



SPECIFICATION FOR APPROVAL

Customer. _____

Description. _____ DC FAN

Part No. _____ REV. _____

Delta Model No. _____ ASB0312LA-C REV. _____ 01

Sample Issue No. _____

Sample Issue Date. _____ JAN.19 2016

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

APPROVED BY:

DATE :

DELTA ELECTRONICS, INC.

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SPECIFICATION FOR APPROVAL

Customer:

Description: DC FAN

Customer P/N:

REV:

Delta Model NO.: ASB0312LA-C

Delta safety model NO.: ASB0312LA-C

Sample Rev: 01

Issue NO:

Sample Issue Date:

Quantity:

1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS BLOWER. THE BLOWER MOTOR IS WITH SINGLE PHASE AND FOUR POLES.

2. CHARACTERS:

| ITEM | DESCRIPTION |
|--|---|
| RATED VOLTAGE | 12 VDC |
| OPERATION VOLTAGE | 7.0 - 13.8 VDC |
| INPUT CURRENT | 0.05 (MAX. 0.10) A SAFETY CURRENT ON LABEL : 0.10A |
| INPUT POWER | 0.60 (MAX. 1.20) W |
| SPEED | 8000±15% R.P.M. |
| MAX. AIR FLOW (AT ZERO STATIC PRESSURE) | 0.091 (MIN. 0.077) M ³ / MIN. 3.21 (MIN. 2.73) CFM |
| MAX. AIR PRESSURE (AT ZERO AIRFLOW) | 3.33 (MIN. 2.40) mmH ₂ O 0.131 (MIN. 0.094) inchH ₂ O |
| ACOUSTICAL NOISE (AVG.) | 21.0 (MAX. 25.5) dB-A |
| INSULATION TYPE | UL: CLASS A |

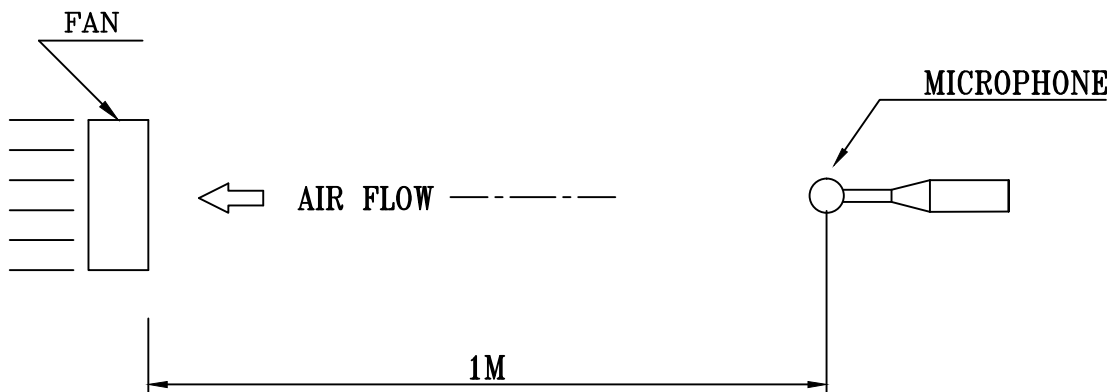
(continued)

PART NO:

DELTA MODEL: ASB0312LA-C

| | |
|---|--|
| 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 (L10) AT LABEL VOLTAGE | 20,000 HOURS CONTINUOUS OPERATION AT 40°C WITH 65 %RH. |
| ROTATION | COUNTERCLOCKWISE DIRECTION FROM FRONT VIEW OF AIR FLOW INLET |
| INSULATION TYPE | UL: CLASS A |
| LEAD WIRE | UL 1061 AWG #26 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.

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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 ----- SLEEVE BEARING
3-5. WEIGHT ----- 7.4(REF.) 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 .

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8. RELIABILITY:

8-1. THERMAL CYCLING LOW 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 $g_{RMS}=3.2$

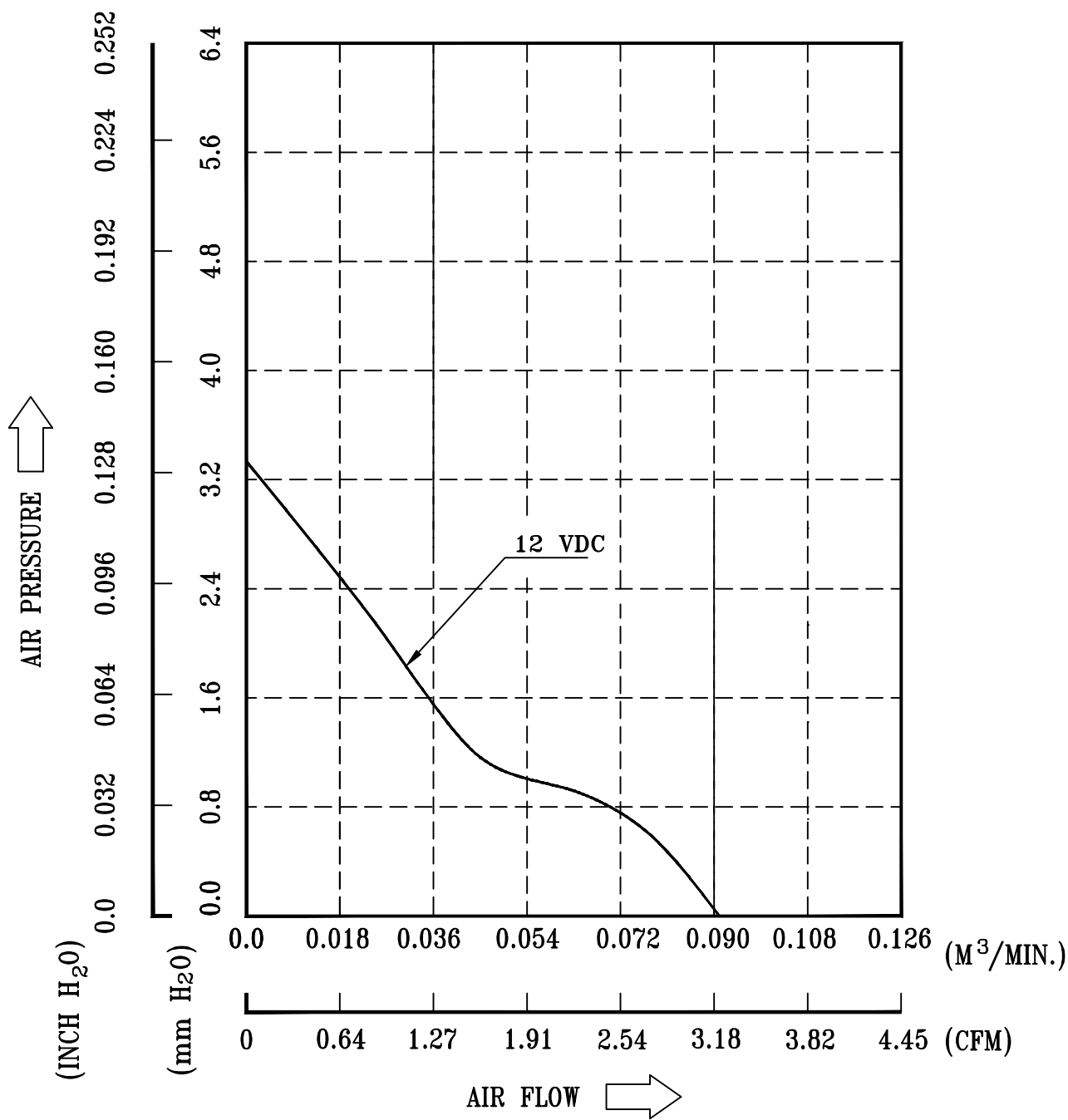
| FREQUENCY(Hz) | PSD(G^2/Hz) |
|---------------|-----------------|
| 10 | 0.040 |
| 20 | 0.100 |
| 40 | 0.100 |
| 800 | 0.002 |
| 1000 | 0.002 |

TEST TIME: 2 HOURS ON EACH ORIENTATION

8-4. MECHANICAL SHOCK TEMPERATURE: +20°C
 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

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9. P & Q CURVE:



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

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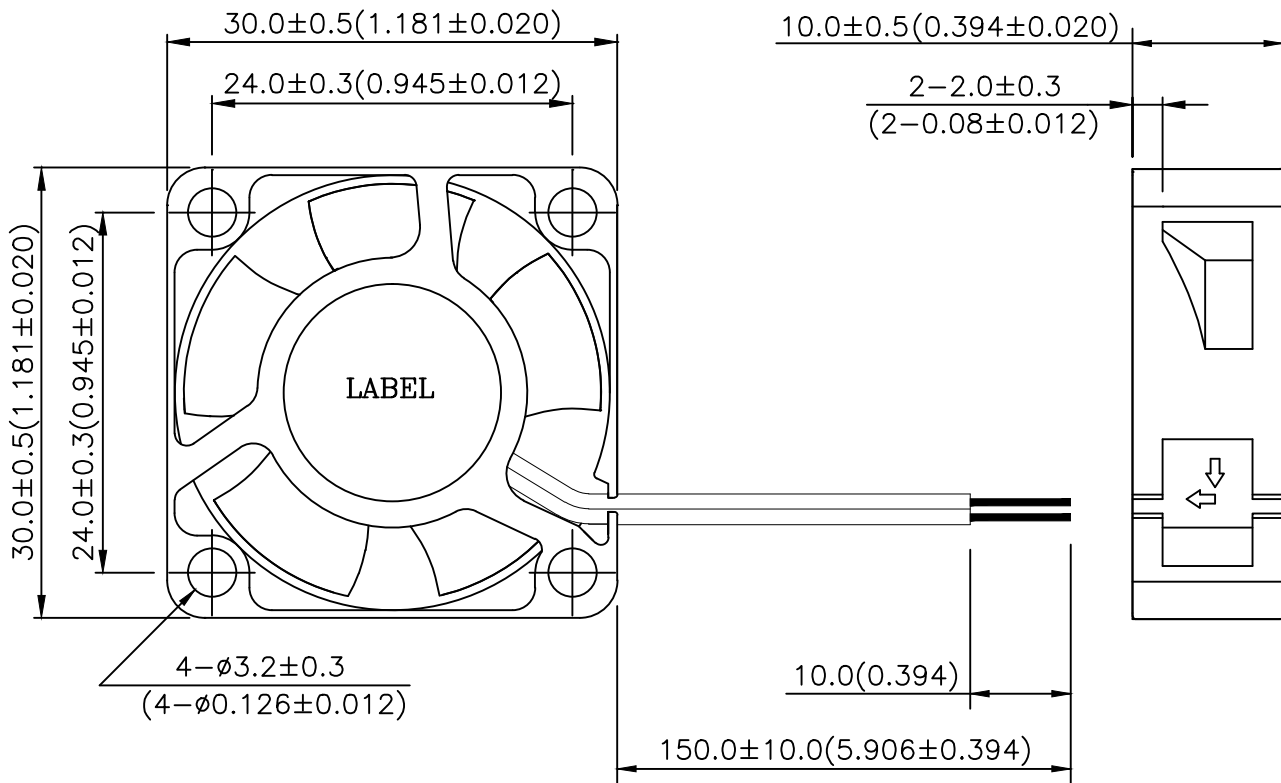
10. DIMENSION DRAWING:



OR



OR



UNIT: mm(INCH)

- NOTES:
1. THIS PRODUCT IS RoHS COMPLIANT
 2. UL 1061 -F- AWG #26
BLACK WIRE NEGATIVE(-)
RED WIRE POSITIVE(+)

Mouser Electronics

Authorized Distributor

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