

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
MOTOR TYPE	:	MAGLev® Fan & Blower by SUNON
DESCRIPTION	:	MagLev Motor Fan
DIMENSIONS	:	15X15X3 mm
MODEL	:	UF3F3-700B
SUNON SPEC. NO.	:	D01002310F-00
CUSTOMER APPROVAL NO.	:	
APPROVED BY CUSTOMER (AUTHORIZED)	:	

						SPEC.NO	D01002310F-00	
Alice-					ISSUE DATE	12.26.2014		
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	01/11					REVISION DATE	01.11.2018	
						E.SPEC	E30900086	
建準電	機工業股份	}有限公司	J					
SUNO	WEALTH	I ELECT	RIC MACHI	NE INDU	STRY CO.,	LTD.		
-			D., QIANZHE		TEL:886-	7-8135888		
KAOH	KAOHSIUNG CITY 80673, TAIWAN (R.O.C) FAX:886-7-8230505/8230606/8231010							
URL:ht	ttp://www.	sunon.com	1		E-mail: s	unon@email.sunc	on.com.tw	

DC BRUSHLESS FAN MODEL : UF3F3-700B

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CHARACTERISTICS

1. Motor Design	:	Single phase, 6-poles Brushless DC motor					
2. Insulation Resistance	:			een internal stator	and		
		lead wire	(+) measured at I	OC 100V.			
3. Dielectric Strength	:	Applied A	AC 500V for one i	ninute or AC 600V	V for		
		2 seconds	s between housing	and lead wire(+)			
4. Noise Level	:	Measure	d in a semi-anech	oic chamber			
		with bacl	kground noise leve	el below 15			
		dB(A). T	he fan is running	in free air with the	9		
		micropho	one at a distance o	f one meter			
		from the	fan intake.				
5. Input Power, Current & Speed	:	Measure	d after continuous	s 10 minute			
		operation	at rated voltage	in clean air, and			
		at ambie	nt temperature of	25 degrees C.			
6. Tolerance	:	+20% / -	30% on rated pov	ver and current.			
7. Air Performance	:	Measure	d by a double cha	mber. The values			
		are recor	ded when the fan	speed has stabilize	ed		
		at rated v	voltage.				
7#洪豪操大衆肌が大胆のヨ	CDT		D01002210E 00	DEVISION DATE	01 11 2010		
建準電機工業股份有限公司	SPE	EC.NO	D01002310F-00	REVISION DATE	01.11.2018		

建準電機工業股份有限公司	SPEC.NO	D01002310F-00	REVISION DATE	01.11.2018
SUNONWEALTH ELECTRIC	ISSUE DATE	12.26.2014	ΕΟΙΤΙΟΝ	3
MACHINE INDUSTRY CO., LTD.	PAGE	2 OF 10		

SPECIFICATIONS

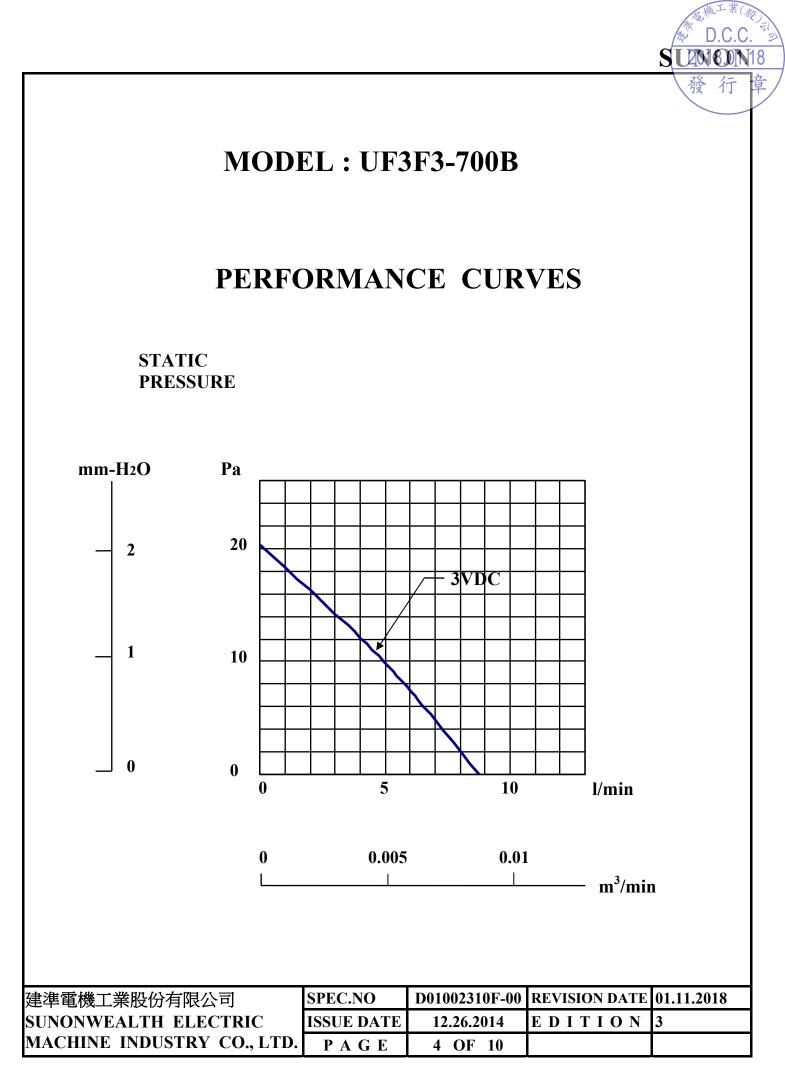
MODEL: UF3F3-700B

1-1. Rated Voltage	: 3 VDC			
1-2. Operating Voltage Range	: 2.0~3.5	VDC		
1-3. Starting Voltage	: 2.0 VDC	C (25 deg. C PO	WER ON/OFF)
1-4. Rated Speed	: 14500 R	2PM ± 30%		
1-5. Air Delivery	: 8.75 l/m	in		
1-6. Static Pressure	: 20.36 Pa	a		
1-7. Rated Current	: 36 mA			
1-8. Rated Power	: 0.1 WA	ТТЅ		
1-9. Noise Level	: 19.3 dB 30.0 dB	(A) @ 1M (A) @ 0.3M		
1-10. Direction of Rotation	: Counter	-clockwise viewe	d from front of f	an blade
1-11. Operating Temperature	: -10 to +	70 deg. C		
1-12. Storage Temperature	: -40 to +	70 deg. C		
1-13. Bearing System	: Vapo be	earing system		
1-14. Weight	: 1.17 g			
1-15. Safety	: CE Apj	provals		
1-16. Protection	Note: In a electricity temporaril automatica	is on, an increase in co y turning off the electr	apability is locked by an extern il temperature will be prical power to the moto cked rotor condition is	prevented by r. The fan will
1-17. IP Class : IP58	temperature The fan ne Test and b After these measured PS. There custo	re is 23~24°C and hum beds to be test and Spra e put in long period im e 2 tests, which executi the performance is normare are different applicativ	e environments and sysproduct in the most su	ust Water Test. hours for Dust pray Water Test. , the fan will be stems by different
建準電機工業股份有限公司	SPEC.NO	D01002310F-00		
SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.	ISSUE DATE P A G E	12.26.2014 3 OF 10	ΕΟΙΤΙΟΝ	3
	IAUE	5 OF 10		

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SUZNEON18

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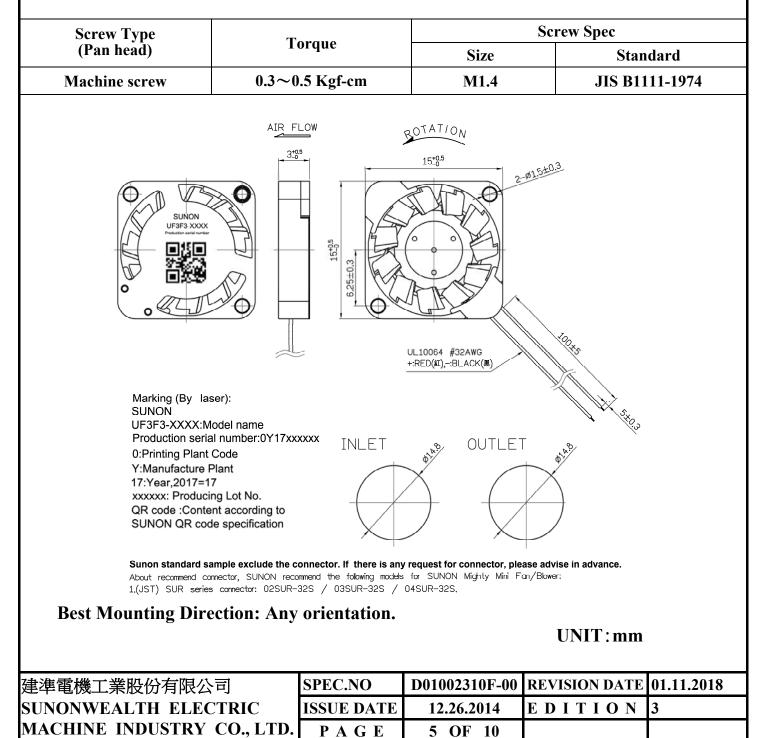


MATERIAL

DIMENSIONS

2-1. Frame	:	Thermoplastic LCP of UL 94V-0
2-2. Impeller	:	Thermoplastic LCP of UL 94V-0
2-3. Lead Wire	:	UL10064,32 awg,+RED,-BLACK

Note: SUNON recommends the screw and torque as below. Please contact SUNON, if any new requirement is requested.



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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 thermo-protector. 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	D01002310F-00	REVISION DATE	01.11.2018
SUNONWEALTH ELECTRIC	ISSUE DATE	12.26.2014	ΕΟΙΤΙΟΝ	3
MACHINE INDUSTRY CO., LTD.	PAGE	6 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	D01002310F-00	REVISION DATE	01.11.2018
SUNONWEALTH ELECTRIC	ISSUE DATE	12.26.2014	ΕΟΙΤΙΟΝ	3
MACHINE INDUSTRY CO., LTD.	PAGE	7 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	D01002310F-00	REVISION DATE	01.11.2018
SUNONWEALTH ELECTRIC	ISSUE DATE	12.26.2014	ΕΟΙΤΙΟΝ	3
MACHINE INDUSTRY CO., LTD.	PAGE	8 OF 10		

Declaration of Restricted Materials

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 and specific market requirements, SUNON Halogen-Free Product 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.

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		\$	Substance			C	riteria
1	CFCs & HCFCs (ozone d	epleting s	ubstances)			Forbid	den
2	Chlorinated Organic Solv	vent				Forbid	lden
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Plastic (	Frame, Impelle	er, wire harness, et	c.)	<100p	om
		Solder		· · · · · · · · · · · · · · · · · · ·		<1000	opm
3	Lead and its compounds	Steel all	oy			<3500	opm
	_	Alumini	ium alloy			<4000	opm
		Copper	alloy			<4wt%	D
		Solder				<20pp	m
4	Cadmium and its	Parts co	mposed of met	als containing zinc		<100p	nm
4	compounds	(e.g. bra	iss, zinc for die	casting)		~100pj	pm
		Plastic				<5ppm	1
5	<b>PBBs and PBDEs</b>					Forbid	den
6	PCB and PCT					Forbid	den
7	CP, Short-chain Chlorina	ted paraf	fins C10-13, Cl	≥48 wt%		Forbid	den
8	Mirex	•				Forbid	den
9	PCN					Forbid	den
10	Hexavalent Chromium co	mpounds	5			<100p	om
11						Forbid	
12	Asbestos					Forbid	den
13						Forbidden	
14	Azo compounds					Forbid	den
15	TBBP-A in external case	plastic pa	rts of products	(PCB is exempted)	)	<1000	opm
16	Nickel in external case par					<1000	
17	Hexabromocyclododecan	· ·	*		<b>I</b>	<1000	•
18	Di-butyl Phthalate (DBP)		/			<1000	
19	Benzyl butyl Phthalate (B					<1000	
20	Di-ethylhexyl Phthalate (l	/				<1000	
21	Di-isobutyl Phthalate (DI	,				<1000	
	Brominated/chlorinated f	/	rdants (other t	han PBBs or PBDI	Es),	Br<90	
22	applicatable item: frame,		· · ·			Cl<900	
	insulator.						-1 <1500ppn
23	DAlls and its 16 someour	da in unu	sual contact m	atorial		BaP <	20ppm
23	PAHs and its 16 compoun	ius m unu	isual contact m	ateriai		Total <	<200ppm
	PCR and algotranlating m	notorial 1	DEAS contont a	omnlianced with			<u>&lt;</u> 1000ppn
24	24 PCB and electroplating material, PFOS content complianced with 2006/122/EC						g material
						PFOS	$\leq 1 \mu g/m^2$
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9 OF 10

PAGE

