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SPECIFICATION FOR APPROVAL	
ТО :	
REF. No	
APPROVED DATE 研發處 2011.10.26 簡文榮	
MODEL No. <u>AB1224MB-Y01</u> P.S. <u>P.S.</u> DESCRIPTION: <u>DC FAN (RoHS)</u> REV. D	
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.	
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DATA-SHEET

Engineering

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11/10/26

BRUSHLESS AXIAL COOLING FANS Customer Ref: (RoHS) : Adda Model No : AB1224MB-Y01 Samples attached : Piece(s), TUV:EN 60950-1:2006+A11 Safety Approval : UL,CUL,TUV,CE UL:UL507 CE:EN 61000-6-1:2007 EN 61000-6-3:2007 **Specifications** SPECIFICATION / CONDITION ITEM DIMENSIONS : 120x120x32 mm **BEARING TYPE** : BALL RATED VOLTAGE : 24 VDC OPERATING VOLTAGE RANGE VDC : 21.6 26.4 VDC VDC . NORMAL START-UP VOLTAGE : 17.0 **REAL CURRENT** : 0.36 Amp **REAL POWER** : 8.64 Watt RATED CURRENT : 0.39 Amp 10 %MAX + RATED POWER : 9.36 Watt RATED SPEED : 2300 RPM 10 % ± (IN FREE AIR AT RATED VOLTAGE) AIR FLOW : 28,201 CFM (min.: 25.380 CFM) CMM : 0.798 AIR FLOW (min.: 0.718 CMM) (IN FREE AIR AT RATED VOLTAGE) STATIC AIR PRESSURE : 0.889 Inch H₂O (min.: 0.720 Inch H_2O) STATIC AIR PRESSURE : 22.580 mm H₂O (min.: 18.289 mm H_2O) (IN FREE AIR AT RATED VOLTAGE) NOISE LEVEL : 49.0 dB (A) (max.: 53.0 dB(A)) MOTOR PROTECTION IC : BY POLARITY PROTECTION : NO CONNECTION LEAD TYPE : WIRE, AWG# 24 LIFE EXPECTANCY : 70000 Hours at **40**°C / 65% RH NET WEIGHT : 251 Gram. PACKING : 40 pcs. Per Export Carton.

Unless otherwise stated, the relative humidity is 65%, and the temperature is 25° C for the standard testing.

Should you have any doubt, please refer to the environmental conditions specified in the acknowledgement document.



SPECIFICATION

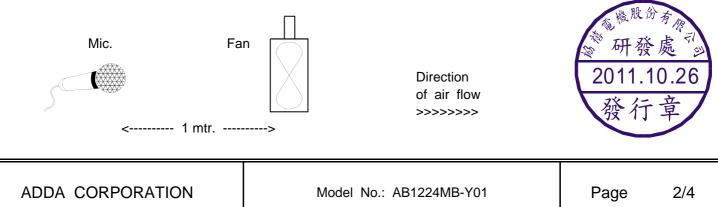
1 · 0 SCOPE 1.1 If the information or other related document is inconsistent with this acknowledgement document, please refer to the acknowledge document. 1.2 This documentation defines the mechanical & electrical characteristics of DC brushless fans. 1.3 The specification of this product is described in details in the acknowledgement document. No guarantee is given to our product under the use of over specifications. 1.4 For any change or amendment to the specifications, such change will be noticed in writing beforehand. 1.5 If the product is used on the MIS system, please specify the specification in the purchase order. 2.0 MATERIAL : UL94V-0 Glass Filled polyester (P.B.T) 2 · 1 Frame 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T) $2 \cdot 3$ Bearing Sys. : () Sleeve, oil impregnated. (V) Two Ball Bearing () One Ball one Sleeve () Hypro Bearing () FDB Bearing 2 · 4 RoHS : (V) YES : () YES HF 3 · 0 DIMENSIONS & CONSTRUCTION All dimensions, Direction of rotation and air flow were specified as per drawing attached. 4 · 0 CHARACTERISTICS & DEFINITION 4 · 1 All rated characteristics were specified as per data sheet enclosed. 4 · 2 Rated Current : Rated Current shall be measured after 3 minutes of continuous rotation at rated voltage. 4 · 3 Rated Speed : Rated Speed shall be measured after 3 minutes.

of continuous rotation at rated voltage. 4 · 4 Start Voltage : The voltage which is able to start the fan to operate by suddenly switching 'ON '.

4 · 5 Input Power : Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.

- 4 · 6 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4 · 7 Air Flow & Static Pressure : The air flow data and static pressures should be determined in accordance with AMCA-210 standard or DIN24163 specification in a doublechamber testing with intake – side measurement.
- 4 · 8 Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

NOISE LEVEL MEASUREMENT



5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when look into impeller side.

5.2 Protection

All fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component.

Restarting is automatic as soon as any constraint to rotation has been released. As fan placed at dead angle position, and the switch was changed from off to on. Restarting was automatic normal as soon as and proved that this fan is good fan.

5.3 Locked Rotor Protection

No damage shall be found after 72 hours continuously at condition of rotation locked. Restarting is automatic as soon as constraint to running has been released.

- 5.4 Avoid the damage, check the correct voltage and proper polarity before connecting with power.
- 5.5 Free Drop Shock

In minimum package condition, the fan should withstand drops on any three faces from a height of 30cm onto a wood board of 10mm thick.

- 5.6 Please do not stick a grease and/or an oil to the fan housing or blade which may have a harmful influence by a chemical reaction at high humidity.
- 5.7 If the fan is reinstalled, please pay special attention to the noise due to the vibration (or resonance).
- 5.8 During the testing of the fan, please make sure the finger guard is used for safety.

6.0 ELECTRICAL INSPECTION

6.1 Insulation Resistance

Not less than 10M ohm between housing and positive end of lead wire (red) at 500V DC. 6.2 Dielectric Strength

No damage should be found at 500 VAC for 60 seconds, measured with 1mA trip current between housing and positive end of lead wire.

6.3 Life Expectancy

The continous duty life at given temperature after which, 90% of testing units shall still be running.

- 6.4 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by the long-time locking will damage the fan.
- 7.0 ENVIRONMENTAL
 - 7.1 Improper use such as disassembling the fan, being covered with dust, or dipping the fan in water that results in defects is not covered in the warranty. Do not use the fan in the environment with corrosive air or liquid.
 - 7.2 Operating Temperature / Humidity

-10°C to +70°C at humidity 65%+/-20% RH.

7.3 Storage Temperature

All function shall be normal after 500 hours storage at -40° C to $+70^{\circ}$ C with a 24 hour recovery period at room temperature.

7.4 Humidity

After 96 hours, 95% RH, 40+/-2 $^\circ\!\!\mathbb{C}$ per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

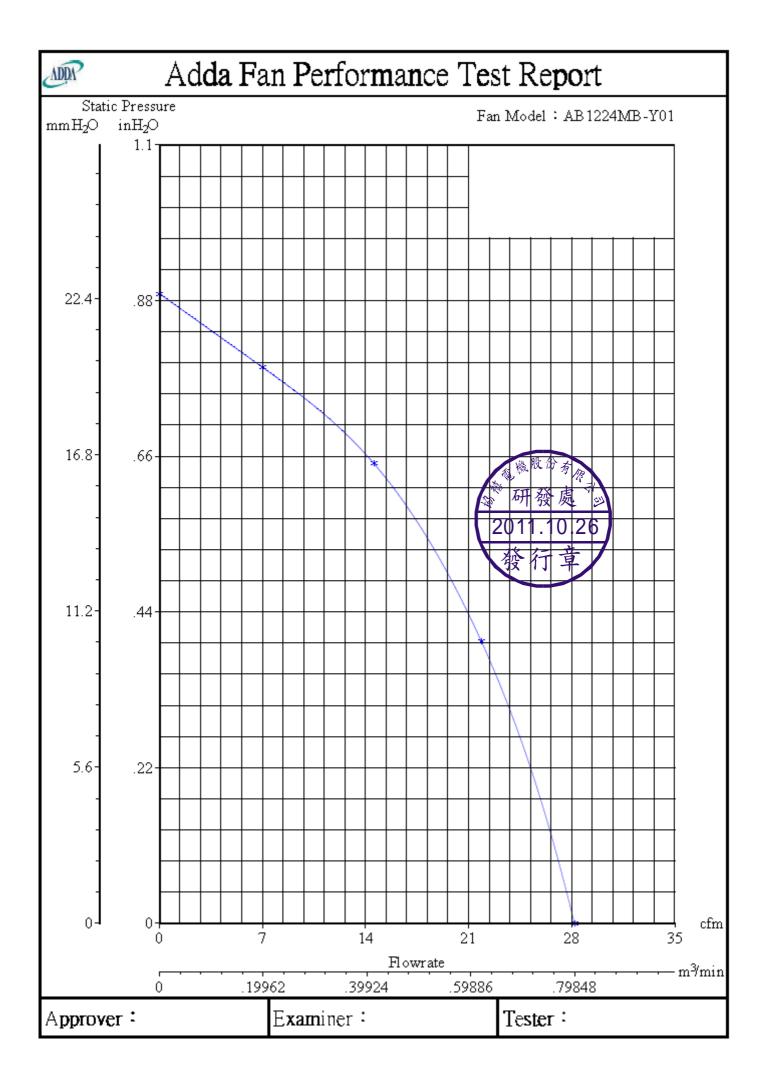
7.5 Do not place or store the fan in the environment with high/low temperature/humidity. Do not store the fan for over 6 months; even if the fan is stored in room temperature for over 6 months, the fan may have the electric current leakage.



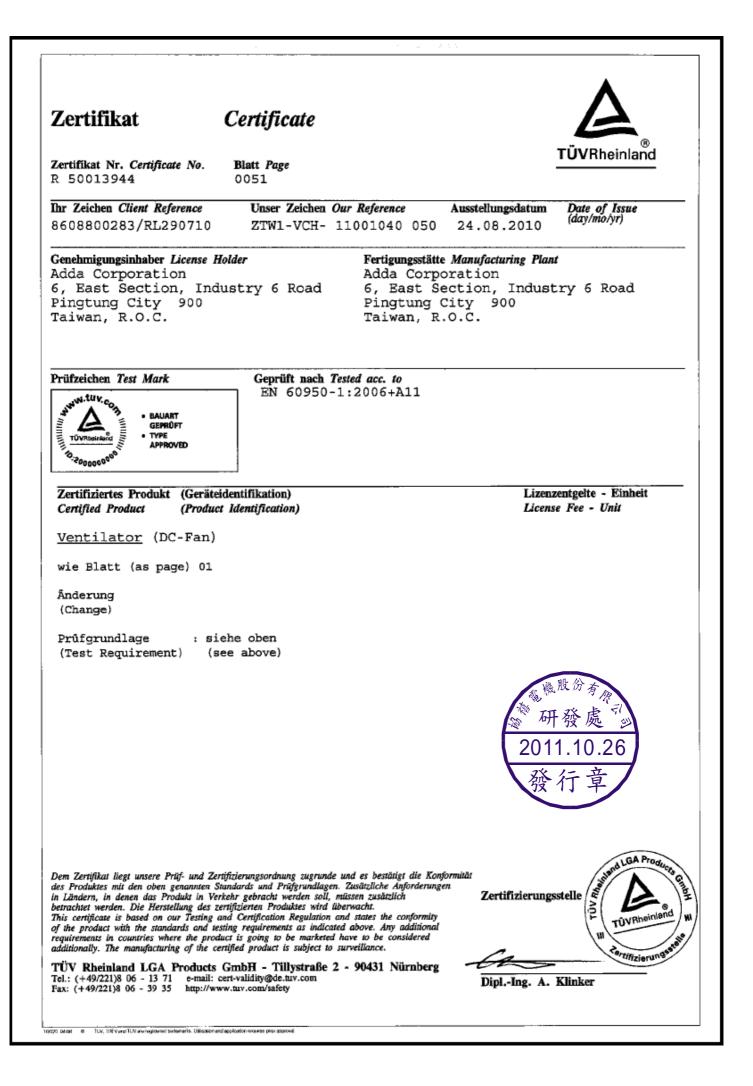
ADDA CORPORATION

SPECIFICATION

	nges should be within specification. Iality inspection under sampling	
Major 1).25% .00% 2.50%	
9.0 OUTLINE STYLING & DIMENS	SIONS	
120.50±0.5 60.25 52.30 00000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3-ø4.3±0.1
Red 10.0 Notes: 10.1 Please do not touch and fan blade and ball bearing 10.2 Do not carry the fan by i 10.3 If the fan does not have colored wires should be re damaged in no time. 10.4 For the models without re connect the lead wire in the 10.5 Please don't install this fan i fan rated at 12V, then don't 10.6.Every specific fan is designed use this fan in other applicat	the polarity protection function, the connection o ed + red, and black + black, or else the fan will b verse connection of polarity protection, please d	of the be lo not ngle rou want to an confirm
ADDA CORPORATION	Model No.: AB1224MB-Y01	Page 4/4



Zertifikat	Certificate			ΤÜν
Zertifikat Nr. Certificate No. R 50013944	Blatt <i>Page</i> 0024			100
Ihr Zeichen Client Reference 12031018	Unser Zeichen On ZTW2-MRC- 1	<i>ur Reference</i> 1001040 025	Ausstellungsdatum 01.04.2005	Date of Issue (day/mo/yr)
Genehmigungsinhaber License Adda Corporation 6, East Section, Inc Pingtung City 900 Taiwan, R.O.C.		Adda Corpo	ction, Indust ity 900	
Prüfzeichen Test Mark	Geprüft nach Te EN 60950:2	sted acc. to 000		
Zertifiziertes Produkt(Gerät (Product)Certified Product(Product)Ventilator(DC Fan)	ct Identification)			entgelte - Einheit e Fee - Unit
Wie Blatt (As Page) 01 Ergänzung (Addition) Bezeichnung (Type Designation) Z1 steht für (stands for Z2 steht für (stands for Z3 steht für (stands for Z4 steht für (stands for Z5 steht für (stands for Nennspannung (Rated Voltage)	or): X, U, H, M, L or): B, S oder (or) or): 1, 2 oder (or)	-D7Z4 oder (or) D X 3 er (or) D		1 1 1 1 1 1
Nennstrom (Rated Current) Max. Umgebungstemperate (Max. Ambient Temperate	: siehe Anlage (see Appendix) ur : a) 55°C ure) b) 70°C	TÜN Rheini	ate Cambr	7 藏股份有限
ANLAGE (Appendix):	1.19	Formizierun	asielle	一 研發處 7
Dem Zertifikat liegt unsere Prüf- und Z Das Produkt entspricht den o.g. Anford This certificate is based on our Testing fulfills above-mentioned-requirements, the	erungen, die Herstellung wird i and Certification Regulation. T e production is subject to surve	iberwacht. he product illance.	Zertifizierungs	tele 2011.10.26 發行童
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