

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	EC AXIAL Fan
DIMENSIONS	:	§ 250 X 77.4 mm
MODEL	:	CF2207LBL-000U-HB9
SUNON SPEC. NO.	:	E20000040G-00
CUSTOMER APPROVAL NO.	:	
APPROVED BY CUSTOMER	:	

(AUTHORIZED)

						SPEC.NO	E20000040G-00
	Alice-		Cire day	ndy ddy Approved ACHINE INDU ANZHEN DIST.,		ISSUE DATE	07.21.2016
DRAWN	chang	CHECKED	Cindy Kiddy	APPROVED	Gavinlee	EDITION	0
	07/21		Kluuy			REVISION DATE	
						E.SPEC	EA1600040
建準電	機工業股份	}有限公司	J				
					STRY CO., I	LTD.	
			· •		TEL:886-7-8	135888	
KAOH	SIUNG CI	TY 80673	, TAIWAN (R.	O.C)	FAX:886-7-8	8230505/823060	6/8231010
URL:ht	ttp://www.s	sunon.com	1		E-mail: suno	n@email.sunon	.com.tw

EC AXIAL Fan MODEL : CF2207LBL-000U- HB9

^{業(}段

章

SU2NIOUN03

發行

CHARACTERISTICS

SUNONWEALTH ELECTRIC

MACHINE INDUSTRY CO., LTD.

1. Motor Design	:	Single	Single phase, 4-poles Brushless DC motor.				
2. Insulation Resistance	:	10 Meg	gohms minimum	at 500 VDC.			
3. Dielectric Strength	:	1800 V	AC for one seco	nd.			
4. Motor Protection	:	Therm	al protected				
5. Noise Level	:	Measu	red in a semi-an	echoic chamber			
		with ba	ackground noise	level below 15			
		dB(A).	The fan is runn	ing in free air w	ith the		
		microp	bhone at a distan	ce of one meter			
		from t	ne fan intake.				
6. Tolerance	:	±15%	on rated powe	r and current.			
7. Air Performance	:	Measu	red by a double	chamber. The va	alues		
			orded when the f	fan speed has sta	bilized		
		at rate	d voltage.				
建準電機工業股份有限公司	SPEC	C.NO	E20000040G-00	REVISION DATE			

ISSUE DATE

PAGE

07.21.2016

2 OF 10

EDITION

0

SPECIFICATIONS

MODEL : CF2207LBL-000U- HB9

1-1. Rated Voltage		v SPEED -240 VAC 50/60	High SPEE	ED
C		-240 VAC 50/00 -250 VAC	112	
1-2. Operating Voltage Range			C POWER ON/(JEE)
 1-3. Starting Voltage 1-4. Rated Speed 		RPM ± 10%	1400 RPM <u>-</u>	·
-		.0 CFM	278.8 CFM	<u>+</u> 1070
1-5. Air Delivery				
1-6. Static Pressure		6 Inch-H ₂ O	0.30 Inch-H	1 ₂ U
1-7. Rated Current		38 AMP	0.07 AMP	
1-8. Rated Power) WATTS	6.60 WATT	Ϋ́S
1-9. Noise Level	: 29.9	9 dB(A)	41.2 dB(A)	
1-10. Direction of Rotation	: Cou bla		viewed from fro	ont of fan
1-11. Operating Temperature	: -40	to +50 deg. C		
1-12. Storage Temperature	: -40	to +70 deg. C		
1-13. Bearing System	: Pre	cision ball bear	ing system	
1-14. Weight	: 110	0 g		
1-15. Safety	: UL	/CUR/TUV/CE	Approvals	
1-16. Protection	Not whi prev mot	le the electricity is on, a rented by temporarily t	rt Capability he fan is locked by an e an increase in coil tempe urning off the electrical atically restart when the	erature will be power to the
		olarity Protectio	on	
1-17. IP Class : IP55	tem Test for I dire exec perf PS. diff envi (IP5	perature is 23~24°C and . The fan needs to be to Dust Test and be spraye ctions for Spray Water cuting by regular standa formance is normal or n There are different app erent customers, so plea ronment to measure the	licative environments at use put the product in the e performances. n is focused on motor a	For Dust Water t box for 8 hours vater from all s, which sured the nd systems by e most suitable
建準電機工業股份有限公司	SPEC.NO	E20000040G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟΝ	0

T EU

章

D.C.C. J281608103

發行

SI

建準電機工業股份有限公司	SPEC.NO	E20000040G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟΝ	0
MACHINE INDUSTRY CO., LTD.	PAGE	3 OF 10		

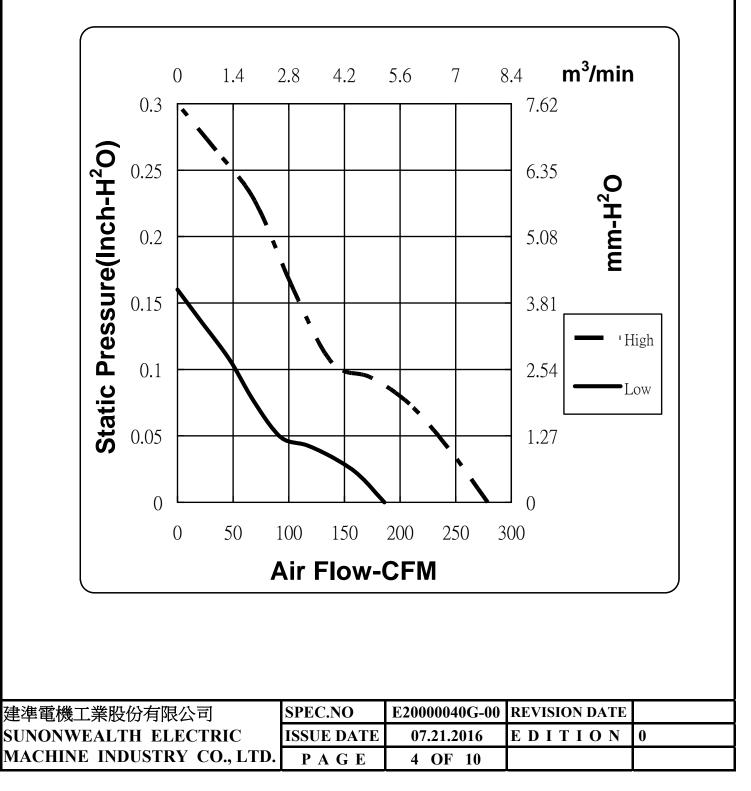
MODEL : CF2207LBL-000U-HB9

D.C.C. ' 2016008103

行

發

PERFORMANCE CURVES

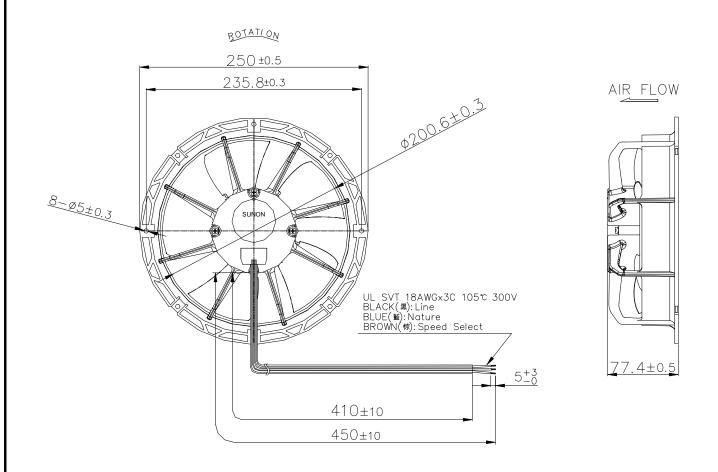


MATERIAL

2. Material

2-1. Frame	:	Thermoplastic PBT of UL 94V-0
2-2. Impeller	:	Thermoplastic PBT of UL 94V-0
2-3. Lead Wire	:	UL SVT 18 AWGx3C,
		BLACK, BLUE, BROWN

DIMENSIONS



- 1. Air Flow Direction: Toward label side.
- 2. When the Black or Blue wire connect to Brown line, the Fan speed will switch to low speed mode.

UNIT : mm

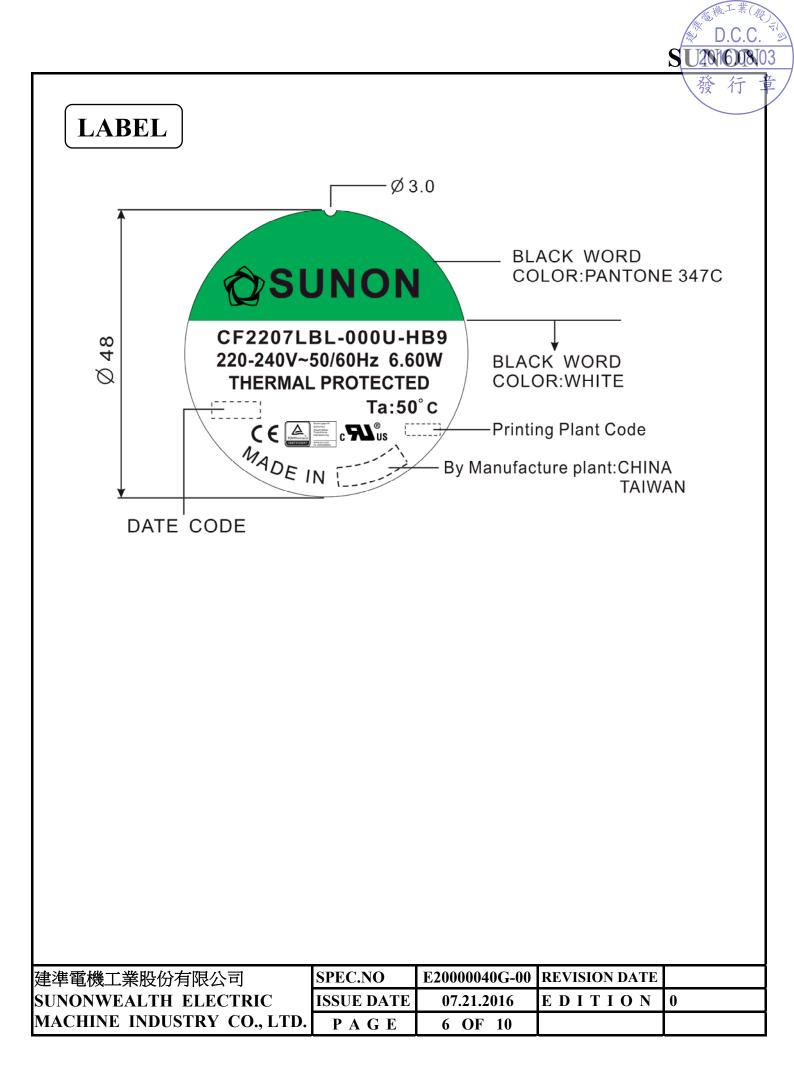
<u>)</u> J**2N1601**8103

行

SI

發

建準電機工業股份有限公司	SPEC.NO	E20000040G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟΝ	0
MACHINE INDUSTRY CO., LTD.	PAGE	5 OF 10		



● **SU2NICODN**03 發行章

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.

建準電機工業股份有限公司	SPEC.NO	E20000040G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟΝ	0
MACHINE INDUSTRY CO., LTD	PAGE	7 OF 10		

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.

建準電機工業股份有限公司	SPEC.NO	E20000040G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟΝ	0
MACHINE INDUSTRY CO., LTD	PAGE	8 OF 10		

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.

建準電機工業股份有限公司	SPEC.NO	E20000040G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟΝ	0
MACHINE INDUSTRY CO., LTD	PAGE	9 OF 10		

Declaration of RoHS

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			C	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				t%
		Solder			<20p	pm
4	Cadmium and its compounds	-	ed of metals conta ic for die casting)	ining zinc	<100	ppm
	Plastic				<5pp	om
5	PBBs and PBDEs				Forb	oidden
6	PCB and PCT				Forb	oidden
7	CP, Short-chain Chlorinated pa	araffins C10-13	, Cl≥48 wt%		Forb	oidden
8	Mirex				Forb	oidden
9	PCN				Forb	oidden
10	Hexavalent Chromium compou	inds			<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, which	ch are likely to re	esult in prolonged sl	kin exposure	<100	0ppm
17	Hexabromocyclododecane (HB	SCDD)			<100	0ppm
18	Di-butyl Phthalate (DBP)					0ppm
19	Benzyl butyl Phthalate (BBP)				<100	0ppm
20	Di-ethylhexyl Phthalate (DEHI	P)				0ppm
21	Di-isobutyl Phthalate (DIBP)				<100	0ppm
些電材	幾工業股份有限公司	SPEC.NO	E20000040G-00	REVISION D	DATE	
NON	WEALTH ELECTRIC	ISSUE DATE	07.21.2016	ΕΟΙΤΙΟ	ΟN	0