SPECIFICATION FOR APPROVAL

MODEL NO.: AK1782HB	P.S. (AT)
DESCRIPTION:	
SPEC NO.: SA-0120150105002	
ISSUE DATE: 2018.07.02	
REVISION: F	

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.









ΛDDΛ ADDA CORPORATION

Printed On: 18/07/02

BRUSHLESS AXIAL COOLING FANS

Customer Ref: (RoHS) : Adda Model No **AK1782HB** P.S: (AT) Samples attached Piece(s), UL, CUL, TUV, CE Safety Approval TUV:EN 60335-1:2012+A11 EN 60335-2-80:2003+A1+A2 **UL:UL 507** Specifications CE: EN 55014-1:2006+A1+A2 ITEM SPECIFICATION / CONDITION EN 55014-2:2015 EN 61000-3-2:2014 **DIMENSIONS** 176x176x89 mm EN 61000-3-3:2013 BEARING TYPE TWO BALL RATED VOLTAGE 230 VAC OPERATING VOLTAGE RANGE 200 VAC 240 VAC OPERATIONG FREQUENCY 50 Hz 60 **REAL CURRENT** 0.23 0.21 Amp **REAL POWER** 40.90 49.50 Watt **RATED CURRENT** 0.21 0.23 10% Amp **RATED POWER** 52.90 48.30 Watt 2800 3200 **RPM** 10% RATED SPEED AIR FLOW 330.000 380,000 CFM (min: 297.00 / 342.00 CFM) AIR FLOW 9.345 10.761 CMM (min: 8.411 / 9.685 CMM) / (at zero static pressure) STATIC AIR PRESSURE 0.640 0.811 Inch H₂O (min: 0.52 / 0.66 Inch H₂O) mm H₂O STATIC AIR PRESSURE 16.256 20.574 (min: 13.167 / 16.664 mm H₂O) (at zero air flow) NOISE LEVEL 70.0 66.4 dB(A) (max.: 70.4 / 74.0 dB(A)MOTOR PROTECTION Thermal Protect LIFE EXPECTANCY 50000 Hours **25**℃ /65% RH at **NET WEIGHT** 1800 Gram. **PACKING** pcs. Per Export Carton. 10 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.



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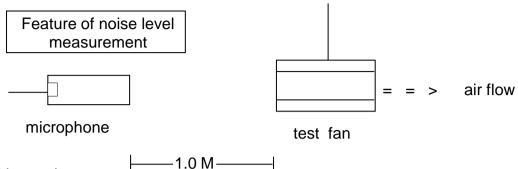
SPECIFICATION

: This documentation defines the mechanical & electrical charcterists 1 · 0 Scope 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 RoHS wire UL 1015, 20 AWG 2 · 4 Connector Not included in this fan. □ Note as: ______ 3 · 0 Dimension & construction : All dimension, direction of rotation and air flow, rated characteristics are specifide 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 in a double-chamber testing with intake-side measurement.



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- 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
 - $5 \cdot 1$ 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 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
- 7 · 0 Environmental
 - 7 · 1 Operating Temperature : 10° C ~ + 70° C
 - $7 \cdot 2$ Humidity RH : $20 \% \sim 85 \%$ (Max)
 - $7\cdot 3\,$ Storage Temperature $\,:\,$ Will satisfy performace standards after 500 $\,$

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

at room temperature.

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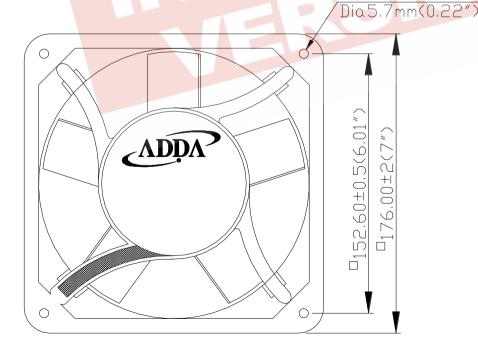
- 7 · 4 Humidity : After 96 hrs, 95 % RH, 40 \pm 2 $^{\circ}$ C per MIL STD 202F, method 103B, Humidity test, The measured data of insulation resistance & dielectric strength should meet the specification listed in attach.
- 7 · 5 Theraml Shock : After thermal shock test per MIL STD 202F, method 107G, condition D, The measured data of insulation resistance & dielectric strength should the specification listed in datasheet.
- 7 · 6 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.

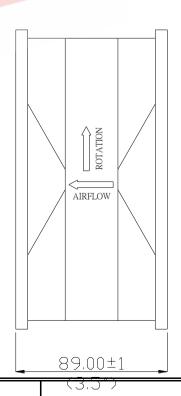
8 · 0 Remark

- 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% ※ 研發處[™]。 2018.07.02 發行章

9 · 0 Drawing





Hole 4*2

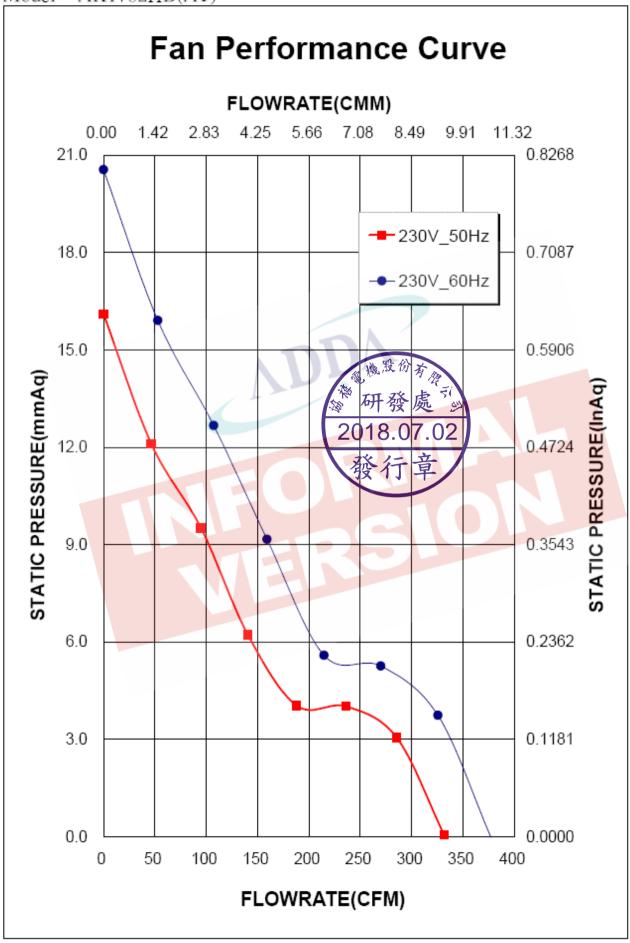
10 ⋅ 0 Notes:

- 10.1 Please do not touch and push Fan Blade with fingers or others, fan blade and ball bearings may be damaged and it causes noise defect.
- 10.2 Do not carry the fan by its lead wires.
- 10.3. Every specific fan is designed for its certain application (project). Therefore, if you want to use this fan in other application (project), please inform ADDA first so that we can confirm whether there is any issue which might be incurred from the reason of this different application (project) or not.
- 10.4 The "Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy in the Test Reports (L10 and MTTF Report) that relate to this fan is for reference only and shall not construe any kind of warranty of ADDA to the life of any specific fan, either expressed or implied.
- 10.5 The period of product warranty, unless otherwise agreed by ADDA in written, shall be 12 months staring from the date of production.





Model: AK1782HB(AT)



Mouser Electronics

Authorized Distributor

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ADDA:

AK1782HB-AT-LF