DELTA ELECTRONICS,	INC.	
252, SHANG YING RC	AD, KUEI SAN	TEL : $886 - (0)3 - 3591968$
TAOYUAN HSIEN 333,	TAIWAN, R. O. C.	FAX : $886 - (0)3 - 3591991$
	SPECIFICATION FOR APP	ROVAL ******
Customer:	STD	
Description:	DC FAN	
Customer P/N:		REV:
Delta Model NO.:	AFB0924SH-A	
Sample Rev:	01	Issue NO:
Sample Issue Date:	JUL.01.2008	Quantity:

1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN.

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	24.0 VDC
OPERATION VOLTAGE	14.0 - 26.4 VDC
START VOLTAGE (ENVIRONMENT TEMPERATURE 25°C)	<pre>< 14.0 VDC.</pre>
INPUT CURRENT	0.40 (MAX. 0.50) A
INPUT POWER	9.60 (MAX. 12.00) W
SPEED (REF.)	4800 R.P.M. REF.
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	2.905 (MIN. 2.614) M ³ /MIN. 102.59 (MIN. 92.33) CFM
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	$\begin{array}{r} 13.35 \hspace{0.1 cm} (\mathrm{MIN.10.81} \hspace{0.1 cm}) \hspace{0.1 cm} \mathrm{mmH}_{2} \mathrm{0} \\ 0.526 \hspace{0.1 cm} (\mathrm{MIN.} \hspace{0.1 cm} 0.426 \hspace{0.1 cm}) \hspace{0.1 cm} \mathrm{inchH}_{2} \mathrm{0} \end{array}$
ACOUSTICAL NOISE (AVG.)	53.0 (MAX. 57.0) dB-A
INSULATION TYPE	UL: CLASS A

(continued)

PART NO:

i.

DELTA MODEL: AFB0924SH-A

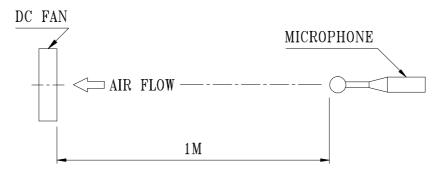
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10 MEG OHM MIN. AT 500 VDC
(BETWEEN FRAME AND (+) TERMINAL)
5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
OPEN TYPE
70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
CLOCKWISE VIEW FROM NAME PLATE SIDE
THE CURRENT WILL SHUT DOWN WHEN LOCKING ROTOR
UL 1007 -F- AWG #24 BLACK WIRE:NEGATIVE(-) RED WIRE:POSITIVE(+)

NOTES: 1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UP THROUGH 10 MINUTES.

2. THE VALUES WRITTEN IN PARENS, (), ARE LIMITED SPEC.

3. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE.

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PART NO:	
DELTA MODEL: AFB0924SH-A	
3. MECHANICAL:	
3-1. DIMENSIONS	SEE DIMENSIONS DRAWING
3–2. FRAME	PLASTIC UL: 94V-0
3-3. IMPELLER	PLASTIC UL: 94V-0
3-4. BEARING SYSTEM	TWO BALL BEARINGS
3-5. WEIGHT	120 GRAMS
4. ENVIRONMENTAL:	
4-1. OPERATING TEMPERATURE	10 TO +70 DEGREE C
4-2. STORAGE TEMPERATURE	40 TO +75 DEGREE C
4-3. OPERATING HUMIDITY	5 TO 90 % RH
4-4. STORAGE HUMIDITY	5 TO 95 % RH
5. PROTECTION:	
5-1. LOCKED ROTOR PROTECTION	
IMPEDANCE OF MOTOR WINDING PROTE HOURS OF LOCKED ROTOR CONDITION A	
5-2. POLARITY PROTECTION	
BE CAPABLE OF WITHSTANDING IF REV. AND NEGATIVE LEADS.	ERSE CONNECTION FOR POSITIVE
6. RE OZONE DEPLETING SUBSTANCES:	
6–1. NO CONTAINING PBBs, PBBOs, CFCs, P	BBEs, PBDPEs AND HCFCs.
7. PRODUCTION LOCATION	
7-1. PRODUCTS WILL BE PRODUCED IN CHIN	JA OR THAILAND OR TAIWAN.

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8. BASIC RELIABILITY REQUIREMENT:

- 8-1. THERMAL CYCLING HIGH TEMPERATURE: -40°C HIGH TEMPERATURE: +80°C SOAK TIME: 30 MINUTES TRANSITION TIME < 5 MINUTES DUTY CYCLES: 5
- 8-2. HUMIDITY EXPOSURE TEMPERATURE: +25°C ~ +65°C HUMIDITY: 90-98% RH @ +65°C FOR 4 HOURS/CYCLE POWER: NON-OPERATING TEST TIME: 168 HOURS
- 8-3. VIBRATION TEMPERATURE: +25°C ORIENTATION: X, Y, Z POWER: NON-OPERATING VIBRATION LEVEL: OVERALL gRMS=3.2

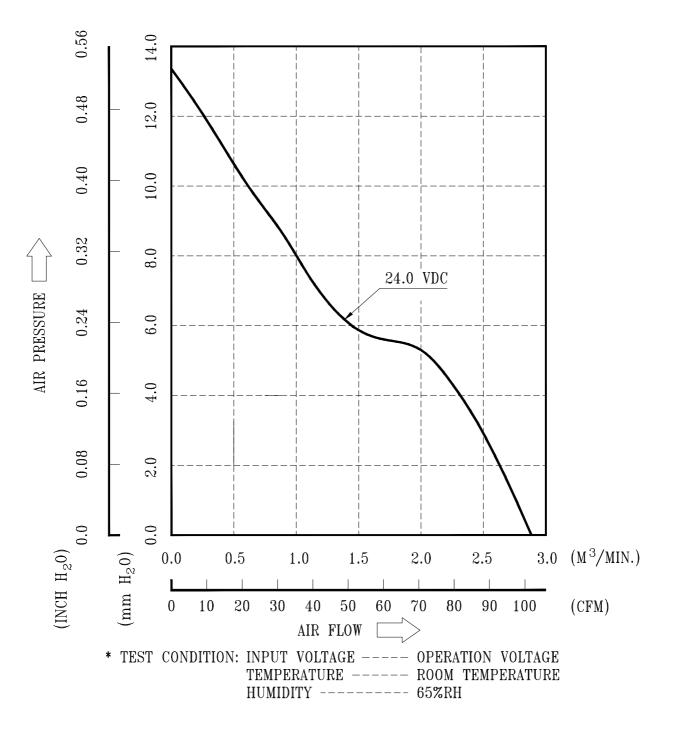
FREQUENCY(Hz)	PSD(G ² /Hz)
10	0.040
20	0.100
40	0.100
800	0.002
1000	0.002

TEST TIME: 2 HOURS ON EACH ORIENTATION

- 8-4. MECHANICAL TEMPERATURE: +20°C SHOCK ORIENTATION: X, Y, Z POWER: NON-OPERATING ACCELERATION: 20 G MIN. PULSE: 11 ms HALF-SINE WAVE NUMBER OF SHOCKS: 5 SHOCKS FOR EACH DIRECTION
- 8-5. LIFE TEMPERATURE: MAX, OPERATING TEMPERATURE POWER: OPERATING DURATION: 1000 HOURS MIN.

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9. P & Q CURVE:



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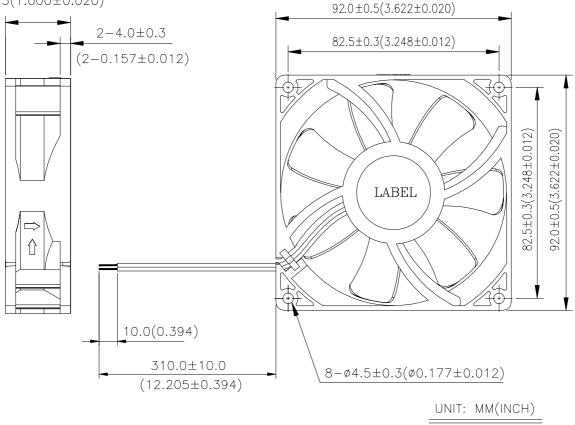
PART NO:		
DELTA MODEL:	AFB0924SH-A	

10. DIMENSION DRAWING:

LABEL:







NOTE: 1.THIS PRODUCT IS RoHS COMPLIANT 2. UL 1007 -F- AWG #24 BLACK WIRE:NEGATIVE(-) RED WIRE:POSITIVE(+)

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- 1. Delta will not guarantee the performance of the products if the application condition falls outside the parameters set forth in the specification.
- 2. A written request should be submitted to Delta prior to approval if deviation from this specification is required.
- 3. Please exercise caution when handling fans. Damage may be caused when pressure is applied to the impeller, if the fans are handled by the lead wires, or if the fans are hard-dropped to the production floor.
- 4. Except as pertains to some special designs, there is no guarantee that the products will be free from any such safety problems or failures as caused by the introduction of powder, droplets of water or encroachment of insect into the hub.
- 5. The above-mentioned conditions are representative of some unique examples and viewed as the first point of reference prior to all other information.
- 6. It is very important to establish the correct polarity before connecting the fan to the power source. Positive (+) and Negative (-). Damage may be caused to the fans if connection is with reverse polarity, as there is no foolproof method to protect against such error.
- 7. Delta fans are not suitable where any corrosive fluids are introduced to their environment.
- 8. Please ensure all fans are stored according to the storage temperature limits specified. Do not store fans in a high humidity environment. We highly recommend performance testing is conducted before shipping, if the fans have been stored over 6 months.
- 9. Not all fans are provided with the Lock Rotor Protection feature. If you impair the rotation of the impeller for the fans that do not have this function, the performance of those fans will lead to failure.
- 10. Please be cautious when mounting the fan. Incorrect mounting of fans may cause excess resonance, vibration and subsequent noise.
- 11. It is important to consider safety when testing the fans. A suitable fan guard should be fitted to the fan to guard against any potential for personal injury.
- 12. Except where specifically stated, all tests are carried out at relative (ambient) temperature and humidity conditions of 25°C, 65%. The test value is only for fan performance itself.
- 13. Be certain to connect an "over 4.7μF" capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.

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