SPECIFICATION FOR APPROVAL

REF. No.		
APPROVED DATE 研發處 2009-2-11. 簡文学	CHECKED DATE 研發處 700-2-10 林俊男	PREPARED DATE 研發處 2003-2- 7. 吳靜心
MODEL No. AK	2581HB	P.S. (AT)
	C FAN (RoHS)	REV. C
ID No.	DELLITE SHELEN BERNADORES SHOWLES LIVE STER LAND ARE SHOWED STEELING CONTROL OF THE STEELING STEELING STEELING	PATE AND AND THE SECURE VERTICAL RESIDENCE CONTRACTOR OF THE SECURE CON
	ACCORDING TO YOUR CL (ISED, THIS SPECIFICATION	

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.





DAP CORPORATION

BRUSHLESS AXIAL COOLING FANS

Customer : Ref: (RoHS)

Adda Model No : AK2581HB P.S:(AT)

Samples attached : Piece(s),

Safety Approval : UL,CUL,TUV,CE

Specifications

ITEM SPECIFICATION / CONDITION

MEASUREMENTS : 254x89 mm

BEARING TYPE : BALL

RATED : 115 VAC +/- 10%

OPERATING VOLTAGE RANGE : 110 - 120 VAC

OPERATING FREQUENCY : 50 / 60 Hz

RATED / ACTUAL CURRENT : 0.55 / 0.62 A / 0.60 / 0.58 A

INPUT /ACTUAL POWER : 71.9 / 70.5 Watt / 68.5 / 67.1 Watt

RATED SPEED : 2000 / 2100 RPM + / - 10 %

AIR FLOW : 630.0 / 680.0 CFM

(min at zero static pressure.)

STATIC AIR PRESSURE : 0.275 / 0.346 INCH-H20

(min at zero air flow.)

NOISE LEVEL : 62.0 / 66.0 dB (A) ±2

NET WEIGHT : 2000 Gram.

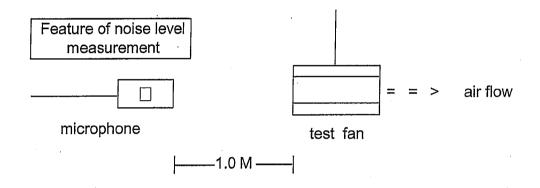
PACKING : 6 pcs. Per Export Ca

•	mentation defines the mechanical & electrical charcterists shless 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 1015, 20 AWG
2 · 5 Connector	☐ Not included in this fan☐ Note as :
3 · 0 Dimension & construction	on : All dimension, direction of rotation and air flow, rated characteristics are specifide in drawing & data-sheet of enclosed.
4 · 0 Characteristics definitio	n :
	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.
	研發處

SPECIFICATION

- $4\cdot 5\,$ 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 standard or DIN 24163 specification in a double-chamber testing with intake-side measurement.
- 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.



$5 \cdot 0$ 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.



SPECIFICATION

- 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 relessed.
- 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

 $6 \cdot 1$ Insulation resistance : 100 M Ω or more at 500 V megger.

6 · 2 Dielectric strength : 1 minute at 1500 VAC / 50-60Hz

6 · 3 Basic Rated Life (L10)

Bearing type	Temperature	Hours
	25℃	31000
Sleeve bearing	50℃	15000
	70℃	10000
	25℃	50000
Ball bearing	50℃	30000
	70℃	20000

7 · 0 Environmental

7 · 1 Operating Temperature : - 10°C ~ + 70°C

 $7 \cdot 2$ Humidity RH : 20 % ~ 85 % (Max)

 $7 \cdot 3$ Storage Temperature : Will satisfy performace standards after 500

hours storage at - 40 $^{\circ}$ C ~ 70 $^{\circ}$ C (normal humidity) with a 24 - hour recovery period

at room temperature.



SPECIFICATION-

- 7 · 4 Humidity : After 96 hrs, 95 % RH, 40 \pm 2 $^{\circ}$ 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.

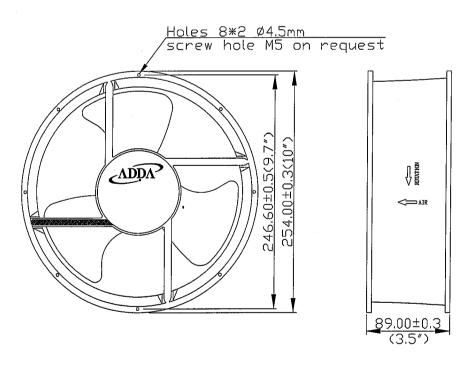
8 · 0 Remark

- 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



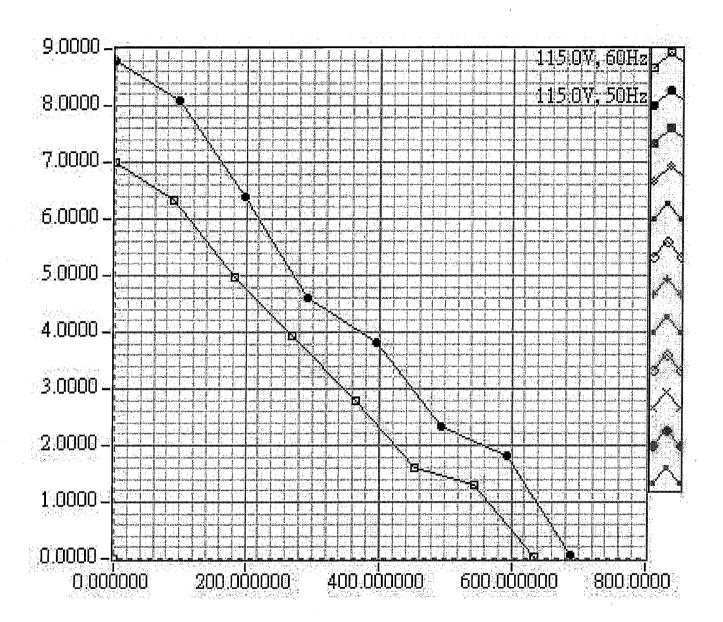


ADDA CORPORATION

MODEL NO: AK2581HB P.S:(AT)

Page 5/5

AK2581HB(AT)





Underwriters Laboratories Inc. Multiple Recognition Correlation Sheet

ML FILE NO. E132139

Issued:

2006-05-03

MULTIPLE RECOGNITION
of
FANS, ELECTRIC - COMPONENT
(GPWV2, GPWV8)

for

[349050-002]

ADDA CORP

Basically Recognized for:

[420883-001]

SHENG KWEI ENTERPRISE CO LTD

(TPI)

Basically Recognized products covered by Procedure and/or Reports under File No. E202962, Volume 1

Products Covered	Report Date	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designations
00,0203			
AC Fans	1999-09-07	SK825AP-11-1	AK8251HB
AO I and		SK825AP-22-1	AK8252HB
		SK92AP-11-1	AK9251HB
		SK92AP-22-1	AK9252HB
		SK109AP-11-1	AK1281HB
		SK109AP-22-1	AK1282HB
		SK172AP-11-1	AK1751HB
		SK172AP-22-1	AK1752HB
	2002-01-14	SK825AP-11-2	AK8251MB
	2002 01 11	SK825AP-11-3	AK8251LB
		SK838AP-11-1	AK8381HB
t		SK838AP-11-2	AK8381MB
		SK838AP-11-3	AK8381LB
		SK92AP-11-2	AK9251MB
		SK92AP-11-3	AK9251LB
		SK938AP-11-1	AK9381HB
		SK938AP-11-2	AK9381MB
,		SK938AP-11-3	AK9381LB
		SK125AP-11-1	AK1251HB
		SK125AP-11-2	AK1251MB
		SK125AP-11-3	AK1251LB 可爱点
		SK109AP-11-2	AK1281MB 2009 2 1
		SK109AP-11-3	AK1281LB
		D1110712	微行音

MARKING:

Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, ML Tradename, when applicable, and product designation.

Underwriters Laboratories Inc. Multiple Recognition Correlation Sheet

Issued:

2006-05-03

M/L

[349050-002]

ADDA CORP

AP

[420883-001]

SHENG KWEI ENTERPRISE CO LTD

(TPI)

Products Covered	Report Date	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designations
	2002-01-15	SK825AP-22-2	AK8252MB
	2002-01-13	SK825AP-22-3	AK8252LB
		SK838AP-22-1	AK8382HB
		SK838AP-22-2	AK8382MB
		SK838AP-22-3	AK8382LB
		SK92AP-22-2	AK9252MB
		SK92AP-22-3	AK9252LB
• •		SK938AP-22-1	AK9382HB
		SK938AP-22-2	AK9382MB
		SK938AP-22-3	AK9382LB
		SK125AP-22-1	AK1252HB
		SK125AP-22-2	AK1252MB
		SK125AP-22-3	AK1252LB
		SK109AP-22-2	AK1282MB
		SK109AP-22-3	AK1282LB
	2002-01-16	SK162AP-11-1	AK1651HB
		SK162AP-11-2	AK1651MB
		SK162AP-11-3	AK1651LB
		SK172AP-11-2	AK1751MB
		SK172AP-11-3	AK1751LB
	•	SK205AP-11-1	AK2071HB
		SK254AP-11-1	AK2581HB
		SK254AP-11-2	AK2581MB
	2002-01-17	SK162AP-22-1	AK1652HB
		SK162AP-22-2	AK1652MB
		SK162AP-22-3	AK1652LB
		SK172AP-22-2	AK1752MB
		SK172AP-22-3	AK1752LB
		SK205AP-22-1	AK2072HB
		SK254AP-22-1	AK2582HB
		SK254AP-22-2	AK2582MB

MARKING:

Same as that described in Follow-Up Service Procedure and/or Report except for

Multiple Listee's name, ML Tradename, when applicable, and product desi

Underwriters Laboratories Inc.
Multiple Recognition Correlation Sheet

Issued:

2006-05-03

M/L

[349050-002]

ADDA CORP

ΑP

[420883-001]

SHENG KWEI ENTERPRISE CO LTD

(TPI)

Products Covered	Report Date	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designations
	2004-05-20	SK176AP-11-1 SK176AP-22-1 SK180AP-11-1 SK180AP-22-1	AK1781HB AK1782HB AK1861HB AK1862HB

MARKING:

Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, ML Tradename, when applicable, and product designation.

UL INSPECTION CENTER TAICHUNG - 817



Industrial Services, Mobility and Transport, Product Safety and Quality, Education and Consulting, IT Services and Innovation



TÜV Rheinland Group

: 07.04.2006

Our ref.

: IRC ZTW1

Date

Your ref.: 12039117/EH

Sheng Kwei Enterprise Co., Ltd. Mr. Shun-Tung Tsao, President

No. 273, Hsing Nan Street Tainan City 702

Taiwan

TÜV-Mark Approval Ref : R

Type of Equipment : (AC Fan)

Model Designation : See Certificate Certificate No.

: R 50081257 0001

Report No.

: 10002060 004

Dear Mr. Shun-Tung Tsao,

Enclosed please find above certification documents. Please forward these originals to the certificate holder.

If you contact our office, please quote our reference above. We thank you for your cooperation.

The certificate holder is: Adda Corporation

With kind regards,

Certification Body

Dipl.-Ing. W. Hsu

Enclosure

TÜV RHEINLAND TAIWAN LTD.

7F, No. 2, Min Chuan E. Rd., Sec.3, Taipei 104, Taiwan, R.O.C. Tel. (02) 2516-6040 Fax (02) 2504-5040 http://www.twn.tuv.com

TAICHUNG BRANCH: 10F, No. 219, Min Chuan Rd., Taichung 403, Taiwan, R.O.C. Tel. (04) 2301-9898 Fax (04) 2301-9696

KAOHSIUNG BRANCH: 33F-3, No. 80, Min Tzu 1st Rd., Kaohsiung 807, Taiwan, R.O.C. Tel. (07) 380-1722 Fax (07) 380-1728

NANKANG BRANGL No. 99-23, Nan Kang Rd Taipei 115, Taiwan, R.O.C. Tel. (02) 2783-6650 Fax (02) 2783-7117

Industrial Services, Mobility and Transport, Product Safety and Quality, Education and Consulting, IT Services and Innovation



TÜV Rheinland Group

Adda Corporation
Mr. You-Wen Huang
R & D Department
6, East Section, Industry 6 Road
Pingtung City 900

Date : 07.04.2006 Our ref. : IRC ZTW1 Your ref.: 12039117/EH

Ref : R TÜV-Mark Approval

Taiwan

Type of Equipment : (AC Fan)

Model Designation : See Certificate Certificate No. : R 50081257 0001 Report No. : 10002060 004

Dear Mr. You-Wen Huang,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Enclosed you will find the certificate of approval.

If cancellation of the certificate is submitted by November 15 in a given year, no fee will be charged for the following year.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

Please contact our office for approval of your new products.

With kind regards,

Certification Body

Dipl.-Ing. W. Hsu

CC: Sheng Kwei Enterprise Co., Ltd.

Enclosure

TÜV RHEINLAND TAIWAN LTD.

7F, No. 2, Min Chuan E. Rd., Sec.3, Taipei 104, Taiwan, R.O.C. Tel. (02) 2516-6040 Fax (02) 2504-5040 http://www.twn.tuv.com

TAICHUNG BRANCH: 10F, No. 219, Min Chuan Rd., Taichung 403, Taiwan, R.O.C. Tel. (04) 2301-9898 Fax (04) 2301-9696 KAOHSIUNG BRANCH: 33F-3, No. 80, Min Tzu 1st Rd., Kaohsiung 807, Taiwan, R.O.C. Tel. (07) 380-1722 Fax (07) 380-1728 NANKANG BRANCH: No. 99-23, Nan Kang Rd., Sec. 2, Taipei 115, Taiwan, R.O.C. Tel. (02) 2783-6650 Fax(02) 2783-7117

Zertifikat Certificate



Zertifikat Nr. Certificate No. R 50081257

Blatt Page 0001

Ausstellungsdatum

Ihr Zeichen Client Reference 12039117/EH

Unser Zeichen Our Reference ZTW1-IRC- 10002060 004

07.04.2006

Date of Issue (day/mo/yr)

Genehmigungsinhaber License Holder Adda Corporation 6, East Section, Industry 6 Road Pingtung City 900 Taiwan

Fertigungsstätte Manufacturing Plant ZTW1-BIO-10002060 001

Prüfzeichen Test Mark

BAUART GEPRÜFT TYPE APPROVED Geprüft nach Tested acc. to EN 60335-1:2002+A1+A11 EN 60335-2-80:2003+A1

Zertifiziertes Produkt (Geräteidentifikation) (Product Identification) Certified Product

Lizenzentgelte - Einheit License Fee - Unit

Ventilator (AC Fan)

Bezeichnung

: AKxxxyzB

5

(Type Designation)

xxx steht für

: 125, 128, 165, 175, 178, 186, 207

1

(stands for)

258, 825, 838, 925 oder (or) 938

٦

y steht für

: 1 oder (or) 2

(stands for)

z steht für (stands for) : H, M oder (or) L

Nennspannung

: AC 100-120V, 50/60Hz (y=1) AC 200-240V, 50/60Hz (y=2)

(Rated Voltage) Nennstrom

: siehe Anlage

(Rated Current)

(see Appendix)



8

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Zertifizierungsstelle Dipl.-Ing. W. Hsu



Appendix to TÜV Bauart approved Certificate No.: R 50081257

Kind of equipment: AC Fan

Report number

: 10016385 001

Model Name

: AKxxxyzB (xxx= 125, 128, 165, 175, 178, 186, 207, 258, 825, 838, 925 or 938; y= 1 or 2; z= H, M or L)

Model No.	Voltage (V)	Current (A)
AK8251HB	100-120	0.17/0.15
AK8251MB	100-120	0.09/0.08
AK8251LB	100-120	0.07/0.06
AK8252HB	200-240	0.08/0.07
AK8252MB	200-240	0.06/0.05
AK8252LB	200-240	0.05/0.04
AK8381HB	100-120	0.12/0.10
AK8381MB	100-120	0.07/0.06
AK8381LB	100-120	0.05/0.04
AK8382HB	200-240	0.06/0.05
AK8382MB	200-240	0.05/0.04
AK8382LB	200-240	0.04.0.03
AK9251HB	100-120	0.18/0.16
AK9251MB	100-120	0.09/0.08
AK9251LB	100-120	0.07/0.06
AK9252HB	200-240	0.08/0.07
AK9252MB	200-240	0.06/0.05
AK9252LB	200-240	0.05/0.04
AK9381HB	100-120	0.12/0.11
AK9381MB	100-120	0.07/0.06
AK9381LB	100-120	0.05/0.04
AK9382HB	200-240	0.06/0.05
AK9382MB	200-240	0.05/0.04
AK9382LB	200-240	0.04/0.03
AK1251HB	100-120	0.25/0.20
AK1251MB	100-120	0.09/0.08
AK1251LB	100-120	0.06/0.05



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Appendix to TÜV Bauart approved Certificate No.: R 50081257

Kind of equipment: AC Fan

Report number

: 10016385 001

Model Name

: AKxxxyzB (xxx= 125, 128, 165, 175, 178, 186, 207, 258,

825, 838, 925 or 938; y= 1 or 2; z= H, M or L)

Model No.	Voltage (V)	Current (A)
AK1252HB	200-240	0.09/0.07
AK1252MB	200-240	0.06/0.05
AK1252LB	200-240	0.05/0.04
AK1281HB	100-120	0.25/0.21
AK1281MB	100-120	0.14/0.13
AK1281LB	100-120	0.10/0.10
AK1282HB	200-240	0.12/0.10
AK1282MB	200-240	0.07/0.06
AK1282LB	200-240	0.06/0.05
AK1651HB	100-120	0.56/0.50
AK1651MB	100-120	0.28/0.27
AK1651LB	100-120	0.21/0.19
AK1652HB	200-240	0.30/0.25
AK1652MB	200-240	0.17/0.16
AK1652LB	200-240	0.13/0.12
AK1751HB	100-120	0.24/0.25
AK1751MB	100-120	0.17/0.21
AK1751LB	100-120	0.16/0.20
AK1752HB	200-240	0.12/0.16
AK1752MB	200-240	0.10/0.12
AK1752LB	200-240	0.09/0.16
AK1781HB	100-120	0.57/0.48
AK1782HB	200-240	0.21/0.23
AK1861HB	100-120	0.53/0.50
AK1862HB	200-240	0.23/0.24
AK2071HB	100-120	0.60/1.0
AK2072HB	200-240	0.30/0.49



Page 2 of 3



Appendix to TÜV Bauart approved Certificate No.: R 50081257

Kind of equipment: AC Fan

Report number

: 10016385 001

Model Name

: AKxxxyzB (xxx= 125, 128, 165, 175, 178, 186, 207, 258,

825, 838, 925 or 938; y= 1 or 2; z= H, M or L)

Model No.	Voltage (V)	Current (A)
AK2581HB	100-120	0.55/0.62
AK2581MB	100-120	0.22/0.24
AK2582HB	200-240	0.26/0.30
AK2582MB	200-240	0.16/0.14

Date: April 07, 2006

Certification Body





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ADDA:

AK2581MB-AW-LF