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SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	DC BRUSHLESS FAN
DIMENSIONS	:	38X38X20 mm
MODEL	:	PMD1238PKB1-A
P/N	:	(2).GN
SUNON SPEC. NO.	:	D03012620G-00
APPROVAL NO.	:	
APPROVED BY	:	
(AUTHORIZED)		

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						ISSUE DATE	06.06.2005	
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	DC BR	US	HLF	ESS FAN	
	MODEL	:	PM	D1238PKB1	-A
	P/N	:	(2).	GN	
CHARACTERISTICS					
1. Motor Design	:	D)C bru	shless 4 pole mot	or design.
2. Insulation Resistance	:	N	Aore th	an 10M ohm bet	ween internal stator and
		le	ead wir	re(+) measured at	t DC 500V.
3. Dielectric Strength	:	A	Applied	AC 500V for on	e minute or AC 600V for
		2	second	ls between housi	ng and lead wire(+)
4. Noise Level	:	N	Ieasur	ed in a semi-anec	choic chamber
		W	vith ba	ckground noise le	evel below 15
		d	∣ B(A). [Гhe fan is runnin	ng in free air with the
		n	nicropł	10ne at a distance	e of one meter
		f	rom th	e fan intake.	
5. Input Power, Current & Spe	ed :	N	Ieasur	ed after continuo	ous 10 minute
		0	peratio	on at rated voltag	ge in clean air, and
		a	t ambi	ent temperature	of 25 degrees C.
6. Tolerance	:	±	:15% o	n rated power an	ıd current.
7. Air Performance	:	N	/leasur	ed by a double cł	namber. The values
		a	re reco	rded when the fa	an speed has stabilized
				voltage.	
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建準電機工業股份有限公司		EC.N			REVISION DATE & #
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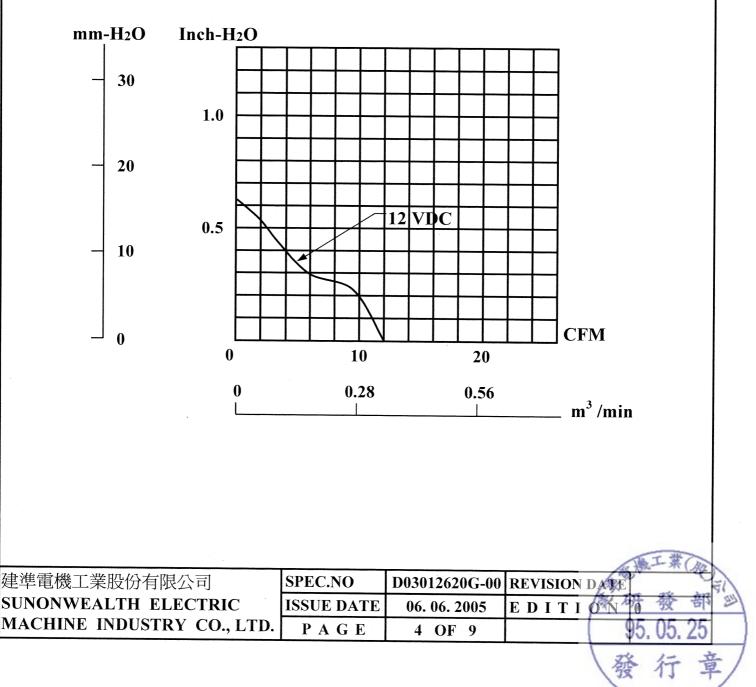
SPECIFICATIONS

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建準電機工業股份有限公司		PEC.NO	D03012620G-00	-				134	-	5 A	(D)
1-17. Locked Rotor Protection	:	Note: In a sit force while the temperature of the electrical	Restart Capa uation where the f he electricity is on will be prevented l power to the moto restart when the	fan , a by or.	is l n in tem Th	ock cre poi e fa	ase rari an v	in co ly tu will	oil Irnir	ng off	
1-16. Vibration	:	frequency 3 direction	of acceleration 5~50~5Hz is a us(X,Y,Z), in cy vibration time	pr ycl	olie es	d i of	n a 1 r	all ninu		each	9
1-15. Safety	:	UL/CUR/7	TUV/CE Appr	: 01	als	5					
1-14. Weight	:	27 g									
1-13. Bearing System	:	Precision	ball bearing sy	st	em						
1-12. Storage Temperature	:	-40 to +70	deg. C								
1-11. Operating Temperature	:	-10 to +70	deg. C								
1-10. Direction of Rotation	:	Counter-c	lockwise viewe	ed	fro	m	fr	onte	of f	an b	lade
1-9. Noise Level	:	44 dB(A)									
1-8. Rated Power	:	3.1 WATT	S								
1-7. Rated Current	:	0.26 AMP	-								
1-6. Static Pressure	:	0.61 Inch-	H ₂ O								
1-5. Air Delivery	:	12 CFM	11,10,10								
1-3. Starting voltage	•	13000 RPI	•		Ū	1979	UI	r)			
1-2. Operating Voltage Kange 1-3. Starting Voltage	:		oc 5 deg. C POWI	סרק		NI //	ΛΙ				
 1-1. Rated Voltage 1-2. Operating Voltage Range 		12 VDC 6~13.8 VD									
P/N : (2).GN											
MODEL: PMD1238PKB1-A	-										

MODEL : PMD1238PKB1-A P/N : (2).GN

PERFORMANCE CURVES

STATIC PRESSURE

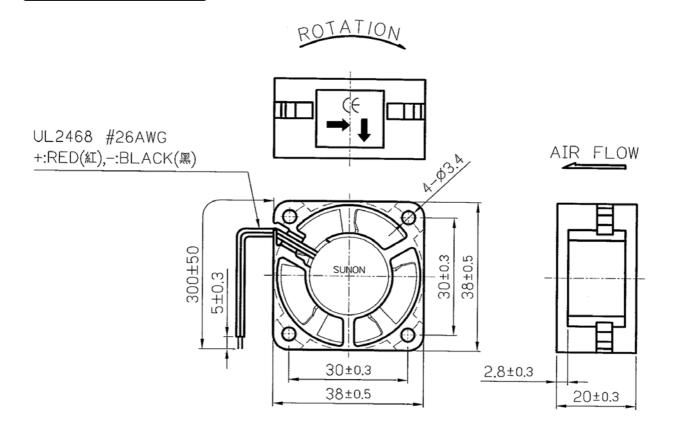


MATERIAL

- 2-1. Frame
- 2-2. Impeller
- 2-3. Bobbin
- 2-4. Lead Wire

Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 UL2468,26 awg,+RED,-BLACK

DIMENSIONS



:

:

:

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1.Air Flow Direction: Toward label side.
 2.Best Mounting Direction: Any orientation.

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UNITS:mm

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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 be 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 specficied 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 specfications 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

Control declaration of environment-related substances/materials

1.In accordance with the Restriction of Hazardous Substances (RoHS) Directive, Sunon product with P/N: GN 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	Criteria		
1	CFCs & HCFCs (ozone depleti	ng substances)	Forbidden		
2	Chlorinated Organic Solvent		Forbidden		
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm		
		substances) Plastic (Frame, Impeller, wire harness, etc.) Solder Steel alloy Aluminium alloy Copper alloy Solder Parts composed of metals containing zinc (e.g. brass, zinc for die casting) Plastic affins C10-13, Cl ≥48 wt% arts of products (PCB is exempted)	<1000ppm		
3	Lead and its compounds	Steel alloy	<3500ppm		
		Aluminium alloy	<4000ppm		
		Copper alloy	<4wt%		
		Solder	<20ppm		
4	Cadmium and its compounds	Parts composed of metals containing zinc (e.g. brass, zinc for die casting)	<100ppm		
		Plastic (Frame, Impeller, wire harness, etc Solder Steel alloy Aluminium alloy Copper alloy Solder Parts composed of metals containing zinc (e.g. brass, zinc for die casting) Plastic	<5ppm		
5					
6	PCB and PCT				
7	CP, Short-chain Chlorinated paraffins C10-13, Cl≥48 wt%				
8	Mirex				
9	PCN		Forbidden		
10	Hexavalent Chromium compou	ins	<100ppm		
11	Mercury and its compounds		Forbidden		
12	Asbestos		Forbidden		
13	Organic Tin compounds		Forbidden		
14	Azo compounds				
15	TBBP-A in external case plastic parts of products (PCB is exempted)				
16	Nickel in external case parts, whic	h are likely to result in prolonged skin exposure	<1000ppm		

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Largest Supplier of Electrical and Electronic Components

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