

SPECIFICATION FOR APPROVAL

TO : _____

REF. No. _____

APPROVED DATE 	CHECKED DATE 	PREPARED DATE 
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MODEL No. AA1281UB-AT P.S. (CF)

DESCRIPTION: AC FAN (RoHS) REV. A

ID No. _____

THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY.
UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR
ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY

KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY
SIGNED AS YOUR CONFIRMATION OF SAME.



ADDA CORP.
REGISTERED TO ISO 9001
18371813978
CERTIFICATE NO. A8035

 **ADDA CORPORATION**

DATA - SHEET

Engineering

Printed On: 11/11/03

BRUSHLESS AXIAL COOLING FANS

Customer	:		Ref: (RoHS)
Adda Model No	:	AA1281UB-AT P.S: (CF)	
Samples attached	:	Piece(s),	
Safety Approval	:	UL,CUL,TUV, CE	TUV:EN60335-1:2002+A1+A11+A12 EN60335-2-80:2003+A1 UL:UL 507 CE:EN 55014-1:2006 EN 55014-2:1997+A1 EN 61000-3-2:2006 EN 61000-3-3:1995+A1+A2
<u>Specifications</u>			
<u>ITEM</u>		<u>SPECIFICATION / CONDITION</u>	
DIMENSIONS	:	120x120x38 mm	
BEARING TYPE	:	BALL	
RATED VOLTAGE	:	115 VAC	
OPERATING VOLTAGE RANGE	:	110 VAC — 120 VAC	
OPERATIONG FREQUENCY	:	50 / 60 Hz	
REAL CURRENT	:	0.28 / 0.24 Amp	
REAL POWER	:	21.20 / 19.20 Watt	
RATED CURRENT	:	0.33 / 0.27 Amp + 10%	
RATED POWER	:	38.00 / 31.10 Watt	
RATED SPEED	:	2400 / 2600 RPM ± 10%	
AIR FLOW	:	96.000 / 107.000 CFM (min: 86.400 / 96.300 CFM)	
AIR FLOW	:	2.716 / 3.028 CMM (min: 2.444 / 2.725 CMM) / (min at zero air flow.)	
STATIC AIR PRESSURE	:	0.240 / 0.250 Inch H ₂ O (min: 0.216 / 0.225 Inch H ₂ O)	
STATIC AIR PRESSURE	:	6.096 / 6.350 mm H ₂ O (min: 5.486 / 5.715 mm H ₂ O) / (min at zero air flow.)	
NOISE LEVEL	:	46.4 / 48.1 dB(A) (max.: 50.4 / 52.1 dB(A))	
MOTOR PROTECTION	:	Impedance Protect	
LIFE EXPECTANCY	:	50000 Hours at 25°C / 65% RH	
NET WEIGHT	:	550 Gram.	
PACKING	:	40 pcs. Per Export Carton.	

Unless otherwise stated, the relative humidity is 65%, and the temperature is 25°C or the standard testing.
Should you have any doubt, please refer to the environmental conditions specified in the acknowledgement document.



ADDA CORPORATION	Model No.: AA1281UB-AT	P.S: (CF)	Page 1/4
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SPECIFICATION

1 · 0 Scope : This documentation defines the mechanical & electrical characteristics of AC brushless fans.

2 · 0 Material :

2 · 1 Housing High quality aluminum die-casting frame flated with black paint.

2 · 2 Fan blade UL 94V - 0 Glass filled polyester (P.B.T)

2 · 3 Bearing Sys Oil impregnated sleeve or
 Ball Bearing : Japan
 Hypro Bearing
 one Ball one Sleeve
 RoHS

2 · 4 RoHS wire UL 1430 , 22AWG

2 · 5 Connector Not included in this fan
 Note as : -----

3 · 0 Dimension & construction : All dimension, direction of rotation and air flow, rated characteristics are specified in drawing & data-sheet of enclosed.

4 · 0 Characteristics definition :

4 · 1 Rated current : Rated current shall be measured after 30 minutes continuous rotation at rated voltage.

4 · 2 Rated speed : Rated speed shall be measured after 30 minutes continuous rotation at rated voltage.

4 · 3 Start voltage : The voltages that enable to start the fan by sudden switch on.

4 · 4 Input power : Input power shall be measured after 30 minutes continuous rotation at rated voltage.

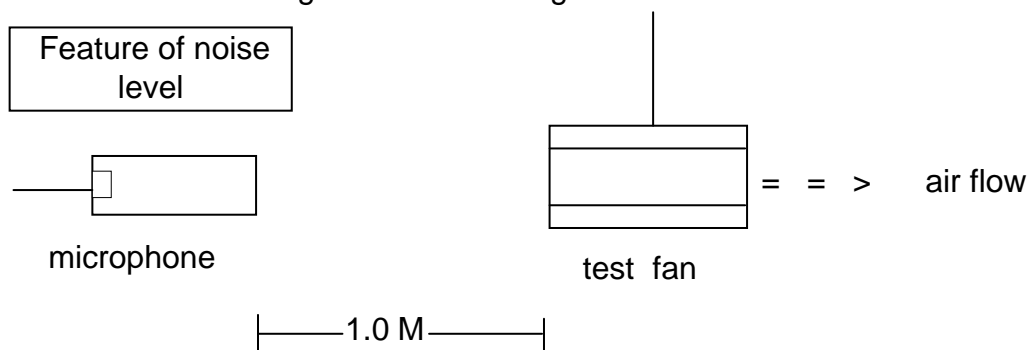
4 · 5 Locked current : Locked current shall be measured with in one minutes or rotor locked , After 30 minutes continuous rotation at rated voltage in clean air.

4 · 6 Air flow & static pressure : The air flow data and static pressures are determined in accordance with AMCA-210 standard or DIN 24163 specification in a double-chamber testing with intake-side measurement.



SPECIFICATION

- 4 · 7 Noise level : The measurement of noise level is carried out with reference to CNS8753 in a anechoic chamber with the microphone positioned 1 M from the air intake. Testing fan shall be hung in clear air.



5 · 0 Mechanical inspection

- 5 · 1 Rotation direction : Clockwise from the front face of the fan. A clear " = = > " (arrow mark) shall be found on the body of housing .
- 5 · 2 Safe design : All fans have intergrated protection against locked rotor condition so that there can be no damage on winding and / or any electrical components. Restart is automatic as soon as any constraint to running has been released.
- 5 · 3 Locked rotor protection : No damage shall be found for continuous 72 hours at condition of rotation locked. Restart is automatic as soon as constraint to running has be releessed.
- 5 · 4 Free drop shock : In minute package condition. The fan should withstand each one drop of three faces from 30 cm distance height onto 10 mm thickness of wooden board

6 · 0 Electrical inspection

- 6 · 1 Insulation resistance : 100 MΩ or more at 500 V megger.
- 6 · 2 Dielectric strength : 1 minute at 1500 VAC / 50-60Hz

7 · 0 Environmental

- 7 · 1 Operating Temperature : - 10°C ~ + 70°C
- 7 · 2 Humidity RH : 20 % ~ 85 % (Max)
- 7 · 3 Storage Temperature : Will satisfy performace standards after 500 hours storage at - 40 °C ~ 70 °C (norma humidity) with a 24 - hour recovery period at room temperature.



SPECIFICATION

7 · 4 Humidity : After 96 hrs, 95 % RH, 40 ± 2 °C per MIL - STD - 202F, method 103B, Humidity test, The measured data of insulation resistance & dielectric strength should meet the specification listed in attach.

7 · 5 Theraml Shock : After thermal shock test per MIL - STD - 202F, method 107G, condition D, The measured data of insulation resistance & dielectric strength should the specification listed in datasheet.

8 · 0 Remark

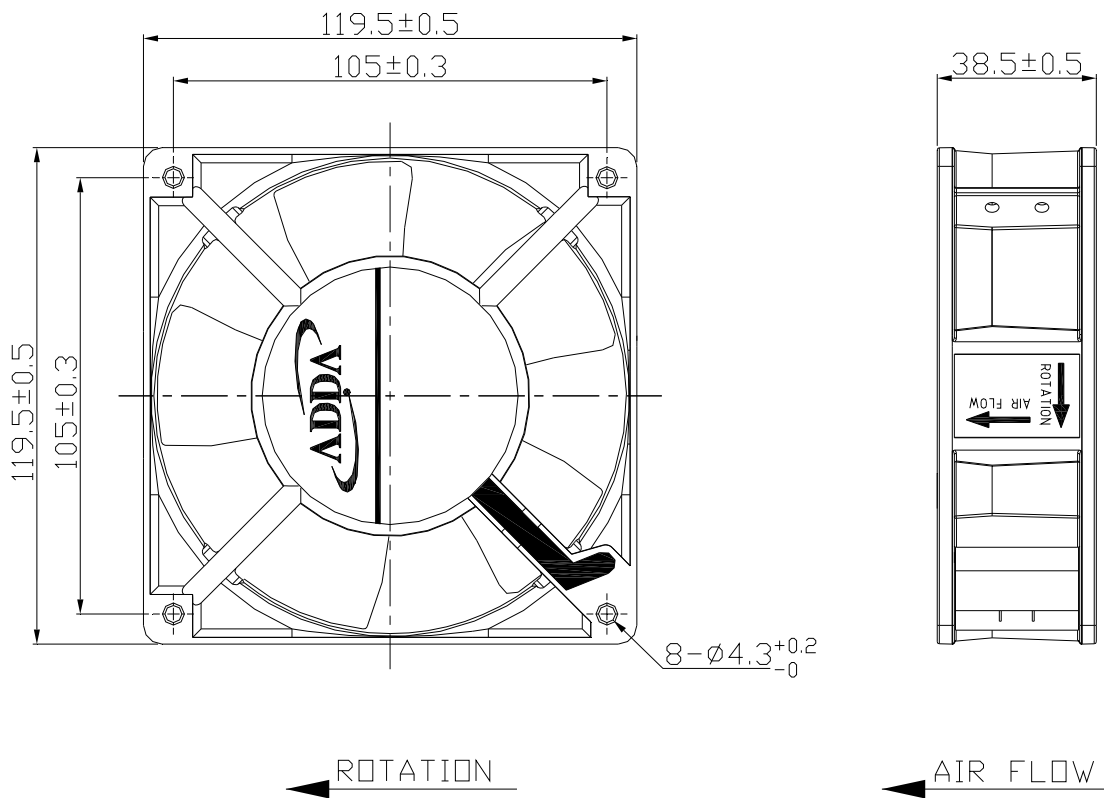
8 · 1 Material and construction are subject to change without advance notice.
The changes should be within specification listed in this approved sheet.

8 · 2 All the fans shall meet the inspection under sampling plan MIL - STD - 105E,
The AQL are as follow :

Critical	AQL = 0.25 %
Major	AQL = 1.00 %
Minor	AQL = 2.50 %



9 · 0 Drawing

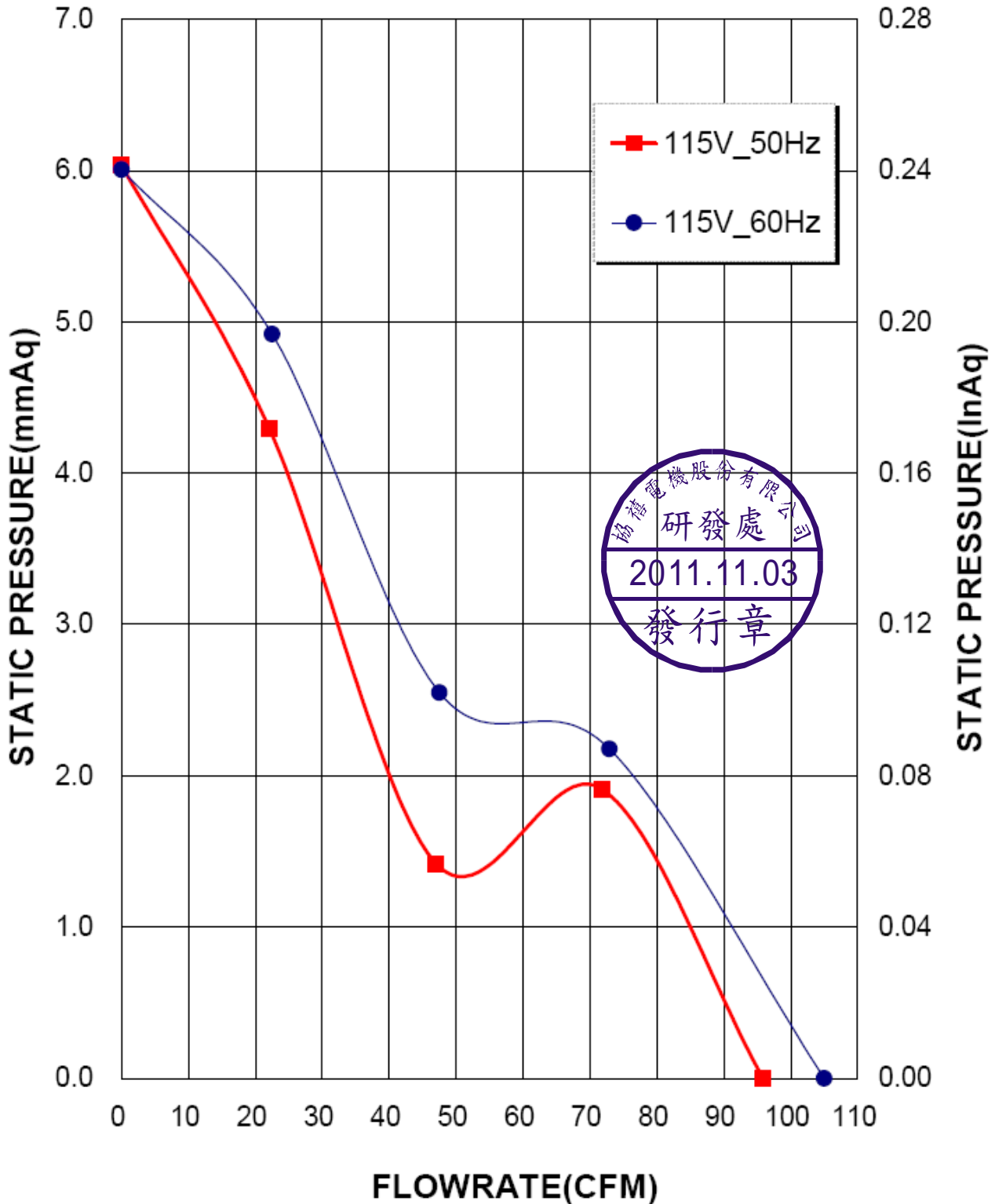


Model : AA1281UB-AT(CF)

Fan Performance Curve

FLOWRATE(CMM)

0.00 0.28 0.57 0.85 1.13 1.42 1.70 1.98 2.26 2.55 2.83 3.11



Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50039222

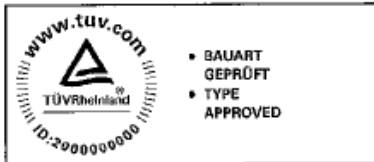
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Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum	Date of Issue (day/mo/yr)
893900478	ZTW2-WHS- 11002035 013	30.06.2009	

Genehmigungsinhaber License Holder
Adda Corporation
6, East Section, Industry 6 Road
Pingtung City 900
Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant
Adda Corporation
6, East Section, Industry 6 Road
Pingtung City 900
Taiwan, R.O.C.

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

EN 60335-1:2002+A1+A11+A12+A2+A13
EN 60335-2-80:2003+A1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Ventilator (AC Fan)

Wie Blatt (As Page) 01
Änderung (Change)
Prüfgrundlage
(Test Requirement)

: siehe oben
(see above)

Änderung für Bezeichnung
(Change for Type Designation)

: AA1751MB-AW, AA1751MB-AT,
AA1281UB-AT, AA1281US-AT,
AA1281UX-AT, AA1281UB-AW,
AA1281US-AW, AA1281UX-AW,
AA1282UB-AT, AA1282US-AT,
AA1282UX-AT, AA1282UB-AW,
AA1282US-AW, AA1282UX-AW

Bemessungsstrom
(Rated Current)

: siehe Anlage
(see appendix)

ANLAGE
(Appendix)

: siehe unten
(see below)

ANLAGE (Appendix): 1.1 & 1.2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

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Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Dipl.-Ing. B. Scheirer

