# SPECIFICATION FOR APPROVAL

MODEL NO.:	AK2072HB	P.S.	(AT)	

**DESCRIPTION:** 

SPEC NO.: SA-0120120613003

ISSUE DATE: 2020.02.17

REVISION: \_G

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 ADDA CORPORATION

Printed On: 20/02/17

Page 1/4

(AT)

## BRUSHLESS AXIAL COOLING FANS

ADDA CORPORATION

Customer	:								Ref:	(RoHS)
Adda Model No	:	AK2072H	lB	P.S:	(AT)					
Samples attached	:		Piece	(s),						
Safety Approval	:	UL,CUL,1	ΓUV, CE	Ī			V:EN 6033			
							60335-2-8 UL 507	0:2	003+A1+A	.2
<u>Specifications</u>						CE:	EN 55014			<b>\2</b>
ITEM SP	ECIF	ICATION	/ CON	<u>DITION</u>			55014-2:2 61000-3-2			
DIMENSIONS	:	205x205x	ĸ72	mm			61000-3-3			
BEARING TYPE	:	TWO BAI	LL							
RATED VOLTAGE	:	230	VAC							
OPERATING VOLTAGE RANGE	:	200	VAC	_	240	VAC				
OPERATIONG FREQUENCY	:	50	1	60	Hz					
REAL CURRENT	:	0.32		0.47	Amp					
REAL POWER	:	63.20	1	95.20	Watt					
RATED CURRENT	: (	0.30	1	0.49	Amp	+	10%			
RATED POWER	:	69.00	1	112.70	Watt					
RATED SPEED	:	2800	1	3200	RPM	±	10%			
AIR FLOW	1:	600.000	1	665.000	CFM	(min:	540.000	/	598.500	CFM)
AIR FLOW	:	16.991	1	18.832	CMM	(min:	15.282	/	16.937	CMM)
			1	(In free a	nir at rated v	oltage)				
STATIC AIR PRESSURE	:	0.930	/	0.500	Inch H <sub>2</sub> O	(min:	0.753	/	0.405	Inch H <sub>2</sub> C
STATIC AIR PRES <mark>SURE</mark>	:	23.622	1	12.700	mm H <sub>2</sub> O	(min:	19.133	/	10.287	mm H <sub>2</sub> O
			/	(In free a	nir at rated v	oltage)				
NOISE LEVEL	:	72.0	/	75.4	dB(A)	(max.:	76.0	/	79.4	dB(A))
MOTOR PROTECTION	:	Thermal		Protect						
LIFE EXPECTANCY	:	50000	Hours	at	<b>25</b> ℃	/ 65%	RH			
NET WEIGHT	:	2100	Gram.						- S	
PACKING	:	6	pcs. F	Per Export	Carton.			1	<b>微股份</b> 有	P
			-	·			<b>黎</b>	石	开發處	到
Unless otherwise stated, the relative	hum	idity is 65%	, and th	e tempera	ture is 25°C		2	02	20.02.	17
for the standard testing. Should you have any doubt, please	refer	to the envir	onmenta	al conditior	ns specified	in the		弘	人仁书	<del>-</del>
acknowledgement document.								55	11 5	

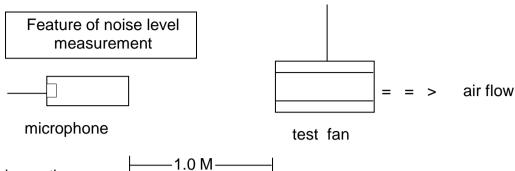
Model No.: AK2072HB

#### **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.

#### **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
  - $5 \cdot 1$  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 $\Omega$  or more at 500 V megger.
  - 6 · 2 Dielectric strength : 1 minute at 1500 VAC / 50-60Hz
- 7 · 0 Environmental
  - 7 · 1 Operating Temperature :  $-10^{\circ}$ C ~  $+70^{\circ}$ 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.

- 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.

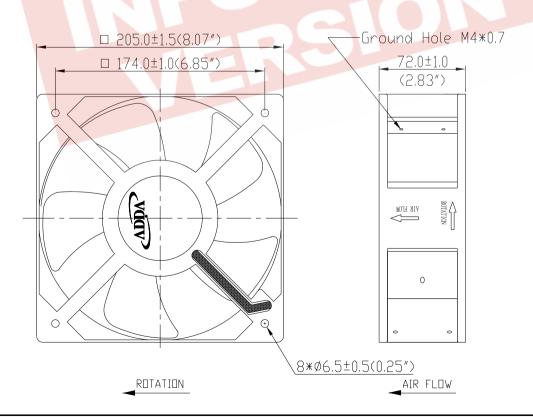
### 8 · 0 Remark

- 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%

9 · 0 Drawing



#### 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.





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