

SPECIFICATION FOR APPROVAL

Customer.				
Description	DC FAN			
Part No		_ REV		
Delta Model No.	AFB0605LC	_ REV	02	
Sample Issue No				
Sample Issue Date.	OCT.21 2015			

PLEASE SEND ONE COPY OF THIS SPECIFICATION BACK AFTER YOU SIGNED APPROVAL FOR PRODUCTION PRE-ARRANGMENT. APPROVED BY: DATE :

DELTA ELECTRONICS, INC. TAOYUAN PLANT 252, SHANG YING ROAD, KUEI SAN INDUSTRIAL ZONE TAOYUAN SHIEN, TAIWAN, R.O.C. TEL:886-(0)3-3591968 FAX:886-(0)3-3591991

DELTA ELECTRONICS, INC. 252, SHANG YING ROAD, KUEI SAN TAOYUAN HSIEN 333, TAIWAN, R. O. C.

TEL : 886-(0)3-3591968 FAX : 886-(0)3-3591991

SPECIFICATION FOR APPROVAL

Customer:		
Description:	DC FAN	
Customer P/N:		REV:
Delta Model NO.:	AFB0605LC	Delta safety model NO.: AFB0605LC
Sample Rev:	02	Issue NO:
Sample Issue Date	:	Quantity:

1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH TWO PHASES AND FOUR POLES.

2. CHARACTERS:

ITEM	DESCRIPTION	
RATED VOLTAGE	5 VDC	
OPERATION VOLTAGE	4.5 - 5.5VDC	
INPUT CURRENT	0.12 (MAX. 0.18) A SAFETY CURRENT ON LABEL : 0.18A	
INPUT POWER	0.60 (MAX. 0.90) W	
SPEED	3000 R.P.M. ±10%	
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	0.436 (MIN. 0.392) M ³ /MIN. 15.40 (MIN. 13.84) CFM	
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	2.11 (MIN. 1.71) mmH ₂ 0 0.083 (MIN. 0.067) inchH ₂ 0	
ACOUSTICAL NOISE (AVG.)	24.0 (MAX. 28.0) dB-A	
INSULATION TYPE	UL: CLASS A	

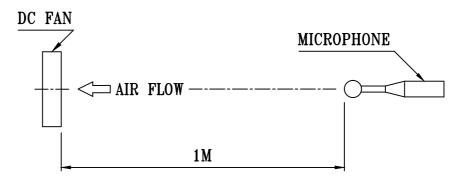
(continued)

DELTA MODEL: AFB0605LC

INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 50/60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
EXTERNAL COVER	OPEN TYPE
LIFE EXPECTANCE	70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN WHEN LOCKING ROTOR
LEAD WIRE	UL 2468 —F— AWG #28 BLACK WIRE NEGATIVE(—) RED WIRE POSITIVE(+)

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

- 2. STANDARD AIR PROPERTY IS AIR AT (Td) 25°C TEMPERATURE, (RH) 65% RELATIVE HUMIDITY, AND (Pb) 760 mmHg BAROMETRIC PRESSURE.
- 3. THE VALUES WRITTEN IN PARENS, (), ARE LIMITED SPEC.
- 4. 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.

DELTA MODEL: AFB0605LC

3. MECHANICAL:

	3-1.	DIMENSIONS	SEE	DIME	NSION	S DI	RAWIN	IG
	3-2.	FRAME		- PL	ASTIC	UL:	94V-	-0
	3-3.	IMPELLER		- PL	ASTIC	UL:	94V-	-0
	3-4.	BEARING SYSTEM		- TWC	BALI	BE	ARINO	SS
	3-5.	WEIGHT			3	3.5	GRAN	í S
4.	ENVI	RONMENTAL:						
	4-1.	OPERATING TEMPERATURE		10 T() +70	DEC	REE	С
	4-2.	STORAGE TEMPERATURE		40 T() +75	DEG	REE	С

- 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 PROTECTS MOTOR FROM FIRE IN 96 HOURS OF LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.

5-2. POLARITY PROTECTION

BE CAPABLE OF WITHSTANDING IF REVERSE CONNECTION FOR POSITIVE AND NEGATIVE LEADS.

6. RE OZONE DEPLETING SUBSTANCES:

6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.7. PRODUCTION LOCATION

7-1. PRODUCTS WILL BE PRODUCED IN CHINA OR THAILAND .

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PART NO: DELTA MODEL: AFB0605LC

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

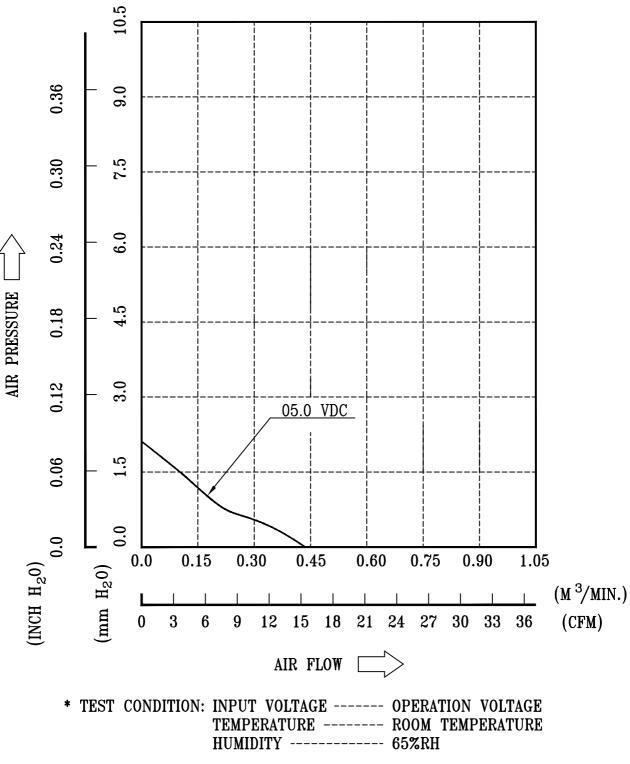
TEST TIME: 2 HOURS ON EACH ORIENTATION

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.

DELTA MODEL: AFB0605LC

9. P & Q CURVE:



page: 5

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DELTA MODEL: AFB0605LC	 DELTA MODEL: AFB0605LC

10. DIMENSION DRAWING:

LABEL:

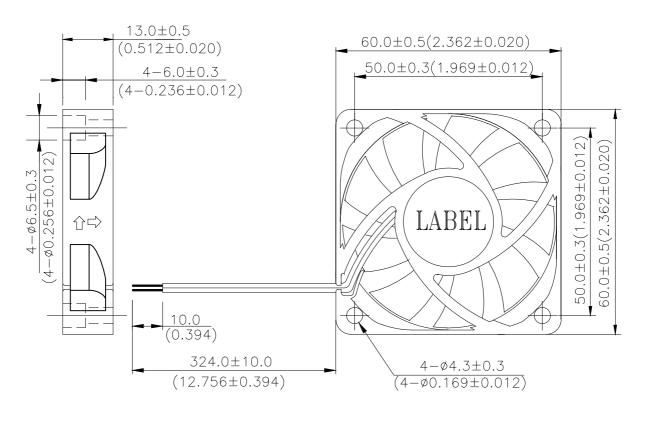




OR



OR



UNIT:mm(INCH)

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UL 2468 -F- AWG #28 BLACK WIRE NEGATIVE(-) RED WIRE POSITIVE(+)

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Application Notice

- **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 fan was 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, if there is no foolproof method to protect against such error specifically mentioned in this spec.
- 7. Delta fans without special protection 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 room (ambient) temperature and relative humidity conditions of 25°C, 65% RH. The test value is only for fan performance itself.
- 13. Be certain to connect an " 4.7μ F or greater" capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.

Mouser Electronics

Authorized Distributor

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AFB0605LC