

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

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 FAX : 886-(0)3-3591991

SPECIFICATION FOR APPROVAL  
 \*\*\*\*\*

Customer:

|                    |               |
|--------------------|---------------|
| Description:       | DC FAN        |
| Customer P/N:      | REV:          |
| Delta Model NO.:   | AFB0412LB-R00 |
| Sample Rev:        | 01            |
| Sample Issue Date: | MAY.26.2006.  |
| Issue NO:          | 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                              | 12 VDC   |
| OPERATION VOLTAGE                          | 7.0 - 13.8 VDC   |
| INPUT CURRENT                              | 0.06 (MAX. 0.09) A   |
| INPUT POWER                                | 0.72 (MAX. 1.08) W   |
| SPEED                                      | 5000 R.P.M.  |
| MAX. AIR FLOW<br>(AT ZERO STATIC PRESSURE) | 0.184 (MIN. 0.166 ) M <sup>3</sup> /MIN.<br>6.50 (MIN. 5.86 ) CFM                |
| MAX. AIR PRESSURE<br>(AT ZERO AIRFLOW)     | 3.67 (MIN. 2.97 ) mmH <sub>2</sub> O<br>0.144 (MIN. 0.117 ) inchH <sub>2</sub> O |
| ACOUSTICAL NOISE (AVG.)                    | 18.5 (MAX. 23.5) dB-A  |
| INSULATION TYPE                            | UL: CLASS A  |

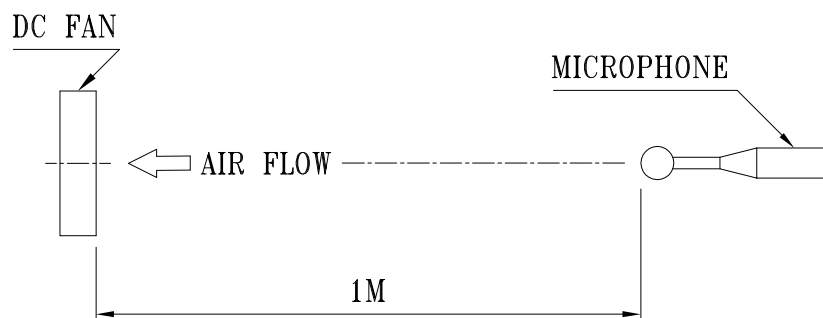
(continued)

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|                     |  |
|---------------------|--|
| INSULATION STRENGTH | 10 MEG OHM MIN. AT 500 VDC<br>(BETWEEN FRAME AND (+) TERMINAL)                                       |
| DIELECTRIC STRENGTH | 5 mA MAX. AT 500 VAC 60 Hz<br>ONE MINUTE, (BETWEEN FRAME AND<br>(+) TERMINAL)                        |
| EXTERNAL COVER      | OPEN TYPE  |
| LIFE EXPECTANCE     | 70,000 HOURS CONTINUOUS OPERATION<br>AT 40 °C WITH 15 ~ 65 %RH.                                      |
| ROTATION            | CLOCKWISE VIEW<br>FROM NAME PLATE SIDE   |
| LEAD WIRE           | UL 1007 -F- AWG #24<br>BLACK WIRE NEGATIVE(-)<br>RED WIRE POSITIVE(+)<br>BLUE WIRE LOCK SIGNAL(-R00) |

- 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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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 ----- 25.0 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 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 OR TAIWAN.

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8. BASIC RELIABILITY REQUIREMENT:

8-1. THERMAL           LOW TEMPERATURE: -40°C  
CYCLING               HIGH TEMPERATURE: +80°C  
                          SOAK TIME: 30 MINUTES  
                          TRANSITION TIME < 5 MINUTES  
                          DUTY CYCLES: 5

8-2. HUMIDITY           TEMPERATURE: +25°C ~ +65°C  
EXPOSURE               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  $g_{RMS}=3.2$

| 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

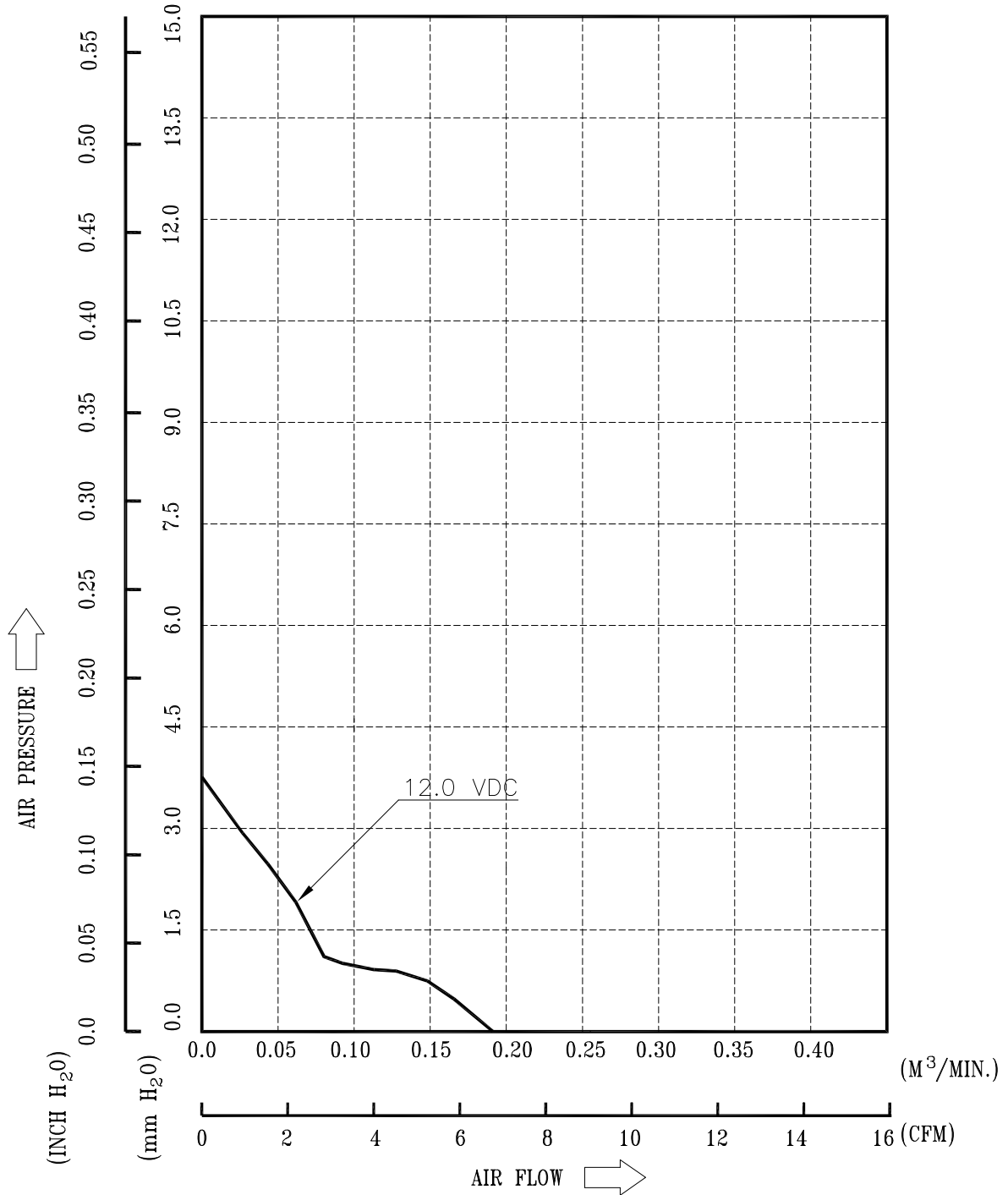
8-4. MECHANICAL       TEMPERATURE: +20°C  
SHOCK                   ORIENTATION: X, Y, Z  
                          POWER: NON-OPERATING  
                          ACCELERATION: 20 G MIN.  
                          PULSE: 11ms HALF-SINE WAVE  
                          NUMBER OF SHOCKS: 5 SHOCKS  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

8-5. LIFE               TEMPERATURE: MAX , OPERATING TEMPERATURE  
                          POWER: OPERATING  
                          DURATION: 1000 HOURS MIN.

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9. P & Q CURVE:



\* TEST CONDITION: INPUT VOLTAGE ----- OPERATION VOLTAGE  
TEMPERATURE ----- ROOM TEMPERATURE  
HUMIDITY ----- 65%RH

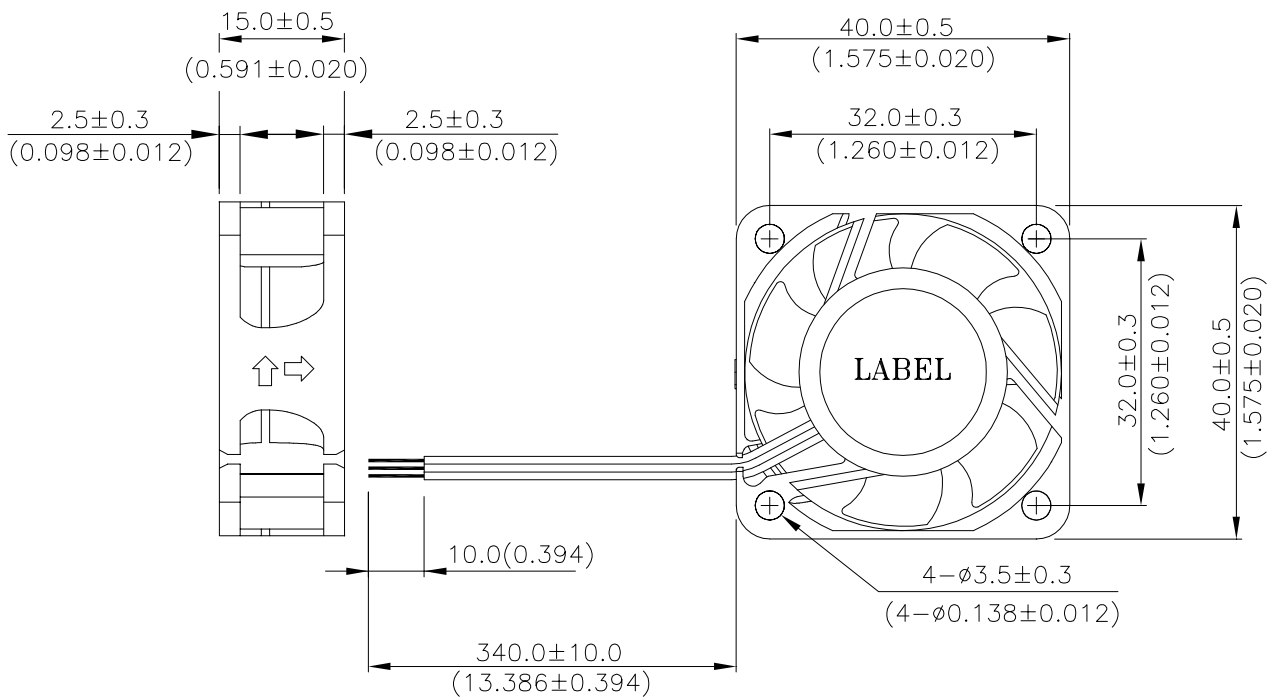
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10. DIMENSION DRAWING:

LABEL:



UNIT:  $\frac{\text{mm}}{(\text{INCH})}$

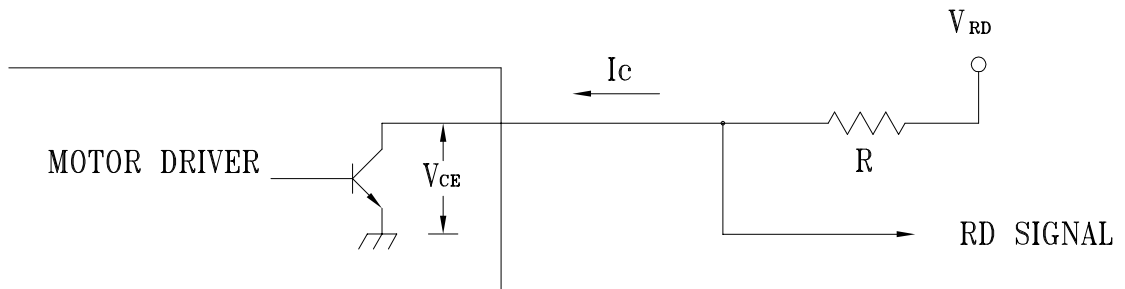
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PART NO:  
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### 11. ROTATION DETECT (RD) SIGNAL:

#### 1. OUTPUT CIRCUIT - OPEN COLLECTOR MODE:



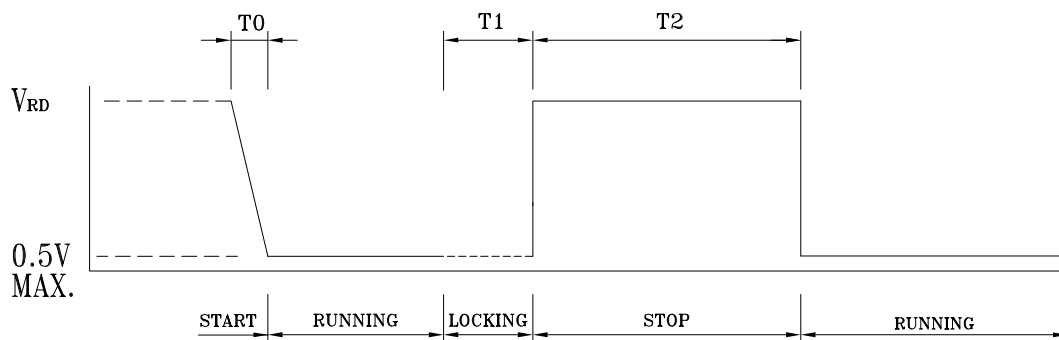
#### CAUTION:

THE LEAD WIRE OF RD SIGNAL CAN NOT TOUCH  
THE LEAD WIRE OF POSITIVE OR NEGATIVE.

#### 2. SPECIFICATION:

$V_{ce}(\text{sat})=0.5\text{V MAX.}$          $V_{RD} =15\text{V MAX.}$   
 $I_c =5\text{mA MAX.}$                  $R \geq V_{RD}/I_c$

#### 3. ROTATION DETECT WAVEFORM:



$T_0=60\text{ns TYP.}$

$T_1=5.5\pm 0.4 \mu\text{s}$

$T_2=1.30\pm 0.4\text{s}$

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## **Descriptions:**

- 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.**





## GPWV2.E132003 Fans, Electric - Component

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### Fans, Electric - Component

[See General Information for Fans, Electric - Component](#)

**DELTA ELECTRONICS INC**

E132003

31-1 SHIEN PAN RD

KUEI SHAN INDUSTRIAL ZONE

TAOYUAN HSIEN, TAIWAN

Model AFB followed by 0405, followed by HA, HHA, LA or MA, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AFB followed by 0505, followed by HB, LB or MB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AFB followed by 0512, followed by HB, HHB, LB or MB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AFB followed by 0605, followed by H, L or M, followed by R00, R05, RR0 or RR05, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AFB followed by 0805, followed by H, L or M; Model AFB followed by 0612, 0624, followed by EH, SH VH; Model AFB0612LB followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AFB followed by 0612, 0624, 0812, 0824, 0912 or 0924, followed by H, HB, HH, HHB, LB, LLB, MB, SHB or VHB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Models ASB0412MA, ASB0412LA, ASB0405MA; Model ASB followed by 0405, 0412, followed by HA, HHA, LA or MA, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model ASB followed by 0505, followed by HB, LB or MB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model ASB followed by 0512, 0524, followed by HB, HHB, LB or MB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model ASB followed by 0812, 0824, followed by HB, HHB, LB, LLB, MB, SHB or VHB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model ASB followed by 0612 or 0624, followed by H, HH, L or M, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model ASB followed by 0812, followed by L or M; Model ASB followed by 0912 or 0924, followed by H, L or M, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AUB followed by 0505, 0512 or 0524, followed by HB, HHB, LB or MB, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AUB followed by 0612, 0624, followed by H, HH, L or M, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AUB followed by 0912, 0924, followed by H, HH, L, M or VH, followed by (Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank; Model AUB followed by 0612 or 0624, followed by L, M, H

HH, VH, SH; Model EUB or ESB followed by 0912 or 0924, followed by L, M, H, HH, VH.

Models TYF 300, BFB followed by 0712, followed by HD(Y) or LD(Y), where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models X0405Y(Y), X0412Q(Y), ASB0405Y(Y), ASB0412Y(Y), EFB0412MA-SM(Y). where X may be EFB, ESB or EUB, Y may be HA, HHA, LA or MA, Q may be HA, HHA, LA, MA or VHA, (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models X0405Y, X0412R, Z0424R, X04505LA, X04505MA, X04512LA, X04512MA, X04512HA, where X may be AFB, ASB or AUB, Y may be HB, HHB, LB or MB, R may be HB, HHB, LB, MB, SHB or VHB.

Model 5F175.

Models AFB0712X, AFB0724X, where X may be HC, HHC, LC or MC; Models Y0712Q, Y0724Q, where Y may be AFB, ASB or AUB, Q may be HB, HHB, LB, LLB or MB.

Models HUB0705Y, HUB0712Q, HUB0724Q, HUB0805Y, HUB0812Q, HUB0824Q, where Y may be H, L or M, Q may be H, HH, L or M.

Models AFC12(X)(W)E(Y), AFC1212DE-SP(Y) series, where (X) may be 12, 24, 48, (W) may be A, B or D, (Y) may be xxxxx where x may be A through Z, 0 through 9, "-" or blank.

Models AFB0605(X)C, AFB06(Y)(Z)C series, where(X) may be L, M, H, (Y) may be 12, 24, (Z) may be L, M, H, HH, VH.

Models AUB12(X)(Y), ASB12(X)(Y) series, where (X) may be 12 or 24, (Y) may be L, M, H, HH, VH.

Models GFB0405Y, GSB0405Y, GUB0405Y, GFB0412Q, GSB0412Q, GUB0412Q, GFB0424Q, GSB0424Q, GUB0424Q, where Y may be HF, HHF or MF, Q may be HF, HHF, MF or VHF, may be suffixed with alphanumeric characters.

Models GFC0812CG, GSC0812CG, GUC0812CG, GFC0824CG, GSC0824CG, GUC0824CG, GSB0812Y, GFB0812Y, GUB0812Y, GSB0824Y, GFB0824Y, GUB0824Y, where Y may be HHG, SHG or VHG.

Models FFC0912D(Y), FFC0924A (Y), FFC0924B (Y), FFB0912HH (Y), FFB0912VH (Y), FFB0912SH (Y), FFB0924HH (Y), FFB0924VH (Y), FFC0948B(Y), FFB0948HH (Y), FFB0948VH (Y) series, where (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models EFC0912BF, EFC0924AE, EFC0924BE.

Model BFC0848D.

Model (X)09(Y)(Z), where (X) may be AFB, AUB or ASB, (Y) may be 12 or 24,(Z) may be LD, MD, HD, HHD or VHD.

Model EFC1748DG-S41P.



# CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 091949\_0\_000  
Class No: 3812 01 FANS AND BLOWERS

## SUBMITTOR

4510824 Delta Electronics, Inc.  
31-1 Shien Pam Rd  
Kuei Shan Industrial Zone  
Taoyuan Hsien, 333  
Taiwan

## FACTORIES

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Wujiang, Jiangsu  
China

4678360 Delta Electronics (Thailand) Public  
Co., Ltd.  
111 Moo 9 Wellgrow Ind Estate  
Bangna-Trad Road, Bangpakong

|            |    |     |               |
|------------|----|-----|---------------|
| ASB0712HB  | 12 | 330 | STD, F00, R00 |
| ASB0712HHB | 12 | 450 | STD, F00, R00 |
| ASB0724LLB | 24 | 100 | STD, F00, R00 |
| ASB0724LB  | 24 | 110 | STD, F00, R00 |
| ASB0724MB  | 24 | 140 | STD, F00, R00 |
| ASB0724HB  | 24 | 210 | STD, F00, R00 |
| ASB0724HHB | 24 | 250 | STD, F00, R00 |
| ASB0724LLB | 24 | 100 | STD, F00, R00 |
| ASB0724LB  | 24 | 110 | STD, F00, R00 |
| ASB0724MB  | 24 | 140 | STD, F00, R00 |
| ASB0724HB  | 24 | 210 | STD, F00, R00 |
| ASB0724HHB | 24 | 250 | STD, F00, R00 |
| AUB0712LLB | 12 | 120 | STD, F00, R00 |
| AUB0712LB  | 12 | 140 | STD, F00, R00 |
| AUB0712MB  | 12 | 240 | STD, F00, R00 |
| AUB0712HB  | 12 | 330 | STD, F00, R00 |
| AUB0712HHB | 12 | 450 | STD, F00, R00 |
| AUB0724LLB | 24 | 100 | STD, F00, R00 |
| AUB0724LB  | 24 | 110 | STD, F00, R00 |
| AUB0724MB  | 24 | 140 | STD, F00, R00 |
| AUB0724HB  | 24 | 210 | STD, F00, R00 |
| AUB0724HHB | 24 | 250 | STD, F00, R00 |
| AFB0405LB  | 5  | 200 | STD, F00, R00 |
| AFB0405MB  | 5  | 250 | STD, F00, R00 |
| AFB0405HB  | 5  | 380 | STD, F00, R00 |
| AFB0405HHB | 5  | 450 | STD, F00, R00 |
| AFB0412LB  | 12 | 90  | STD, F00, R00 |
| AFB0412MB  | 12 | 130 | STD, F00, R00 |
| AFB0412HB  | 12 | 160 | STD, F00, R00 |
| AFB0412HHB | 12 | 200 | STD, F00, R00 |
| AFB0412VHB | 12 | 240 | STD, F00, R00 |
| AFB0412SHB | 12 | 350 | STD, F00, R00 |
| AFB0424LB  | 24 | 80  | STD, F00, R00 |
| AFB0424MB  | 24 | 90  | STD, F00, R00 |
| AFB0424HB  | 24 | 120 | STD, F00, R00 |
| AFB0424HHB | 24 | 130 | STD, F00, R00 |
| AFB0424VHB | 24 | 150 | STD, F00, R00 |
| AFB0424SHB | 24 | 180 | STD, F00, R00 |
| AUB0405LB  | 5  | 200 | STD, F00, R00 |
| AUB0405MB  | 5  | 250 | STD, F00, R00 |

# VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /  
Licence No. / page  
128374 4

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Licence holder*  
Delta Electronics Inc., 186 Ruey Kuang Road, NEIHU TAIPEI (114), TAIWAN

Aktenzeichen / *File ref.*  
1164100-2611-0003 / 50141 / FG13 / S

letzte Änderung / *updated* Datum / *Date*  
2004-09-30 2000-05-26

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 128374.  
*This supplement is only valid in conjunction with page 1 of the Licence No. 128374.*

|                                      |        |        |
|--------------------------------------|--------|--------|
| FFC1248DE                            | DC 48V |        |
| FFC1248CE                            | DC 48V |        |
| BFC1212C-STD/F00/F05/F05R            | DC 12V |        |
| BFC1212C-R00/R05/R05R/RR0/RR05/RR05R | DC 12V | DC 12V |
| BFC1224C-STD/F00/F05/F05R            | DC 24V |        |
| BFC1224C-R00/R05/R05R/RR0/RR05/RR05R | DC 24V | DC 24V |
| BFC1248C-STD/F00/F05/F05R            | DC 48V |        |
| BFC1248C-R00/R05/R05R/RR0/RR05/RR05R | DC 48V | DC 48V |
| AFB0605LC/MC/HC                      | DC 5V  |        |
| AFB0612LC/MC/HC/HHC/VHC              | DC 12V |        |
| AFB0624LC/MC/HC/HHC/VHC              | DC 24V |        |
| EUB/ESB0912L/M/H/HH/VH               | DC 12V |        |
| EUB/ESB0924L/M/H/HH/VH               | DC 24V |        |
| AUB/ASB1212L/M/H/HH/VH/SH            | DC 12V |        |
| AUB/ASB1224L/M/H/HH/VH/SH            | DC 24V |        |
| AFB/AUB/ASB0405LB/MB/HB/HHB          | DC 5V  |        |
| AFB/AUB/ASB0412LB/MB/HB/HHB/VHB/SHB  | DC 12V | DC 12V |
| AFB/AUB/ASB0424LB/MB/HB/HHB/VHB/SHB  | DC 24V | DC 24V |
| AFB/AUB/ASB04505LA/MA                | DC 5V  |        |
| AFB/AUB/ASB04512LA/MA/HA             | DC 12V |        |
| EFB/EUB/ESB0405LA/MA/HA/HHA          | DC 5V  |        |
| EFB/EUB/ESB0412LA/MA/HA/HHA/VHA      | DC 12V | DC 12V |
| HUB0705/0805L/M/H                    | DC 5V  |        |
| HUB0712/0812L/M/H/HH                 | DC 12V |        |
| HUB0724/0824L/M/H/HH                 | DC 24V |        |
| KFB1012MS/HS/HHS                     | DC 12V |        |
| KFB1024MS/HS/HHS                     | DC 24V |        |
| KFB1048MS/HS/HHS                     | DC 48V |        |
| KFC1012DS                            | DC 12V |        |
| KFC1024DS                            | DC 24V |        |
| KFC1048DS                            | DC 48V |        |
| AFB0712LLB/LB/MB/HB/HHB/LC/MC/HC/HHC | DC 12V | DC 12V |
| AFB0724LLB/LB/MB/HB/HHB/LC/MC/HC/HHC | DC 24V | DC 24V |
| AUB/ASB0712LLB/LB/MB/HB/HHB          | DC 12V |        |
| AUB/ASB0724LLB/LB/MB/HB/HHB          | DC 24V |        |
| AFC1212/AE/BE/DE                     | DC 12V |        |
| AFC1224/AE/BE/DE                     | DC 24V |        |
| AFC1248/AE/BE/DE                     | DC 48V |        |
| GFB0405MF/HF/HHF                     | DC 5V  |        |
| GSB0405MF/HF/HHF                     | DC 5V  |        |
| GUB0405MF/HF/HHF                     | DC 5V  |        |

Fortsetzung siehe Blatt 5 /  
*continued on page 5*

