# **SUNON**

#### SPECIFICATION FOR APPROVAL

CUSTOMER	•	
DESCRIPTION	:	AXIAL AC FAN
DIMENSIONS	:	120X120X25 mm
MODEL	:	DP203AT
P/N	:	2122LBL.GN
SUNON SPEC. NO.	:	A12003490G-00
APPROVAL NO.	:	
<b>APPROVED BY</b>	:	
(AUTHORIZED)		

						SPEC.NO	A12003490G-00
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	00/03		March			<b>REVISION DATE</b>	06. 03. 2013
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	AXIAL AC ODEL : DP		
		2LBL.GN	
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CHARACTERISTICS			
1. Motor Design	: Reliable	e Shaded-Pole Motor Co	nstruction.
2. Insulation Resistance	: 500 Me	gohms minimum at 500 V	VDC.
3. Dielectric Strength	: 1500 V	AC for one second.	
4. Motor Protection	: Impeda	nce protected.	
5. Noise Level	: Measur	ed in a semi-anechoic ch	amber
	with ba	ckground noise level belo	ow 15
	dB(A).	The fan is running in fre	e air with the
	microp	none at a distance of one	meter
	from th	e fan intake.	
6. Tolerance	: ±15% (	on rated power and cu	rrent.
7. Air Performance	: Measur	ed by a double chamber.	The values
	are reco	rded when the fan speed	has stabilized
	at rated	voltage.	
建準電機工業股份有限公司	SPEC.NO	A12003490G-00 REVISION	DATE 06. 03. 2013
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MACHINE INDUSTRY CO., LTD		2 OF 9	A D C C FI
			2013.07.15
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## **SPECIFICATIONS**

#### **MODEL : DP203AT P/N** : 2122LBL.GN

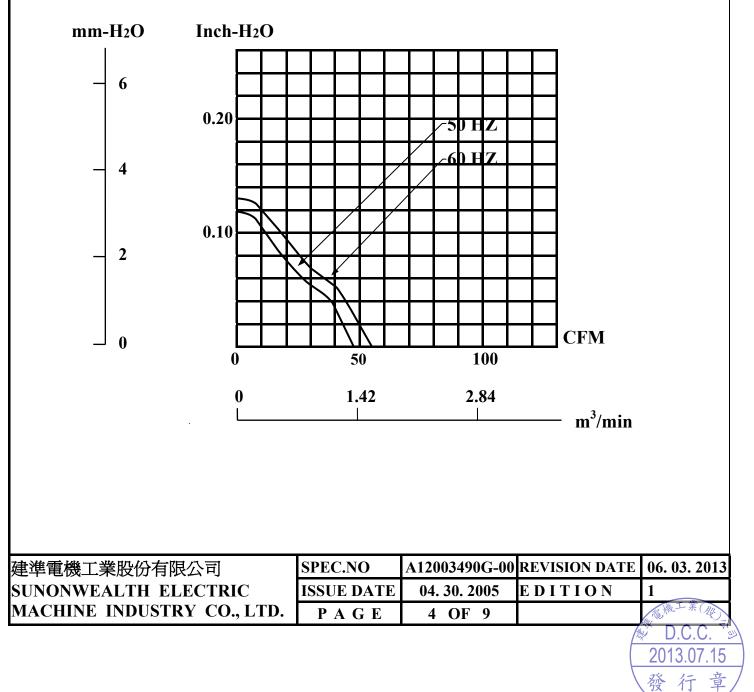
1-1. Rated Voltage	: 220-240 VAC 50/60 Hz					
1-2. Operating Voltage Range	: 185~245 VAC					
1-3. Starting Voltage	: 185 VAC (25 deg. C POWER ON/OFF)					
1-4. Rated Speed	: 1700/1900 RPM <u>+</u> 10%					
1-5. Air Delivery	: 47/54 CFM					
1-6. Static Pressure	: 0.12/0.13 Inch-H2O					
1-7. Rated Current	: 0.07/0.07 AMP					
1-8. Rated Power	: 14/13 WATTS					
1-9. Noise Level	: 37/40 dB(A)					
1-10. Direction of Rotation	: Counter-clockwise viewed from front of fan blade					
1-11. Operating Temperature	: -10 to +70 deg. C					
1-12. Storage Temperature	: -40 to +70 deg. C					
1-13. Bearing System						
	: Precision ball bearing system					
1-14. Weight	: 330 g					
1-15. Safety	: TUV/UL/CUR/CE Approvals					
1-16. Vibration	: Vibration of acceleration 1.5G and					
	frequency 5~50~5Hz is applied in all					
	3 directions(X,Y,Z), in cycles of 1 minute each, for a total vibration time of 30 minutes.					
建準電機工業股份有限公司	SPEC.NO A12003490G-00 REVISION DATE 06. 03. 2013					
SUNONWEALTH ELECTRIC	ISSUE DATE 04.30.2005 E D I T I O N 1					
MACHINE INDUSTRY CO., LTD.	PAGE 3 OF 9 D.C.C.					

### **MODEL : DP203AT**

#### **P/N** : 2122LBL.GN

### **PERFORMANCE CURVES**

STATIC PRESSURE



## MATERIAL

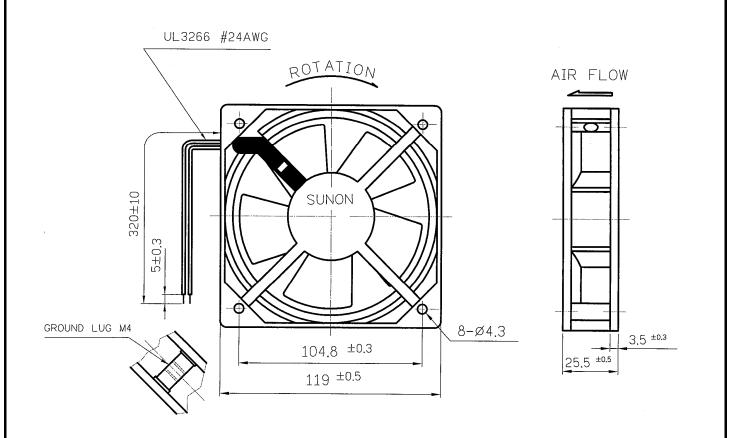
- 2. Material
- 2-1. Frame2-2. Impeller
- 2-3. Lead Wire

## DIE-CAST ALUMINUM

Thermoplastic PBT of UL 94V-0

#### UL3266, 24 awg, GRAY

## DIMENSIONS



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1. Air Flow Direction: Toward label side.

2. Best Mounting Direction: Any orientation.

UNITS:mm

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建準電機工業股份有限公司	SPEC.NO	A12003490G-00	<b>REVISION DATE</b>	06. 03. 2013
SUNONWEALTH ELECTRIC	<b>ISSUE DATE</b>	04. 30. 2005	ΕΟΙΤΙΟΝ	A A A A A A A A A A A A A A A A A A A
MACHINE INDUSTRY CO., LTD.	PAGE	5 OF 9	l 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 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	A12003490G-00	<b>REVISION DATE</b>	06. 03. 2013
SUNONWEALTH ELECTRIC	<b>ISSUE DATE</b>	04. 30. 2005	ΕΟΙΤΙΟΝ	A A A A A A A A A A A A A A A A A A A
MACHINE INDUSTRY CO., LTD.	PAGE	6 OF 9		₩ D.C.C. 🌮

## 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, H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, or Cl<sub>2</sub>.
- 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	A12003490G-00	<b>REVISION DATE</b>	06. 03. 2013
SUNONWEALTH ELECTRIC	<b>ISSUE DATE</b>	04. 30. 2005	ΕΟΙΤΙΟΝ	A A A A A A A A A A A A A A A A A A A
MACHINE INDUSTRY CO., LTD.	PAGE	7 OF 9		

## 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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MACHINE INDUSTRY CO., LTD. PAGE 8 OF 9	D.C.C. 🔊

### **Declaration of RoHS**

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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			С	riteria
1	CFCs & HCFCs (ozone depleti	ng substances)			For	bidden
2	Chlorinated Organic Solvent				For	bidden
		Plastic (Fram	e, Impeller, wire <b>h</b>	narness, etc.)	<10	0ppm
		Solder			<10	00ppm
3	Lead and its compounds	Steel alloy			<35	00ppm
		Aluminium al	lloy		<40	00ppm
		Copper alloy			<4w	/t%
		Solder			<20]	ppm
4	Cadmium and its compounds	Parts compos	ed of metals conta	ining zinc	<100ppm	
4	(e.g. brass, zinc for die casting) Plastic				<b>~10</b>	oppm
			<b>&lt;5</b> p	рт		
5	PBBs and PBDEs					bidden
6	PCB and PCT				For	bidden
7	CP, Short-chain Chlorinated p	araffins C10-13	8, Cl ≥48 wt%		For	bidden
8	Mirex				For	bidden
9	PCN				For	bidden
10						0ppm
11	Mercury and its compounds				For	bidden
12	Asbestos				For	bidden
13	Organic Tin compounds				For	bidden
14	Azo compounds				For	bidden
15	TBBP-A in external case plasti	c parts of prod	ucts (PCB is exem	pted)	<10	00ppm
16	Nickel in external case parts, whi	ch are likely to r	esult in prolonged s	kin exposure	<10	00ppm
17	Hexabromocyclododecane (HB	SCDD)			<10	00ppm
18	Di-butyl Phthalate (DBP)				<10	00ppm
19	Benzyl butyl Phthalate (BBP)				<1000ppm	
20					<1000ppm	
21	Di-isobutyl Phthalate (DIBP)				<10	00ppm
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