#### SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	AXIAL AC FAN
DIMENSIONS	:	Ø171X51 mm
MODEL	:	A2175-HBT
P/N	:	TC.R.GN
SUNON SPEC. NO.	•	A17000610G-00
CUSTOMER APPROVAL NO.	:	
APPROVED BY CUSTOMER	:	

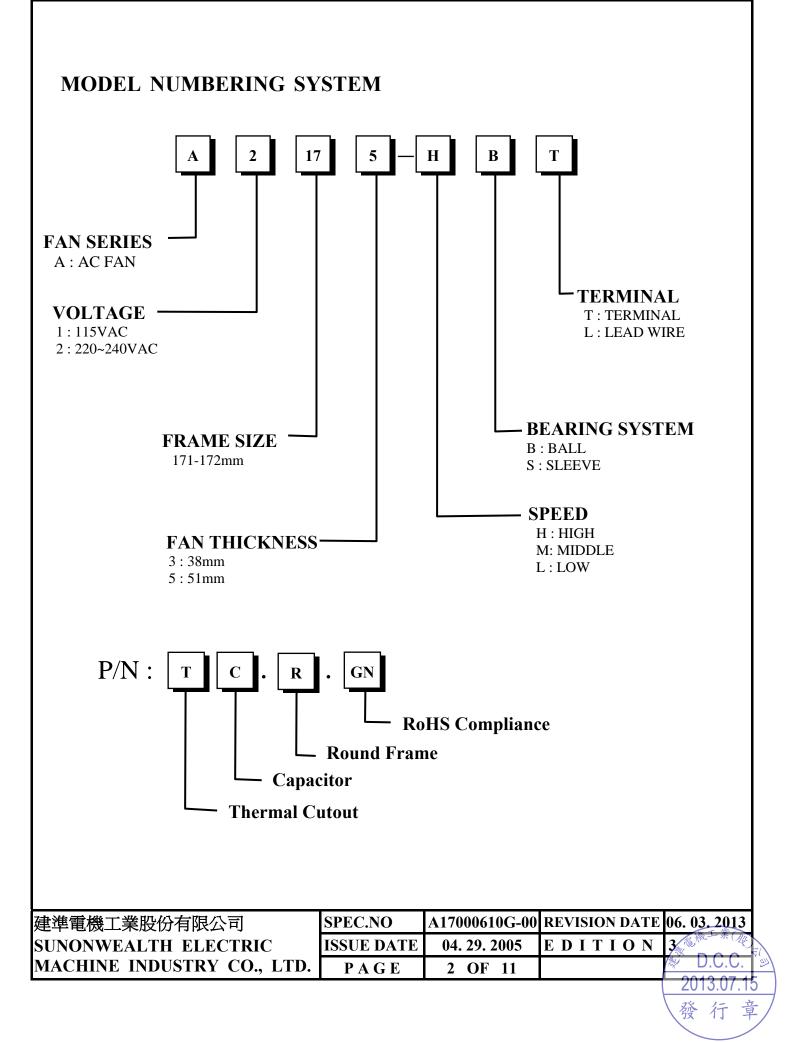
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建準電	機工業股份	有限公司					
SUNO	NWEALTH	ELECTE	RIC MACHI	NE INDUS	ГRY CO.,	LTD.	
NO. 30	, LN. 296, X	INYA RD	., QIANZHEI	N DIST.,	TEL:886-7	7-8135888	
КАОН	SIUNG CIT	Y 80673, '	TAIWAN (R.	<b>O.C</b> )	FAX:886-′	7-8230505/823060	)6/8231010 x # (#R
URL:h	ttp://www.si	unon.com		]	E-mail: su	non@email.sunoi	n.com,tw D C C
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AXIAL AC FAN MODEL : A2175-HBT P/N : TC.R.GN         CHARACTERISTICS         1. Motor Design : Reliable Alveolate Motor Construction.         2. Insulation Resistance : 500 Megohms minimum at 500 VDC.         3. Dielectric Strength : 1800 VAC for one second.         4. Motor Protection : Thermal protected.         5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.         6. Tolerance : ±15% on rated power and current.         7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.         #準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.       SPEC.NO       A17000610G-00       REVISION DATE 06, 03, 2403         SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.       SPEC.NO       A17000610G-00       REVISION DATE 06, 03, 2403						SUNUN
CHARACTERISTICS         1. Motor Design       : Reliable Alveolate Motor Construction.         2. Insulation Resistance       : 500 Megohms minimum at 500 VDC.         3. Dielectric Strength       : 1800 VAC for one second.         4. Motor Protection       : Thermal protected.         5. Noise Level       : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.         6. Tolerance       : ±15% on rated power and current.         7. Air Performance       : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.         建準電機工業股份有限公司 SUNONWEALTH ELECTRIC       SPEC.NO       A17000610G-00       REVISION DATE 06, 03, 2013						
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3. Dielectric Strength       : 1800 VAC for one second.         4. Motor Protection       : Thermal protected.         5. Noise Level       : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.         6. Tolerance       : ±15% on rated power and current.         7. Air Performance       : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.         建準電機工業股份有限公司 SUNONWEALTH ELECTRIC       SPEC.NO       A17000610G-00       REVISION DATE 06, 03, 2013	1. Motor Design	:	Reliable	e Alveolate Mot	or Construct	ion.
*         4. Motor Protection       : Thermal protected.         5. Noise Level       : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.         6. Tolerance       : ±15% on rated power and current.         7. Air Performance       : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.         建準電機工業股份有限公司 SUNONWEALTH ELECTRIC       : SPEC.NO       A17000610G-00       REVISION DATE 06, 03, 2013 REVISION DATE 04, 29, 2005	2. Insulation Resistance	:	500 Meg	gohms minimui	m at 500 VDC	С.
<ul> <li>5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.</li> <li>6. Tolerance : ±15% on rated power and current.</li> <li>7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.</li> <li>建準電機工業股份有限公司 SUNONWEALTH ELECTRIC SPEC.NO AI7000610G-00 REVISION DATE 06. 03, 2013 ISSUE DATE 04. 29. 2005 E D I T I O N 3</li> </ul>	3. Dielectric Strength	:	1800 VA	AC for one seco	nd.	
with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake. 6. Tolerance : ±15% on rated power and current. 7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage. 建準電機工業股份有限公司 SUNONWEALTH ELECTRIC SPEC.NO A17000610G-00 REVISION DATE 06. 03, 2013 ISSUE DATE 04. 29. 2005 E D I T I O N 3	4. Motor Protection	:	Therma	l protected.		
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microphone at a distance of one meter         from the fan intake.         6. Tolerance       : ±15% on rated power and current.         7. Air Performance       : Measured by a double chamber. The values         are recorded when the fan speed has stabilized         at rated voltage.         建準電機工業股份有限公司         SUNONWEALTH ELECTRIC			with ba	ckground noise	level below 1	15
from the fan intake.         6. Tolerance       : ±15% on rated power and current.         7. Air Performance       : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.         建準電機工業股份有限公司       SPEC.NO       A17000610G-00       REVISION DATE 06. 03 2013         SUNONWEALTH ELECTRIC       ISSUE DATE       04. 29. 2005       E D I T I O N 2			<b>dB(A).</b>	The fan is runn	ing in free ai	r with the
6. Tolerance       : ±15% on rated power and current.         7. Air Performance       : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.         建準電機工業股份有限公司 SUNONWEALTH ELECTRIC       SPEC.NO       A17000610G-00       REVISION DATE 06. 03, 2013			micropl	ione at a distan	ce of one me	ter
7. Air Performance       : Measured by a double chamber. The values         are recorded when the fan speed has stabilized         at rated voltage.         建準電機工業股份有限公司       SPEC.NO       A17000610G-00       REVISION DATE       06. 03. 2013         SUNONWEALTH ELECTRIC       ISSUE DATE       04. 29. 2005       E D I T I O N       3			from th	e fan intake.		
are recorded when the fan speed has stabilized at rated voltage. 建準電機工業股份有限公司 SPEC.NO A17000610G-00 REVISION DATE 06. 03, 2013 SUNONWEALTH ELECTRIC ISSUE DATE 04. 29. 2005 E D I T I O N 3	6. Tolerance	:	±15% 0	n rated powe	r and curre	nt.
at rated voltage. 建準電機工業股份有限公司 SPEC.NO A17000610G-00 REVISION DATE 06. 03-2013 SUNONWEALTH ELECTRIC ISSUE DATE 04. 29. 2005 E D I T I O N 2000000	7. Air Performance	:	Measur	ed by a double	chamber. Th	e values
建準電機工業股份有限公司 SUNONWEALTH ELECTRIC ISSUE DATE 04. 29. 2005 E D I T I O N ADD C C			are reco	rded when the f	fan speed has	stabilized
SUNONWEALTH ELECTRIC ISSUE DATE 04. 29. 2005 E D I T I O N			at rated	voltage.		
SUNONWEALTH ELECTRIC ISSUE DATE 04. 29. 2005 E D I T I O N	建準電機工業股份有限公司	SPE	C.NO	A17000610G-00	REVISION DA	TE 06. 03, 2013
MACHINE INDUSTRY CO., LTD. PAGE 3 OF 11 2013.07.15	SUNONWEALTH ELECTRIC			04. 29. 2005	ΕΟΙΤΙΟ	N 3 D C C F
	MACHINE INDUSTRY CO.,	LTD. P	AGE	3 OF 11		2013.07.15

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#### **SPECIFICATIONS**

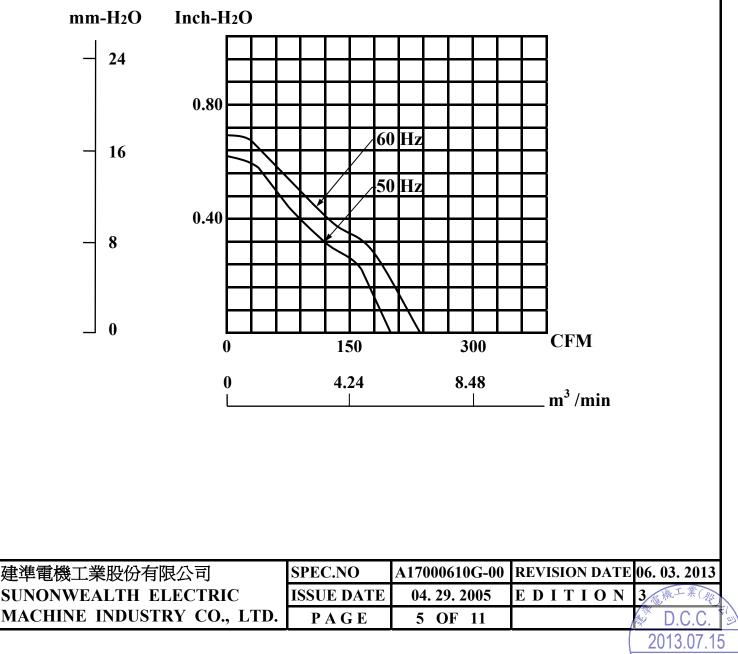
#### MODEL : A2175-HBT P/N : TC.R.GN

	1-1. Rated Voltage	:	220-240 V	AC 50/60 Hz		
1-4. Rated Speed       : 2800/3200 RPM ± 10%         1-5. Air Delivery       : 203/239 CFM         1-6. Static Pressure       : 0.62/0.69 Inch-H2O         1-7. Rated Current       : 0.11/0.11 AMP         1-8. Rated Power       : 25/26 WATTS         1-9. Noise Level       : 51/58 dB(A)         1-10. Direction of Rotation       : Clockwise viewed from front of fan blade         1-11. Operating Temperature       : -10 to +70 deg. C         1-13. Bearing System       : Precision ball bearing system         1-14. Weight       : 908 g         1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE [06.03.2013	1-2. Operating Voltage Range	:	150~250 V	VAC		
1-5. Air Delivery       : 203/239 CFM         1-6. Static Pressure       : 0.62/0.69 Inch-H2O         1-7. Rated Current       : 0.11/0.11 AMP         1-8. Rated Power       : 25/26 WATTS         1-9. Noise Level       : 51/58 dB(A)         1-10. Direction of Rotation       : 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       : 908 g         1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE [06.03.2013	1-3. Starting Voltage	:	150 VAC	(25 deg. C POV	VER ON/OFF)	
1-6. Static Pressure: 0.62/0.69 Inch-H2O1-7. Rated Current: 0.11/0.11 AMP1-8. Rated Power: 25/26 WATTS1-9. Noise Level: 51/58 dB(A)1-10. Direction of Rotation: Clockwise viewed from front of fan blade1-11. Operating Temperature: -10 to +70 deg. C1-12. Storage Temperature: -40 to +70 deg. C1-13. Bearing System: Precision ball bearing system1-14. Weight: 908 g1-15. Safety: UL/CUR/CE/TUV Approvals1-16. 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.NOA17000610G-00REVISION DATE 106.03.2013	1-4. Rated Speed	:	2800/3200	) RPM <u>+</u> 10%		
1-7. Rated Current: 0.11/0.11 AMP1-8. Rated Power: 25/26 WATTS1-9. Noise Level: 51/58 dB(A)1-10. Direction of Rotation: Clockwise viewed from front of fan blade1-11. Operating Temperature: -10 to +70 deg. C1-12. Storage Temperature: -40 to +70 deg. C1-13. Bearing System: Precision ball bearing system1-14. Weight: 908 g1-15. Safety: UL/CUR/CE/TUV Approvals1-16. 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	1-5. Air Delivery	:	203/239 C	CFM		
1-8. Rated Power: 25/26 WATTS1-9. Noise Level: 51/58 dB(A)1-10. Direction of Rotation: Clockwise viewed from front of fan blade1-11. Operating Temperature: -10 to +70 deg. C1-12. Storage Temperature: -40 to +70 deg. C1-13. Bearing System: Precision ball bearing system1-14. Weight: 908 g1-15. Safety: UL/CUR/CE/TUV Approvals1-16. 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.NOA17000610G-00REVISION DATE [06.03.2013]	1-6. Static Pressure	:	0.62/0.69	Inch-H2O		
1-9. Noise Level: 51/58 dB(A)1-10. Direction of Rotation: Clockwise viewed from front of fan blade1-11. Operating Temperature: -10 to +70 deg. C1-12. Storage Temperature: -40 to +70 deg. C1-13. Bearing System: Precision ball bearing system1-14. Weight: 908 g1-15. Safety: UL/CUR/CE/TUV Approvals1-16. 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	1-7. Rated Current	:	0.11/0.11	AMP		
1-10. Direction of Rotation       : 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       : 908 g         1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE 06. 03. 2013	1-8. Rated Power	:	25/26 WA	ATTS		
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       : 908 g         1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE 06. 03. 2013	1-9. Noise Level	:	51/58 dB(	<b>A)</b>		
1-12. Storage Temperature       : -40 to +70 deg. C         1-13. Bearing System       : Precision ball bearing system         1-14. Weight       : 908 g         1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE 06. 03. 2013	1-10. Direction of Rotation	:	Clockwise	viewed from fro	ont of fan blade	
1-13. Bearing System       : Precision ball bearing system         1-14. Weight       : 908 g         1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE 06. 03. 2013	1-11. Operating Temperature	:	-10 to +70	deg. C		
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1-15. Safety       : UL/CUR/CE/TUV 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       A17000610G-00       REVISION DATE 06. 03. 2013	1-13. Bearing System	:	Precision	ball bearing sy	stem	
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       A17000610G-00       REVISION DATE       06. 03. 2013	1-14. Weight	:	908 g			
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 A17000610G-00 REVISION DATE 06. 03. 2013	1-15. Safety	:	UL/CUR/	CE/TUV Appro	ovals	
	1-16. Vibration	:	frequency 3 directio	v 5~50~5Hz is a ns(X,Y,Z), in cy	pplied in all cles of 1 minute	e each,
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MACHINE INDUSTRY CO., LTD. PAGE 4 OF 11 DI 10 N D.C.C.	SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.		SUE DATE PAGE	04. 29. 2005 4 OF 11	EDITION	3 3 <sup>● 工業</sup> ④ ● D.C.C.

# MODEL : A2175-HBT P/N : TC.R.GN

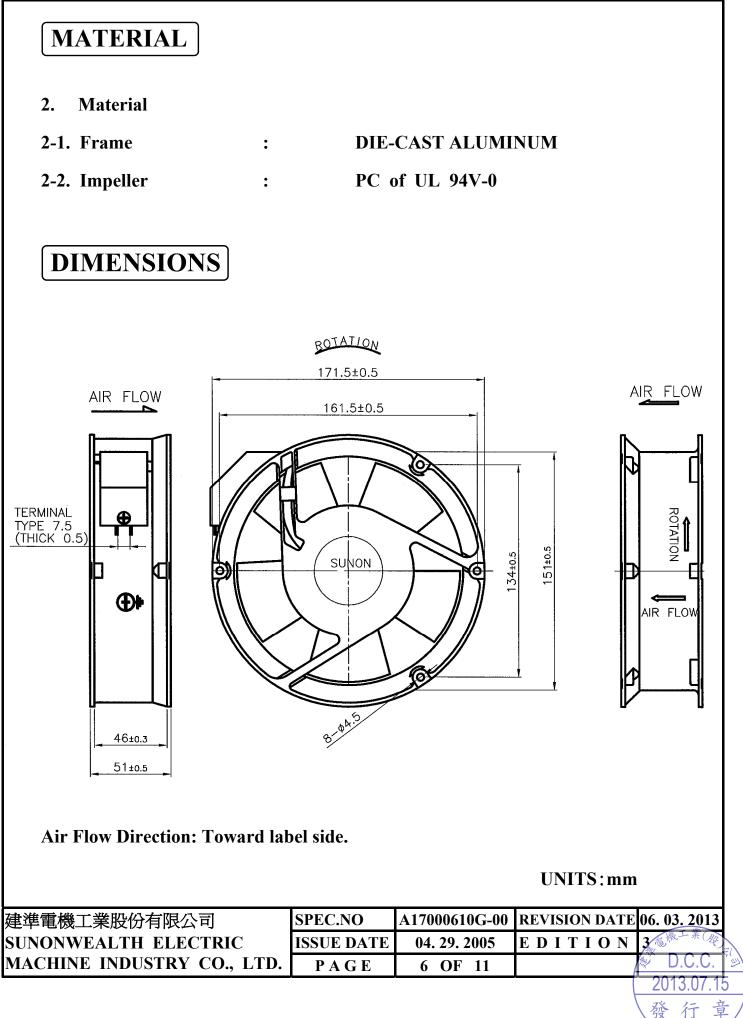
# **PERFORMANCE CURVES**

STATIC PRESSURE



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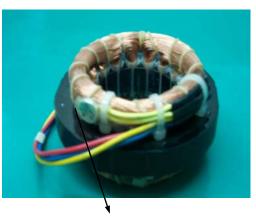


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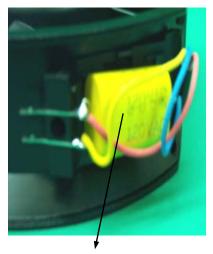
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#### Alveolate Motor



Thermal Cutout

#### With Capacitor



Capacitor

建準電機工業股份有限公司	SPEC.NO	A17000610G-00	<b>REVISION DATE</b>	06. 03 <u>. 2013</u>
SUNONWEALTH ELECTRIC	<b>ISSUE DATE</b>	04. 29. 2005	ΕΟΙΤΙΟΝ	
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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 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, 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	A17000610G-00	<b>REVISION DATE</b>	06.03 <u>,20</u> 13
SUNONWEALTH ELECTRIC	<b>ISSUE DATE</b>	04. 29. 2005	ΕΟΙΤΙΟΝ	
MACHINE INDUSTRY CO., LTD.	PAGE	9 OF 11		2013 07 15

# 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 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	Criteria			
1	CFCs & HCFCs (ozone depleti	ng substances)	Forbidden			
2	Chlorinated Organic Solvent					
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm			
3		Solder	<1000ppm			
	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	<100ppm			
4	Caumum and its compounds	(e.g. brass, zinc for die casting)	-100ppm			
		Plastic	<5ppm			
5	PBBs and PBDEs					
6	PCB and PCT					
7	CP, Short-chain Chlorinated p	araffins C10-13, Cl≥48 wt%	Forbidden			
8	Mirex		Forbidden			
9	PCN		Forbidden			
10	Hexavalent Chromium compounds					
11	Mercury and its compounds					
12	Asbestos					
13	Organic Tin compounds					
14	Azo compounds					
15	TBBP-A in external case plastic parts of products (PCB is exempted)					
16	Nickel in external case parts, which are likely to result in prolonged skin exposure					
17	Hexabromocyclododecane (HBCDD)					
18	Di-butyl Phthalate (DBP)					
19						
20	Di-ethylhexyl Phthalate (DEHP)					
21	Di-isobutyl Phthalate (DIBP)					

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