SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	DC BRUSHLESS FAN
DIMENSIONS	:	70X70X25 mm
MODEL	:	PMD2407PTB3-A
P/N	:	(2).GN
SUNON SPEC NO.	:	D07006900G-00
APPROVAL NO.	:	
APPROVED BY	:	

(AUTHORIZED)

Rita 07/01CHECKEDKiddy MarchAPPROVEDJackyISSUE DATE04.26.2005JackyEDITION1REVISION DATE07.01.2013建準電機工業股份有限公司SUNONWEALTHELECTRICSUNONWEALTHELECTRICMACHINEINDUSTRYCO., LTD.NO. 30, LN. 296, XINYA RD., QIANZHEN DIST.,KAOHSIUNG CITY80673, TAIWAN (R.O.C)URL:http://www.sunon.com				•			SPEC.NO	D07006900G-00
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URL:http://www.sunon.com E-mail: sunon@email.sunon.com.tw	KAOH	SIUNG CIT	'Y 80673, '	TAIWAN (R.O	.C) I	FAX:886-7-82	230505/8230606/8	231010 美工業()
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DC	BRI	J SHL	ESS FAN		
MOD	EL :	PMD	2407PTB3-A		
P/N	:	(2).G	N		
CHARACTERISTICS					
		DCL			
1. Motor Design	:	DC bru	shless 4 pole motor	r design.	
				• • • • • •	
2. Insulation Resistance	:	More th	an 10M ohm betw	veen internal stato	r and
		lead wir	re(+) measured at 1	DC 500V.	
3. Dielectric Strength	:	Annlied	AC 500V for one	minute or AC 600	V for
5. Dielectric Strength	•				
		2 second	ls between housing	g and lead wire(+)	
4. Noise Level	:	Measur	ed in a semi-anech	oic chamber	
		with ba	ckground noise lev	vel below 15	
		dB (A).	The fan is running	g in free air with th	ie
		microph	none at a distance	of one meter	
		from th	e fan intake.		
5. Input Power, Current & Speed	:	Measur	ed after continuou	is 10 minute	
		operatio	on at rated voltage	in clean air, and	
		at ambi	ent temperature of	f 25 degrees C.	
			Ĩ	8	
6. Tolerance	:	±15% o	n rated power and	l current.	
		_	•		
7. Air Performance	:	Measur	ed by a double cha	amber. The values	
		are reco	orded when the far	n speed has stabiliz	zed
				P w mus stubilit	
		at rated	voltage.		
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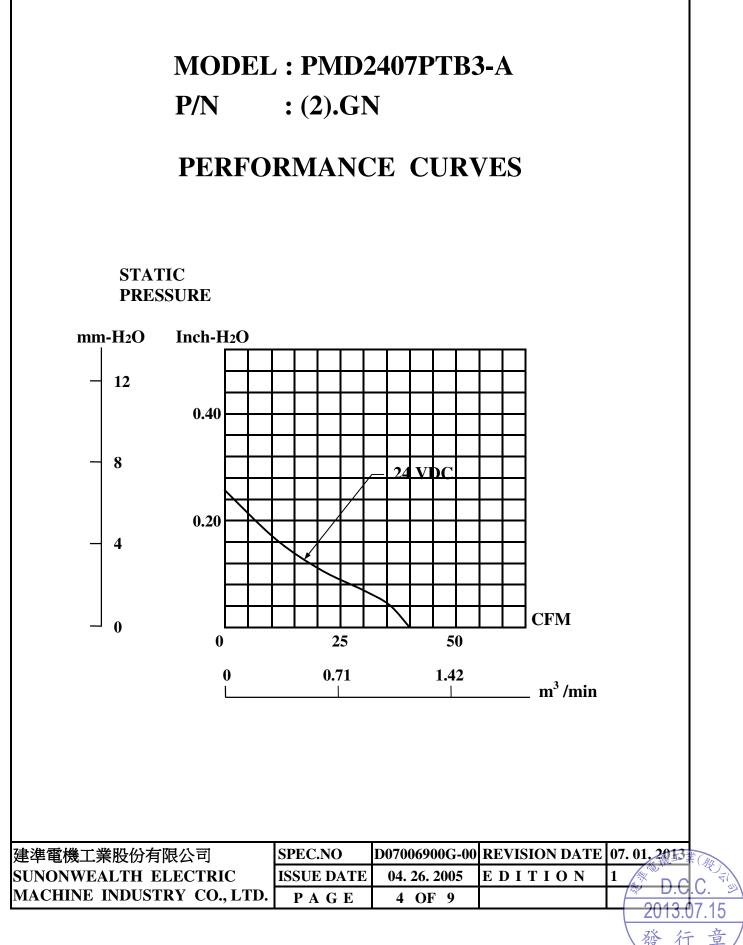
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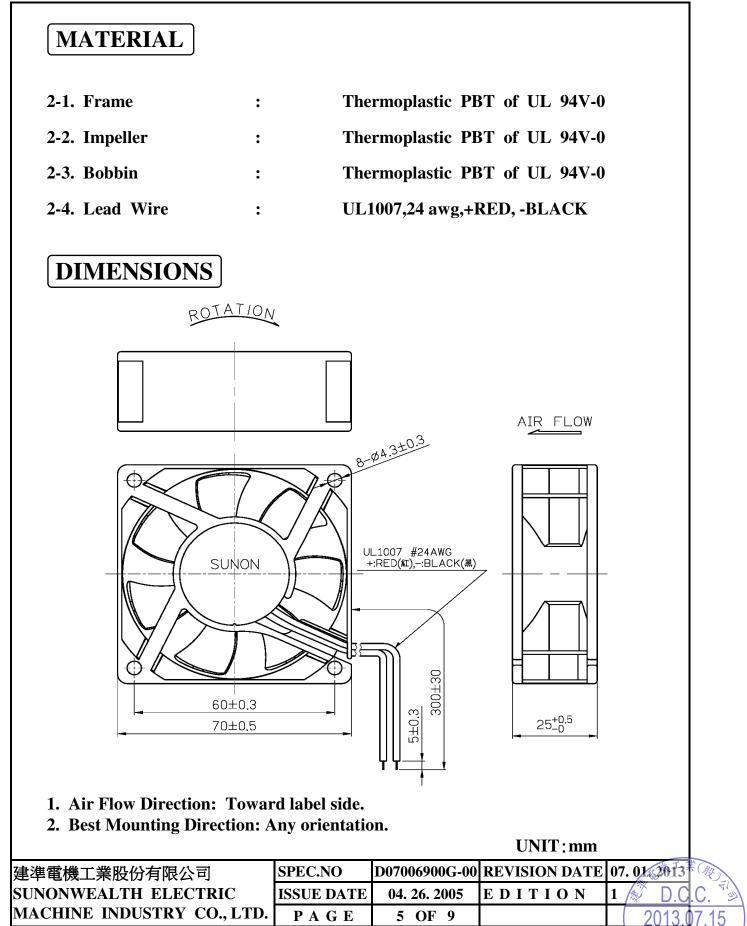
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SPECIFICATIONS

MODEL: PMD2407PTB3-A P/N : (2).GN					
1-1. Rated Voltage	:	24 VD	С		
1-2. Operating Voltage Range	:	10~27.	6 VDC		
1-3. Starting Voltage	:	10 VD	C (25 deg. C PC	OWER ON/OFF	7)
1-4. Rated Speed	:	4200 R	PM ± 15 %		
1-5. Air Delivery	:	40 CF I	М		
1-6. Static Pressure	:	0.25 In	ch-H ₂ O		
1-7. Rated Current	:	0.12 A	MP		
1-8. Rated Power	:	2.9 WA	ATTS		
1-9. Noise Level	:	39 dB (A)		
1-10. Direction of Rotation	:	Counte	er-clockwise viev	wed from front of	f fan blade
1-11. Operating Temperature	:	-10 to -	+70 deg. C		
1-12. Storage Temperature	:	-40 to -	+70 deg. C		
1-13. Bearing System	:	Precisi	on ball bearing	g system	
1-14. Weight	:	90 g			
1-15. Safety	:	UL/CU	JR/TUV/CE A	pprovals	
1-16. Vibration	:	freque 3 direc	tions(X,Y,Z), in	tion 1.5G and is applied in all n cycles of 1 mir ime of 30 minut	
1-17. Locked Rotor Protection	:	Note: In force wh temperation the elect	ture will be preven rical power to the rically restart when	the fan is locked by is on, an increase in ited by temporarily motor. The fan wil the locked rotor co	coil turning off l
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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

II. SPECIFICATION MODIFICATION

- 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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- 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 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	ing substances)			For	bidden
2	Chlorinated Organic Solvent	Forbidden				
		Plastic (Fram	e, Impeller, wire	harness, etc.)	<100ppm	
		Solder			<10	00ppm
3	Lead and its compounds	Steel alloy			<35	00ppm
		Aluminium a	lloy		<400	00ppm
		Copper alloy			<4w	
		<20]	ppm			
4	Cadmium and its compounds	<10	0ppm			
			<5p	pm		
5 PBBs and PBDEs						bidden
6	PCB and PCT	Forbidden				
7	CP, Short-chain Chlorinated p	Forbidden				
8	Mirex	Forbidden				
9	PCN	For	bidden			
10	Hexavalent Chromium compou		<10	0ppm		
11	Mercury and its compounds		bidden			
12	Asbestos	For	bidden			
13	Organic Tin compounds	For	bidden			
14	Azo compounds	For	bidden			
15	TBBP-A in external case plasti		00ppm			
16	Nickel in external case parts, whi		00ppm			
17	Hexabromocyclododecane (HB		00ppm			
18	Di-butyl Phthalate (DBP)	<1000ppm				
19	Benzyl butyl Phthalate (BBP)	<1000ppm				
20	Di-ethylhexyl Phthalate (DEHI	<10	00ppm			
21	21 Di-isobutyl Phthalate (DIBP)					
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