SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER :

DESCRIPTION : AXIAL AC FAN

DIMENSIONS : 176X176X89 mm

MODEL: A1179-HBL

P/N : TC.GN

SUNON SPEC. NO. : A17000820G-00

CUSTOMER

APPROVAL NO.

APPROVED BY

CUSTOMER

(AUTHORIZED)

						SPEC.NO	A17000820G-00
	Johnson Kiddy		ISSUE DATE	05.30.2005			
DRAWN J	Johnson 09/15	CHECKED	Kiddy Keko	APPROVED	•	EDITION	2
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建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

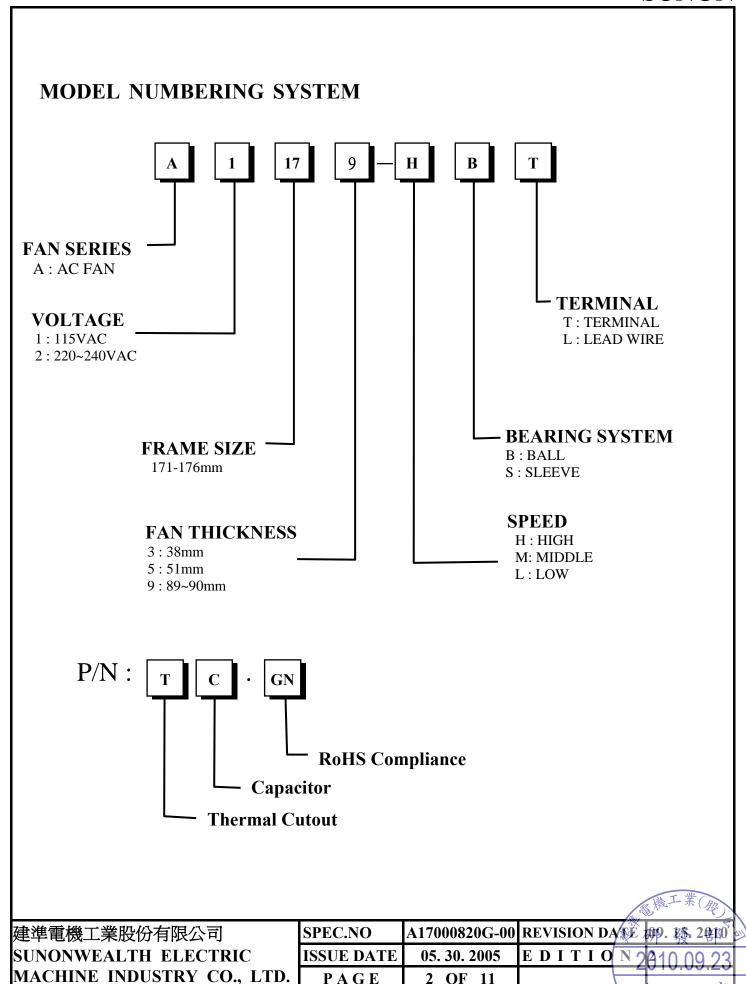
NO. 30, LN. 296, XINYA RD., QIANZHEN DIST., TEL:886-7-8135888

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2010.09.23

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AXIAL AC FAN MODEL : A1179-HBL

P/N : TC.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.

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建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DA	7000 49. 紧	. 2910
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITIO	V 2810	00 23
MACHINE INDUSTRY CO., LTD.	P A G E	3 OF 11		2010.	30.ZU

SPECIFICATIONS

MODEL: A1179-HBL

P/N: TC.GN

1-1. Rated Voltage : 115 VAC 50/60 Hz

1-2. Operating Voltage Range : 75~125 VAC

1-3. Starting Voltage : 75 VAC (25 deg. C POWER ON/OFF)

1-4. Rated Speed : $2800/3250 \text{ RPM} \pm 10\%$

1-5. Air Delivery : 315/335 CFM

1-6. Static Pressure : 0.65/0.80 Inch-H₂O

1-7. Rated Current : 0.25/0.27 AMP

1-8. Rated Power : 24/30 WATTS

1-9. Noise Level : 62/66 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 : 1960 g

1-15. Safety : UL/CUR/TUV/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	A17000820G-00	REVISION DA	TEX C	09. 15. 2010;
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITIO		计 贺 部
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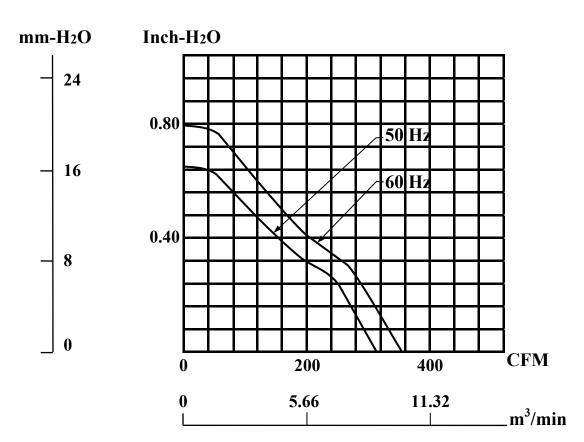
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MODEL: A1179-HBL

P/N: TC

PERFORMANCE CURVES

STATIC PRESSURE



建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DA	TE	09.1	5美20	0
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITIO	XX	2	邓 立	R S
MACHINE INDUSTRY CO., LTD	PAGE	5 OF 11			040	7000	22
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MATERIAL

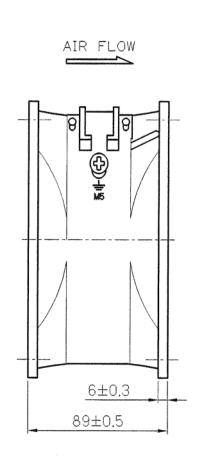
2. Material

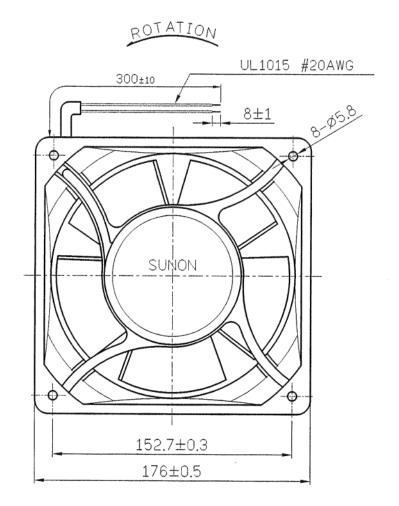
2-1. Frame : DIE-CAST ALUMINUM

2-2. Impeller : PC of UL 94V-0

2-3. Lead Wire : UL1015, 20 awg

DIMENSIONS



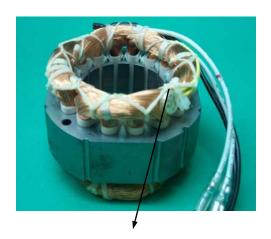


Air Flow Direction: Toward label side.

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建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DA		研. 1發20部
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MACHINE INDUSTRY CO., LTD.	PAGE	6 OF 11		Ţ	终 行 音

Alveolate Motor



Thermal Cutout

With Capacitor



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建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DA	7 09. 15. 2010
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITIO	N 2610 00 22
MACHINE INDUSTRY CO., LTD.	PAGE	7 OF 11		2010.09.23

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 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.

建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DATE	99. 15. 2010 T
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITION	2010 00 23
MACHINE INDUSTRY CO., LTD.	P A G E	8 OF 11		2010.03.23

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 specificied 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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建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DATE	09. 15×2010 ¬
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITION	3010 00 23
MACHINE INDUSTRY CO., LTD.	PAGE	9 OF 11	+	2010.03.23

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 specifications 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.

建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DA	ΓE	09. 15. 2010
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITIO		分 發 部 2
MACHINE INDUSTRY CO., LTD.	P A G E	10 OF 11		2	010.09.23

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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 depleting	ng substances)	Forbidden
2	Chlorinated Organic Solvent		
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
		Solder	<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	<5ppm
5	PBBs and PBDEs		Forbidden
6	PCB and PCT		Forbidden
7	CP, Short-chain Chlorinated pa	araffins C10-13, Cl≥48 wt%	Forbidden
8	Mirex		Forbidden
9	PCN		Forbidden
10	Hexavalent Chromium compou	inds	<100ppm
11	Mercury and its compounds		Forbidden
12	Asbestos		Forbidden
13	Organic Tin compounds		
14	Azo compounds		Forbidden
15	TBBP-A in external case plastic	c parts of products (PCB is exempted)	<1000ppm
16	Nickel in external case parts, whic	h are likely to result in prolonged skin exposure	<1000ppm

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建準電機工業股份有限公司	SPEC.NO	A17000820G-00	REVISION DAT	36 / The 11 / 7756
SUNONWEALTH ELECTRIC	ISSUE DATE	05. 30. 2005	EDITION	學研發部
MACHINE INDUSTRY CO., LTD.	PAGE	11 OF 11		2010.09.23
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