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	SPECIFICATION FOR APPROVAL
	Customer Name:
	APPROVED CHECKED PREPARED DATE DATE DATE 台北研發 102.08.30 白北研發 102.08.30 白北研發 102.08.30 白北研發 102.08.30 白北研發 102.08.30 事名哲 印建宏 白北研發 102.08.30 白北研發 102.08.30 白北研發 102.08.30
	ADDA Model No.: AS08024HB389B00 PS Description: DC FAN (RoHS) REVA
	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 CORPORATION

DATA-SHEET Engineering BRUSHLESS AXIAL COOLING FAN HISTORY:

Α		Approval S	PEC Issued	2013.08.30
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Engineering BRUSHLESS AXIAL COOLING FAN

Customer		Ref: (RoHS)			
Adda Model No		AS08024HB389B00			
Sample Attached		Piece(s)			
Safety Approval		TUV CUL UL CE			
Specifications					
ltem		Specification / Condition			
DIMENSIONS		80 x 80 x 38 mm			
BEARING TYPE		BALL BEARING			
RATED VOLTAGE		24 VDC			
OPERATING VOLTAGE RA	ANGE	14 VDC – 27 VDC			
RATED CURRENT		1.12 (1.5MAX.) Amp.			
RATED POWER		26.88 (36.0MAX.) Watt.			
RATED SPEED : 100% Du	ty	9000 RPM ± 10 %			
		(IN FREE AIR AT RATED VOLTAGE)			
AIR FLOW		133.701 (120.330 MIN.) CFM			
		3.786 (3.407 MIN.) CMM			
STATIC AIR PRESSURE		2.010 (1.028 IVIIN.) INCN-H20 500 308 (405 322 MINL) P2			
		$= \frac{300.330 (403.322 \text{ WINN, FA})}{646 (696 \text{ MAV}) \text{ AP A}}$			
NOISE LEVEL					
		Auto Resian,			
		Polarity Protection			
LIFE EXPECTANCY		70000 Hours at 40°C / 65%			
NET WEIGHT		212 Grams.			
PACKING		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.

1.0 SCOPE

- 1.1 If the information or other related document is inconsistent with this acknowledgment 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 specification.
- 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

- 2.1 Frame : UL94V-0 Glass Filled Polyester (P.B.T)
- 2.2 Fan Blade : UL94V-0 Glass Filled Polyester (P.B.T)
- 2.3 Bearing Sys.: () Sleeve, oil impregnated
 - (V) Two Ball Bearing
 -) One Ball One Sleeve
 -) Hypro Bearing
 -) FDB Bearing
- 2.4 RoHS : (V) YES
- 2.5 HF :()YES

3.0 DIMENSIONS & CONSTRUCTION

All dimensions, direction of rotation and air flow were specified as per drawing attached.

4.0 CHARACTERISTIC & DEFINITION

- 4.1 All rated characteristic 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 clear air.
- 4.7 Air Flow & Static Pressure: The air flow data and static pressure should be determined in accordance with AMCA-210 standard or DIN24163
 - specification in a double chambers testing with intake—side measurement.
- 4.8 Balance value of Rotor compliance to ISO 1940 G6.3.
- 4.9 Noise Level: the measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter room from the air intake. Testing fan shall be hung in clear air.



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Eng	gineer	ring		30th Aug. 2013			
BRI	USHL	ESS AXIAL COOLI	NG FAN				
5.0	MF	CHANICAL INSPE	CTION				
0.0	5.1	Rotation Direction					
	•	Counterclockwise who	en look into impeller side.				
	5.2	Protection					
		All fans have integrate	ed protection against locked rotor conditions so t	hat there will be no			
		damage to winding or	any electronic component.				
		Restarting is automati	ic 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.			
	E 2	Restarting was autom	atic normal as soon as and proved that this fan is	good fan.			
	5.5	No damage shall be fo	ound after 72 hours continuously at condition of r	otation locked			
		Restarting is automati	ic as soon as constraint to running has been relea	sed			
	5.4	Avoid the damage, ch	eck the correct voltage and proper polarity before	connecting with			
		power.					
	5.5	Free Drop Shock					
		In minimum package of	condition, the fan should withstand drops on any t	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 w	hich may have a			
	57	If the fan is reinstalled	a chemical reaction at high humidity	the vibration (or			
	5.7	resonance)	i, please pay special allention to the holse due to				
	5.8	During the testing of t	he fan, please make sure the finger guard is used	for safety.			
6.0	EL						
	6.1	Insulation Resistance					
		Not less than 10M ohr	n between housing and positive end of lead wire (red) at 500VDC.			
	6.2	Dielectric Strength					
		No damage should be	found at 500 VAC for 60 seconds, measured with	1mA trip current			
	63	Life Expectancy	positive end of lead wire.				
	0.5	The continuous duty I	ife at given temperature after which, 90% of testing	a units shall still be			
		running.		J			
	6.4	While the fan is runnin	ng, do not intentionally lock the fan for a long time	e since the			
		overheating of the mo	tor produced by the long-time locking will damag	e the fan.			
7.0	_ EN	VIRONEMENIAL					
	7.1	Improper use such as	disassembling the fan, being covered with dust, o	or dipping the fan			
		In water that results in environment with corr	a defects is not covered in the warranty. Do not us	e the fan in the			
	7.2	Operating Temperatur	e -10 to+ 70 degree c .				
		• • •					
	7.3	Storage Temperature	-40 to+ 75 degree c .				
	7.4	Operating Humidity 5	to 90 % RH .				
	7.5	Storage Humidity 5 t	o 95 % RH .				
		-					
	7.6	Do not place or store	the fan in the environment with high/low temperat	ure/humidity. Do			
		not store the fan for of	ver 6 months; even if the fan is stored in room ten	iperature for over 6			
8 0	RE	MARKS	lave electric current leakage.				
0.0	8 1	Material and construc	tion are subject to change without advance notice	The changes			
	0.1	should be within spec	cification.	. The onangeo			
	8.2	All fan shall meet the	quality inspection under sampling plan MIL-STD-1	05E as follow:			
		Critical 0.25%					
		Major 1.00%					
		winor 2.50%					
		000000					
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11.5 The fan will default to operate at maximum speed when the speed control input is left connected.

12.0 PWM Duty Cycle vs. Speed (at 25KHz, Vcc = 24VDC):

PWM Duty Cycle	0%	20%	50%	100%
Ref. Speed (RPM)	0	1800 ± 20%	4500 ± 15%	9000 ± 10%



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