

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:
DESCRIPTION	: AXIAL AC FAN
DIMENSIONS	: 120X120X38 mm
MODEL	: DP203A
P/N	: 2123LBL.S.GN
SUNON SPEC. NO.	: A12011200G-C0
CUSTOMER APPROVAL NO.	:
APPROVED BY CUSTOMER	:
(AUTHORIZED)	

						SPEC.NO	A12011200G-C0
	Alice-					ISSUE DATE	06.06.2018
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	12/10					REVISION DATE	12.10.2018
						E.SPEC	E51800155
建準電	機工業股份	有限公司					
SUNO	WEALTH	ELECTF	RIC MACHIN	NE INDUS	ГRY CO., I	LTD.	
No. 30,	Lane 296, S	inya Rd.,	Cianjhen Dis	trict T	EL:886-7-8 1	135888	
KAOH	SIUNG, TA	IWAN, F	R. O. C.	F	AX:886-7-82	230505/8230606	/8231010
URL:ht	ttp://www.su	unon.com		E	-mail: sunor	n@email.sunon.	com.tw

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					SUNION3 旅行音
	XIAL				發行章
	DEL :		203A 3LBL.S.GN		
CHARACTERISTICS	•	212	JLDL.J.GIN		
1. Motor Design	: Re	liable	e Shaded-Pole N	Aotor Construct	tion.
2. Insulation Resistance	: 500	0 Meg	gohms minimur	n at 500 VDC.	
3. Dielectric Strength	: 180	00 VA	AC for one seco	nd.	
4. Motor Protection	: Im	peda	nce protected.		
5. Noise Level	: Me	easur	ed in a semi-an	echoic chamber	
	wit	th ba	ckground noise	level below 15	
	dB	S(A).	The fan is runn	ing in free air w	ith the
	mi	cropł	10ne at a distan	ce of one meter	
	fro	om th	e fan intake.		
6. Tolerance	: ±1:	5% 0	on rated powe	r and current.	
7. Air Performance	: Me	easur	ed by a double	chamber. The v	alues
	are	e reco	rded when the f	fan speed has sta	bilized
	at	rated	voltage.		
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SPECIFICATIONS

MODEL : DP203A P/N : 2123LBL.S.GN

1-2. Operating Voltage Range: 185-240 VAC1-3. Starting Voltage: 185 VAC (25 deg. C POWER ON/OFF)1-4. Rated Speed: 2300/1850 RPM ± 10%1-5. Air Delivery: 78.0/63.0 CFM1-6. Static Pressure: 0.13/0.07 Inch-H2O1-7. Rated Current: 0.048/0.045 AMP1-8. Safety Current: 0.056/0.052 AMP1-9. Rated Power: 8.20/7.60 WATTS1-10. Safety Watts: 10.9/10.5 WATTS1-11. Noise Level: 39.0/35.0 dB(A)1-12. Direction of Rotation: Counter-clockwise viewed from front of fan blad
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1-12. Direction of Rotation : Counter-clockwise viewed from front of fan blad
1-13. Operating Temperature : -10 to +70 deg. C
1-14. Storage Temperature : -40 to +70 deg. C
1-15. Bearing System : Precision ball bearing system
1-16. Weight : 480 g
1-17. Safety : UL/CUR/TUV/CE/CCC Approvals
1-18. Protection : □Automatic Restart Capability Note: In a situation where the fan is locked by an external force whither electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The far will automatically restart when the locked rotor condition is released □Polarity Protection
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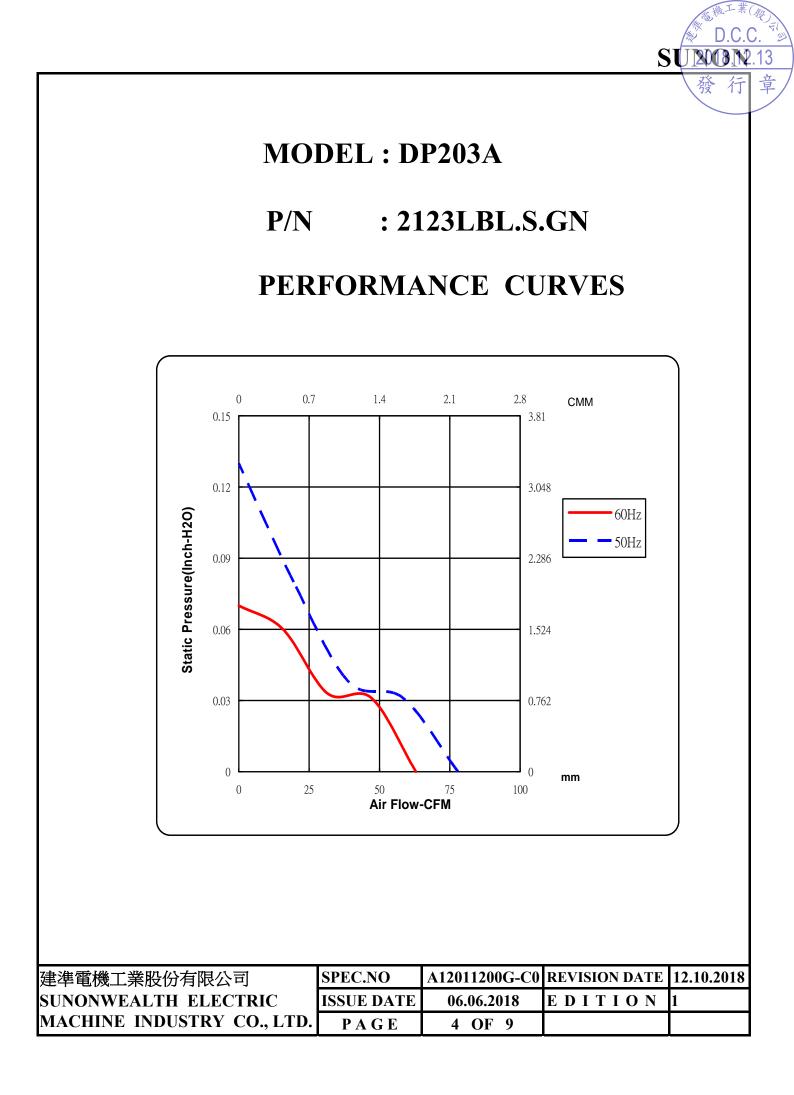
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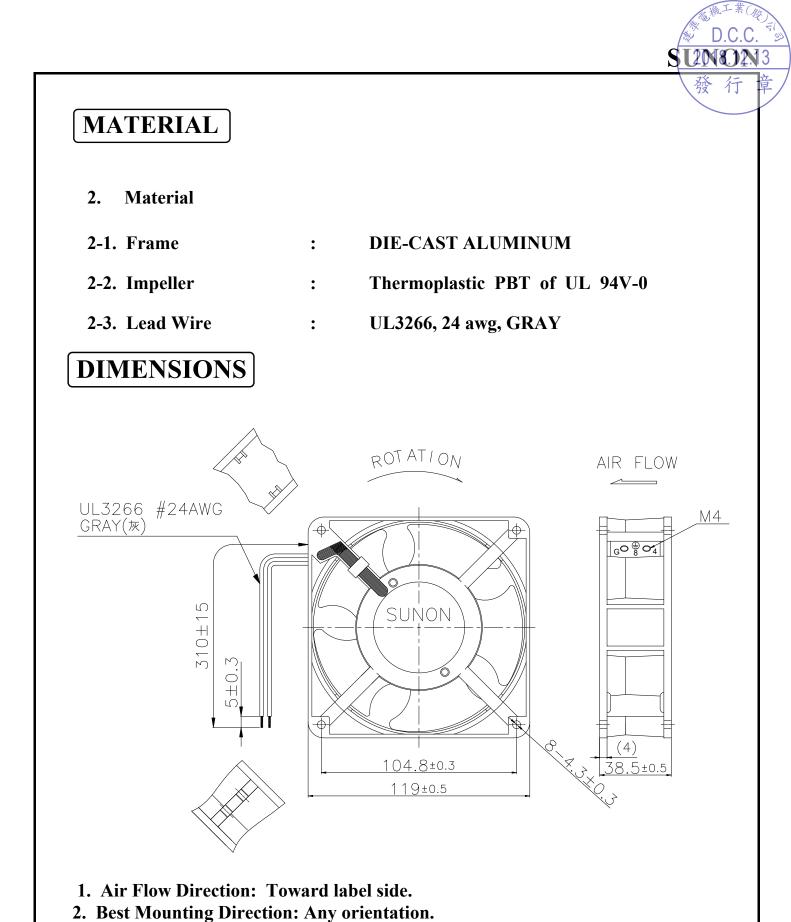
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UNIT:mm

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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 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 lock, 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.

Re: The term can be excluded, if the fan has been with IP design and meets customer's IP requirement.

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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

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	Criteria
1	CFCs & HCFCs (ozone depleti	ng substances)			For	bidden
2	Chlorinated Organic Solvent				For	bidden
		Plastic (Fram	e, Impeller, wire b	narness, etc.)	<10	0ppm
		Solder			<10	00ppm
3	Lead and its compounds	Steel alloy			<35	00ppm
		Aluminium a	lloy		<40	00ppm
		Copper alloy			<4w	vt%
		Solder			<20	ppm
4	Cadmium and its compounds	-	ed of metals conta nc for die casting)	ining zinc	<10	0ppm
		Plastic			<5 p	pm
5	PBBs and PBDEs				For	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	Hexavalent Chromium compou	unds			<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		00ppm
17	Hexabromocyclododecane (HB	SCDD)				00ppm
18	Di-butyl Phthalate (DBP)					00ppm
19	Benzyl butyl Phthalate (BBP)				<10	00ppm
20	Di-ethylhexyl Phthalate (DEHI	?)			<10	00ppm
21	Di-isobutyl Phthalate (DIBP)				<10	00ppm
電相	幾工業股份有限公司	SPEC.NO	A12011200G-C0	REVISION D	ATE	12.10.2
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X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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