

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	AXIAL AC FAN
DIMENSIONS	:	120X120X38 mm
MODEL	:	DP202A
P/N	:	2123MBT.S.GN
SUNON SPEC. NO.	:	A12011190G-00
APPROVAL NO.	:	
APPROVED BY	:	
(AUTHORIZED)		

						SPEC.NO	A12011190G-00
	Alice-			ISSUE DATE	06.06.2018		
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	12/10					REVISION DATE	12.10.2018
						E.SPEC	E51800157
建準電機工業股份有限公司							
SUNON	SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.						
No. 30, 1	Lane 296, Sin	ya Rd., C	ianjhen Dist	rict T	EL:886-7-8	135888	
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Α	XIA	L AC	FAN		發行章
Μ	ODE	L : DF	202A		
P /	'N	: 212	23MBT.S.G	N	
CHARACTERISTICS					
1. Motor Design	:	Reliab	le Shaded-Po	le Motor Const	ruction.
2. Insulation Resistance	:	500Me	gohms minin	num at 500 VD	с.
3. Dielectric Strength	:	1800 V	AC for one s	econd.	
4. Motor Protection	:	Imped	ance protecte	ed.	
5. Noise Level	:	Measu	red in a semi	-anechoic cham	ber
		with b	ackground no	oise level below	15
		dB(A).	The fan is ru	inning in free a	ir with
		microj	ohone at a dis	tance of one me	eter
		from t	he fan intake.		
6. Tolerance	:	±15%	on rated pow	er and current.	
7. Air Performance	:	Measu	red by a doul	ble chamber. T	he values
		are rec	corded when t	the fan speed ha	as stabilized
		at rate	d voltage.		
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SPECIFICATIONS

MODEL: DP202A

P/N	: 2123MBT.S.GN
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1-1. Rated Voltage	: 220-24	0 VAC 50/60 H	Z	
1-2. Operating Voltage Range	: 185-24	0 VAC		
1-3. Starting Voltage	: 185 VA	AC (25 deg. C P	OWER ON/OF	FF)
1-4. Rated Speed	: 2400/1	950 RPM <u>+</u> 10%	/0	
1-5. Air Delivery	: 79.0/68	8.0 CFM		
1-6. Static Pressure	: 0.14/0.	08 Inch-H2O		
1-7. Rated Current	: 0.057/0	0.056 AMP		
1-8. Safety Current	: 0.066/0	0.065 AMP		
1-9. Input Power	: 9.90/9.	60 WATTS		
1-10. Safety Watts	: 13.1/12	.7 WATTS		
1-11. Noise Level	: 42.0/38	8.0 dB(A)		
1-12. Direction of Rotation	: Counte	er-clockwise vie	ewed front fan l	olade
1-13. Operating Temperature	: -10 to -	+70 deg. C		
1-14. Storage Temperature	: -40 to -	+70 deg. C		
1-15. Bearing System	: Precisi	on ball bearing	system	
1-16. Weight	: 480g			
1-17. Safety	0	R/TUV/CE A	pprovals	
1-18. Protection	: Auto Note: While the prevent motor.	matic Restart (In a situation where the electricity is on, and ted by temporarily ture		rature will be power to the
	□Polaı	ity Protection		
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MODEL : DP202A

P/N : 2123MBT.S.GN

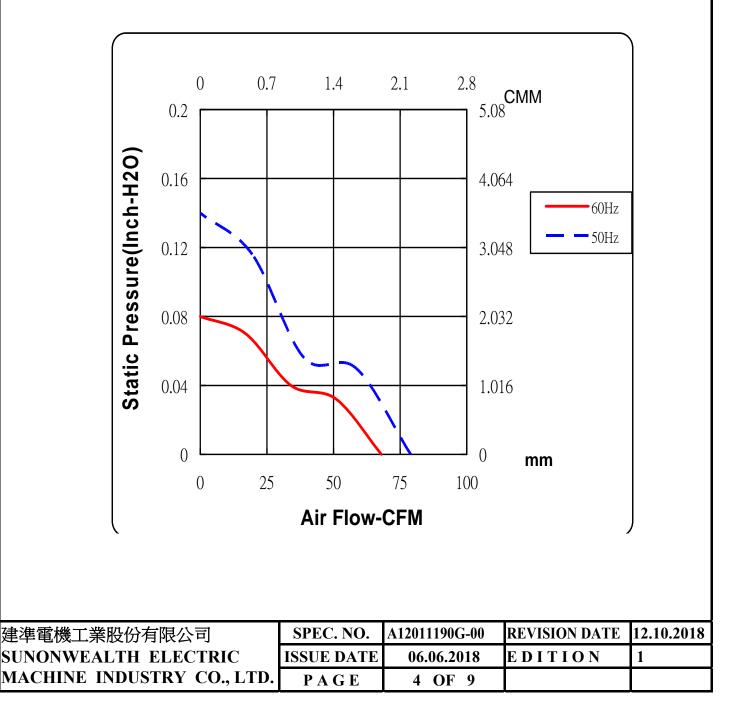
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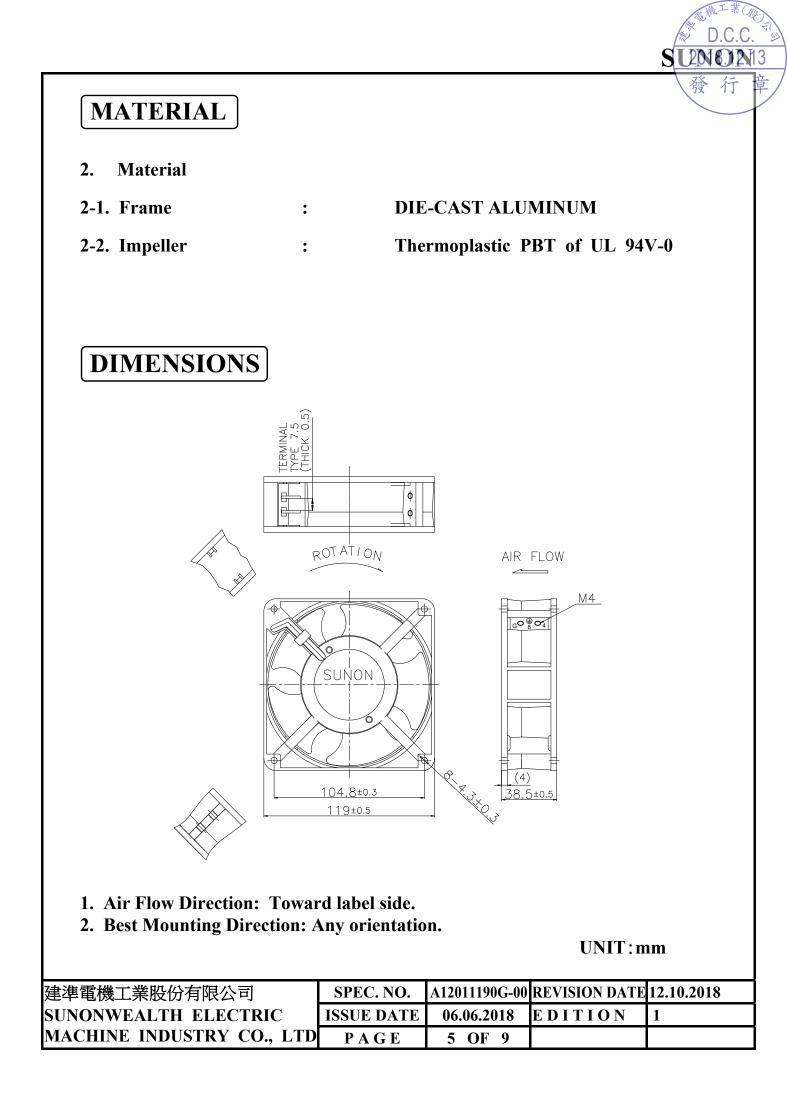
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PERFORMANCE CURVES





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 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

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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			C	Criteria
1	CFCs & HCFCs (ozone depleti	ing substances)			For	bidden
2	Chlorinated Organic Solvent				For	bidden
		Plastic (Fram	e, Impeller, wire	harness, etc.)	<10	0ppm
		Solder			<10	00ppm
3	Lead and its compounds	Steel alloy			<35	00ppm
		Aluminium al	loy		<40	00ppm
		Copper alloy			<4w	vt%
		Solder			<20	ррт
4	Cadmium and its compounds	-	ed of metals conta ic for die casting)	0	<10	0ppm
		Plastic			< 5p	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 compo	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 produ	ucts (PCB is exem	pted)	<10	00ppm
16	Nickel in external case parts, whi	ch are likely to re	esult in prolonged s	skin exposure	<10	00ppm
17	Hexabromocyclododecane (HE	BCDD)			<10	00ppm
18	Di-butyl Phthalate (DBP)				<10	00ppm
19	Benzyl butyl Phthalate (BBP)				<10	00ppm
20	Di-ethylhexyl Phthalate (DEHl	P)			<10	00ppm
21	Di-isobutyl Phthalate (DIBP)				<10	00ppm
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