

| Customer | | |
|-----------------------|-----------------|----------------|
| Description | DC FAN | |
| Part No. | | Rev |
| Delta Model No. | FFB1224XHE-TM50 | Rev. <u>00</u> |
| Sample Issue No. | | |
| Sample Issue Date. | Jan 21, 10 | |

| | E COPY OF THIS SPECIFICATION SIGNED APPROVAL FOR PRODUC-MENT. |
|-------------|---|
| APPROVED BY | : |
| DATE | : |

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED.

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CHACHEONGSAO 24180 THAILAND.

SPECIFICATION FOR APPROVAL

| Customer: | | |
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| Description: | DC FAN | |
| Customer P/N: | | REV: |
| Delta Model NO.: | FFB1224XHE-TM50 | |
| Sample Rev: | 00 | Issue NO: |
| Sample Issue Date: | Jan 21, 10 | 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 VDC | |
| OPERATION VOLTAGE | 14.0 - 26.4 VDC | |
| INPUT CURRENT | 3.25 (MAX. 3.90) A | |
| INPUT POWER | 78.0 (MAX. 93.6) W | |
| SPEED | 6300±10% R.P.M. | |
| MAX. AIR FLOW (AT ZERO STATIC PRESSURE) | 7.493 (MIN. 6.744) M ³ /MIN. 264.62 (MIN. 238.16) CFM | |
| MAX.AIR PRESSURE (AT ZERO AIRFLOW) | 43.31 (MIN. 35.08) mmH ₂ 0 1.705 (MIN. 1.381) inchH ₂ 0 | |
| ACOUSTICAL NOISE (AVG.) | 73.5 (MAX. 77.5) dB-A | |
| INSULATION TYPE | UL: CLASS A | |
| L´ | <u>-</u> | |

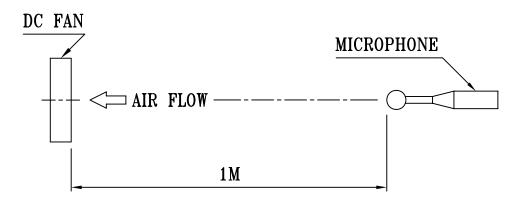
(continued)

PART NO:

DELTA MODEL: FFB1224XHE-TM50

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|------------------------|---|--|
| INSULATION STRENGTH | 10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL) | |
| DIELECTRIC STRENGTH | 5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL) | |
| EXTERNAL COVER | OPEN TYPE | |
| LIFE EXPECTANCE | 80,000 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 | |
| STARTING PROTECTION | START AT LOW SPEED , AFTER 10 SEC RUNNING AT FULL SPEED | |
| LEAD WIRE | UL 1007 -F- AWG #22 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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| DADT NO. | | |
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| PART NO: | | |
| DELTA MODEL: FFB1224XHE-TM50 | | |
| 3. MECHANICAL: | | |
| 3-1. DIMENSIONS | SEE DIMENSIONS DRAWING | |
| 3-2. FRAME | DIE-CAST ALUMINUM | |
| 3-3. IMPELLER | PLASTIC UL: 94V-0 | |
| 3-4. BEARING SYSTEM | TWO BALL BEARING | |
| 3-5. WEIGHT | 470 GRAMS | |
| 3-6. INGRESS PROTECTION | IP55 | |
| 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 REVER AND NEGATIVE LEADS. | SE CONNECTION FOR POSITIVE | |
| 6. RE OZONE DEPLETING SUBSTANCES: | | |
| 6-1. NO CONTAINING PBBs, PBB0s, CFCs, PBB | BEs, PBDPEs AND HCFCs. | |
| 7. PRODUCTION LOCATION | | |

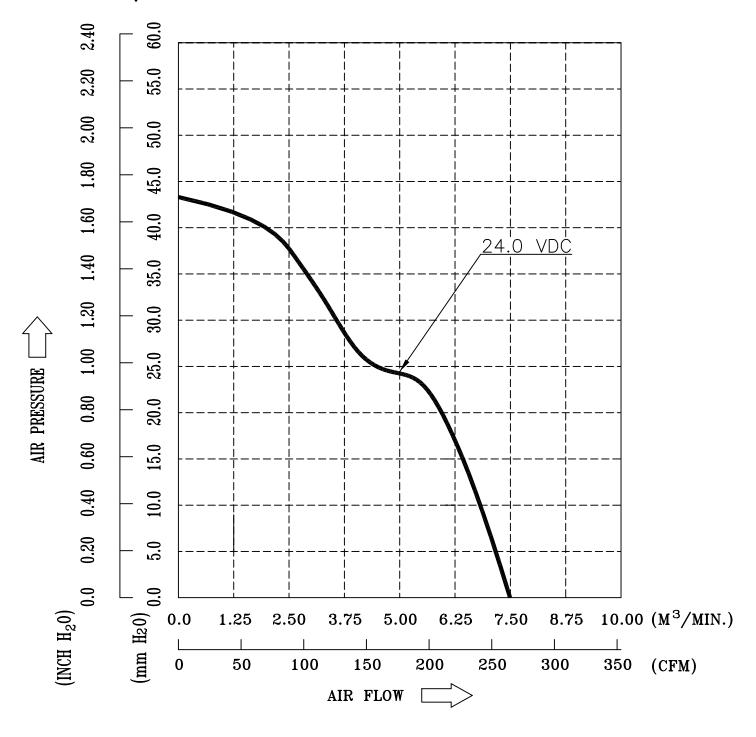
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7-1. PRODUCTS WILL BE PRODUCED IN CHINA OR THAILAND OR TAIWAN.

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8. P & Q CURVE:



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

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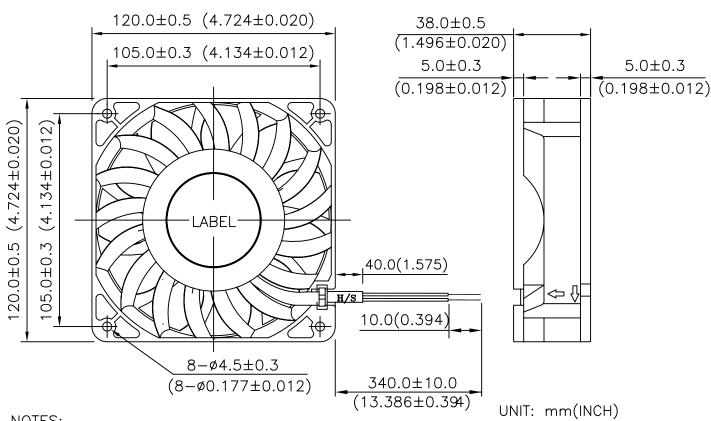
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9. DIMENSION DRAWING:

LABEL:





NOTES:

- 1. WIRE: UL1007 AWG#22 RED WIRE----(+) BLACK WIRE----(-)
- 2. FOR IP55 PROTECTION, THE MOTOR(PWB+WINDING ASSY) MUST COATED BY PARYLENE WITH THICKNESS 0.005mm. (REF.) DELTA P/N 4020158300
- 3. THIS PRODUCT IS ROHS COMPLIANT

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