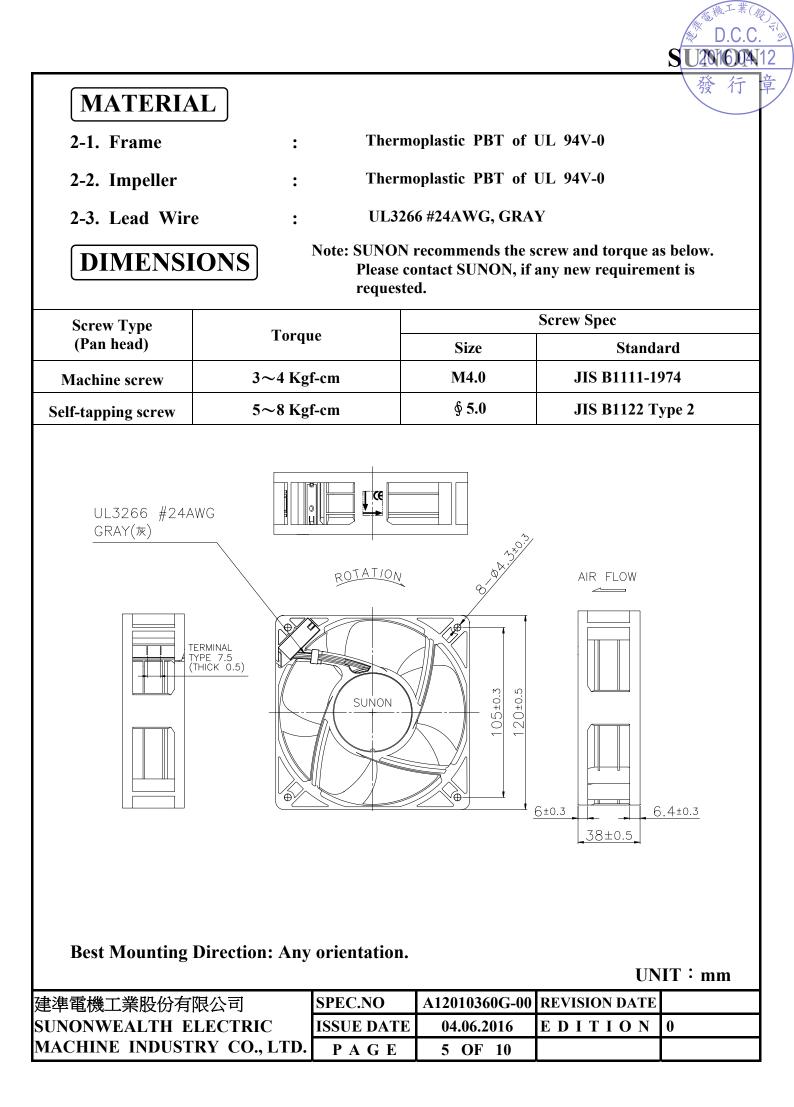
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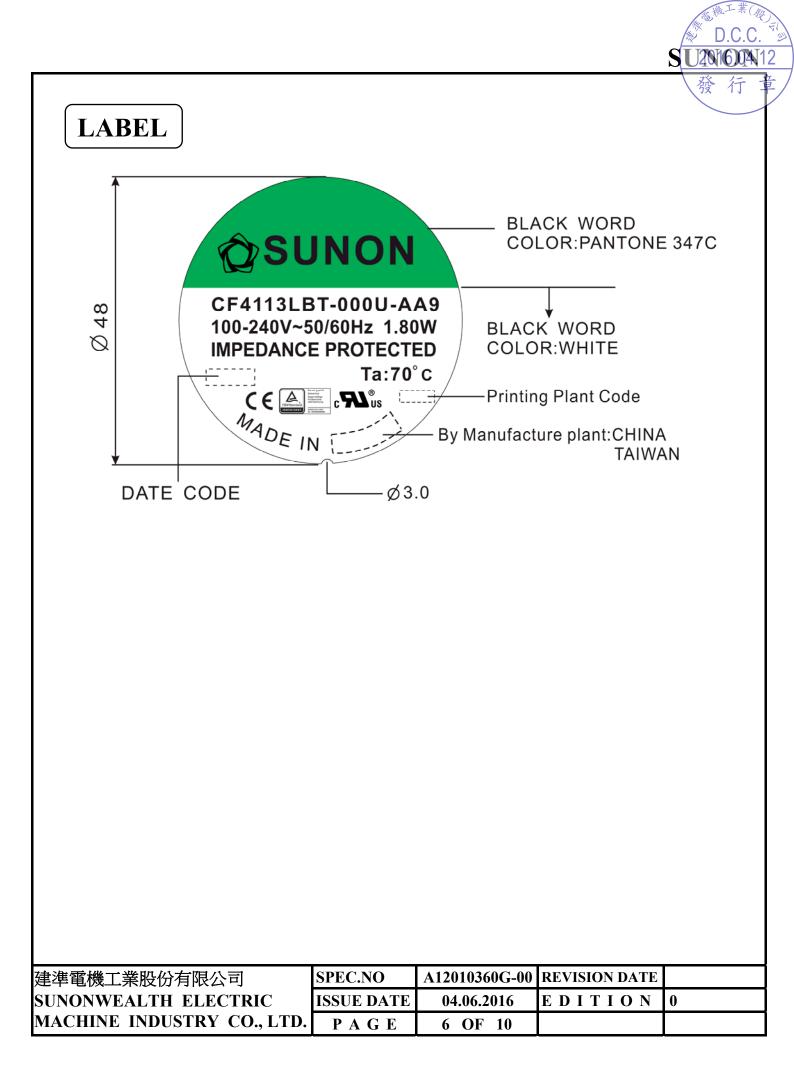
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PERFORMANCE CURVES







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Notes

I .SAFETY

- 1. DO NOT use or operate this fan in excess of the limitations set forth in this specification. SUNON is not responsible for the non-performance of this fan and/or any damages resulting from its use, if it is not used or operated in accordance with the specifications.
- 2. SUNON recommends adding a protection circuit to the product or application in which this fan is installed, such as a thermo-fuse, or current-fuse or thermoprotector. The failure to use such a device may result in smoke, fire, electric shock by insulation degradation in cases of motor lead short circuit, overload, or over voltage, and/or other failure.
- 3. SUNON recommends installing a protection device to the product or application in which this fan is installed if there is a possibility of reverse-connection between VDC (+) and GND (-). The failure to install such a device may result in smoke, fire, and/or destruction, although these conditions may not manifest immediately.
- 4. This fan must be installed and used in compliance with all applicable safety standards and regulations.
- 5. Use proper care when handling and/or installing this fan. Improper handling or installation of this fan may cause damage that could result in unsafe conditions.
- 6. Use proper care during installation and/or wiring. Failure to use proper care may cause damage to certain components of the fan including, but not limited to, the coil and lead wires, which could result in smoke and/or fire.
- 7. DO NOT use power or ground PWM to control the fan speed. If the fan speed needs to be adjusted, please contact SUNON to customize the product design for your application.
- 8. For critical or extreme environments, including non stop operation, please contact SUNON and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.

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Notes



- 1. SUNON offers engineering assistance on fan installation and cooling system design.
- 2. All changes, modifications and/or revisions to the specifications, if any, are incorporated in the attached specifications.
- 3. No changes, modifications and/or revisions to these specifications are effective absent agreement, by both SUNON and the customer, in writing.
- 4. This fan will be shipped in accordance with the attached specification unless SUNON and the customer have agreed otherwise, in writing, as specified in Paragraph 3, above.

III. OTHER

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2. Use proper care when handling this fan. Components such as fan holders or bearings may be damaged, if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits of the fan.
- 3. DO NOT operate this fan in proximity to hazardous materials such as organic silicon, cyanogens, formalin, phenol, or corrosive gas environments including, but not limited to, H₂S, SO₂, NO₂, or Cl₂.
- 4. SUNON recommends that you protect this fan from exposure to outside elements such as dust, condensation, humidity or insects. Exposure of this fan to outside elements such as dust, condensation, humidity or insects may affect its performance and may cause safety hazards. SUNON does not warrant against damage to the product caused by outside elements.

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Notes

- 5. This fan must be installed properly and securely. Improper mounting may cause harsh resonance, vibration, and noise.
- 6. Fan guards may prevent injury during handling or installation of the fan and are available for sale with this fan.
- 7. Unless otherwise noted, all testing of this fan is conducted at 25°C ambient temperature and sixty-five percent (65%) relative humidity.
- 8. DO NOT store this fan in an environment with high humidity. This fan must be stored in accordance with the attached specifications regarding storage temperature. If this fan is stored for more than 6 months, SUNON recommends functional testing before using.
- 9. SUNON reserves the right to use components from multiple sources at its discretion. The use of components from other sources will not affect the specifications as described herein.
- 10. The "Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports (L10 and MTTF Report) that relate to this fan are only for reference.

VI. WARRANTY

This fan is warranted against all defects which are proved to be fault in our workmanship and material for one year from the date of our delivery. The sole responsibility under the warranty shall be limited to the repair of the fan or the replacement thereof, at SUNON's sole discretion. SUNON will not be responsible for the failures of its fans due to improper handing, misuse or the failure to follow specifications or instructions for use. In the event of warranty claim, the customer shall immediately notify SUNON for verification. SUNON will not be responsible for any consequential damage to the customer's equipment as a result of any fans proven to be defective.

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Declaration of RoHS

MACHINE INDUSTRY CO., LTD.

Control declaration of environment- related substances/ materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU, SUNON product with models have complied with law and discipline not to employ the forbidden substances, and restrict the allowable concentration of some limited substances deliberately in our components.

No		Substance			С	riteria
1	CFCs & HCFCs (ozone depleti	ng substances)			Forb	oidden
2	Chlorinated Organic Solvent				Forb	oidden
		Plastic (Fram	e, Impeller, wire h	arness, etc.)	<100	ppm
		Solder			<100	0ppm
3	Lead and its compounds	Steel alloy			<350	0ppm
		Aluminium al	loy		<400	0ppm
		Copper alloy			<4wt	t%
		Solder			<20 p	pm
4	Cadmium and its compounds	Parts compose	ed of metals conta	ining zinc	~100	nnm
4	Caumum and its compounds	(e.g. brass, zin	c for die casting)		<100ppm	
		Plastic			<5 pp	om
5	PBBs and PBDEs				Forb	oidden
6	PCB and PCT				Forb	oidden
7	CP, Short-chain Chlorinated p	araffins C10-13	, Cl≥48 wt%		Forb	oidden
8	Mirex				Forb	oidden
9	PCN				Forbidden	
10	Hexavalent Chromium compo	unds			<100	ppm
11	Mercury and its compounds				Forb	oidden
12	Asbestos				Forb	oidden
13	Organic Tin compounds				Forb	oidden
14	Azo compounds				Forb	oidden
15	TBBP-A in external case plasti	c parts of produ	icts (PCB is exem	pted)	<100	0ppm
16	Nickel in external case parts, whi	ch are likely to re	esult in prolonged sl	kin exposure		0ppm
17	Hexabromocyclododecane (HB	SCDD)				0ppm
18	Di-butyl Phthalate (DBP)				<100	0ppm
19	Benzyl butyl Phthalate (BBP)					0ppm
20	Di-ethylhexyl Phthalate (DEHP)					0ppm
21	Di-isobutyl Phthalate (DIBP) <a>					0ppm
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Other Similar products are found below :

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ACi4400H
ACi4400L
3238.500
3241.500
CF4113MBL-000U-AE9
ACi4400HH
ACI4400MLR
CF4113HBT-000U-ABD

AC4300H
ACi4410HH
ACi4420HH
ACI4420ML
W1G200-EF01-01
W1G230-EB97-01
W1G250-BB17-01
W3G250-CD54-01
W3G280

EQ08-44
W3G280-EQ20-43
FMA1-06025WBHW12
FMA1-08038WBHT12
FMA1-09225WBHT12
FMA1-09225WBHW12
FMA1

09238WBHT12
FMA1-09238WBHW12
FMA1-12025WBHT12
FMA1-12038WBHT12
FMA1-12038WBHW12
FMA1-12038WBHW12

FMA1-12038WBJW12-A
FMA1-17251WBHW32
CF4113HBL-000U-AB9
CF4113LBL-000U-AB9
CF4113LBL-000U-ABD
CF4113MBL-000U-AB9

000U-AB9
W1G250-BB21-01
W2G107-AD01-13
W2G107-AD03-13
W1G200-EA95-68
CF4113LBT-000U-A99
CF4113MBL-000U-AA9

CF4113MBT-000U-A99
CF4113LBL-000U-AA9
CF4113MBT-000U-AA9
CF4113MBT-000U-AA9
CF4113MBT-000U-AA9
CF4113MBT-000U-AB9
CF4113HBT-000U-AB9
CF411