



SPECIFICATION FOR APPROVED

Customer : STD
Description : EST FAN (Energy Saving Technology Fan)
Customer Part No. _____ REV. : _____
Delta Model No. : AFL12AUHE-CGQ5 REV. : 00
Sample Issue No. : _____
Sample Issue Date : Mar.08 2021

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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STATEMENT OF DEVIATION

☒ NONE

☐ DESCRIPTION:

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SPECIFICATION FOR APPROVED

Customer : STD

Description : EST FAN (Energy Saving Technology Fan)

Customer P/N : rev. :

Delta model no. : AFL12AUHE-CGQ5 Delta Safety Model No.: AFL12AUHE-C

Sample revision. : 00 Issue no.:

Sample issue date : Mar.08 2020 Quantity :

1. SCOPE:

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

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE (VAC)	100 ~ 240 (50 / 60Hz)
OPERATION VOLTAGE	115 OR 230 VAC
INPUT POWER ★ (TEST UNDER FREE AIR)	4.6 W TYP SAFETY WATTS ON LABEL : 4.6 W
SPEED	3200 R.P.M. (REF.)
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	2.93 M ³ /MIN. (TYP.) 103.6 CFM (TYP.)
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	10.16 mmH ₂ O (TYP.) 0.40 inchH ₂ O (TYP.)
ACOUSTICAL NOISE (AVG.)	45 (MAX. 49) dB-A
INSULATION TYPE	UL: CLASS B

★AVG. IS THE AVERAGE VALUE DURING STEADY OPERATION, AND MAX. IS MAXIMUM AVERAGE VALUE INCLUDED PRODUCTION TOLERANCE. ABOUT THE PEAK VALUE, NEED TO USE OSCILLOSCOPE TO MEASURE.

(continued)

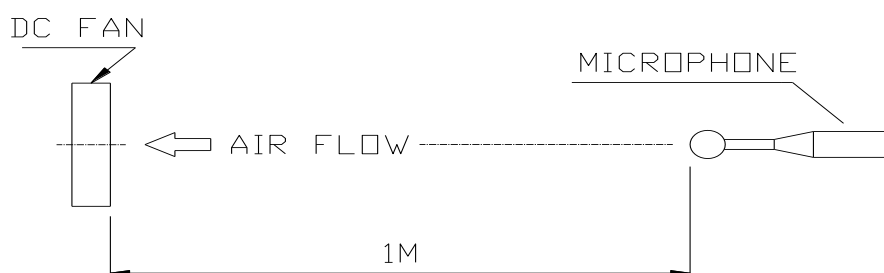
PART NO:

DELTA MODEL: AFL12AUHE-CGQ5

LIFE EXPECTANCE (L10) (AT LABEL VOLTAGE)	70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
ROTATION	COUNTER CLOCK WISE DIRECTIONS FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN, WHEN ROTOR LOCKED AND FIXED.
LEAD WIRE	UL 3266 AWG #24 125°C/ 300V BLUE WIRE (N) BROWN WIRE (L)

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 SEMI-ANECHOIC CHAMBER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE.

PART NO:

DELTA MODEL: AFL12AUHE-CGQ5

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-----275 GRAMS(REF.)

3-6. INGRESS PROTECTION :

POTTING OR COATING PROCESS IS USED FOR STATOR & PCB ASSEMBLY PROTECTION. THE FAN IS TESTED A RATING OF IP55 UNDER IEC STANDARD 60529. DETAILED TEST CONDITION PLEASE FIND IN DELTA TEST REPORT.

4. ENVIRONMENTAL:

4-1. OPERATING TEMPERATURE----- -40 TO +60 DEGREE C

4-2. STORAGE TEMPERATURE----- -40 TO +85 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.

6. RE OZONE DEPLETING SUBSTANCES:

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

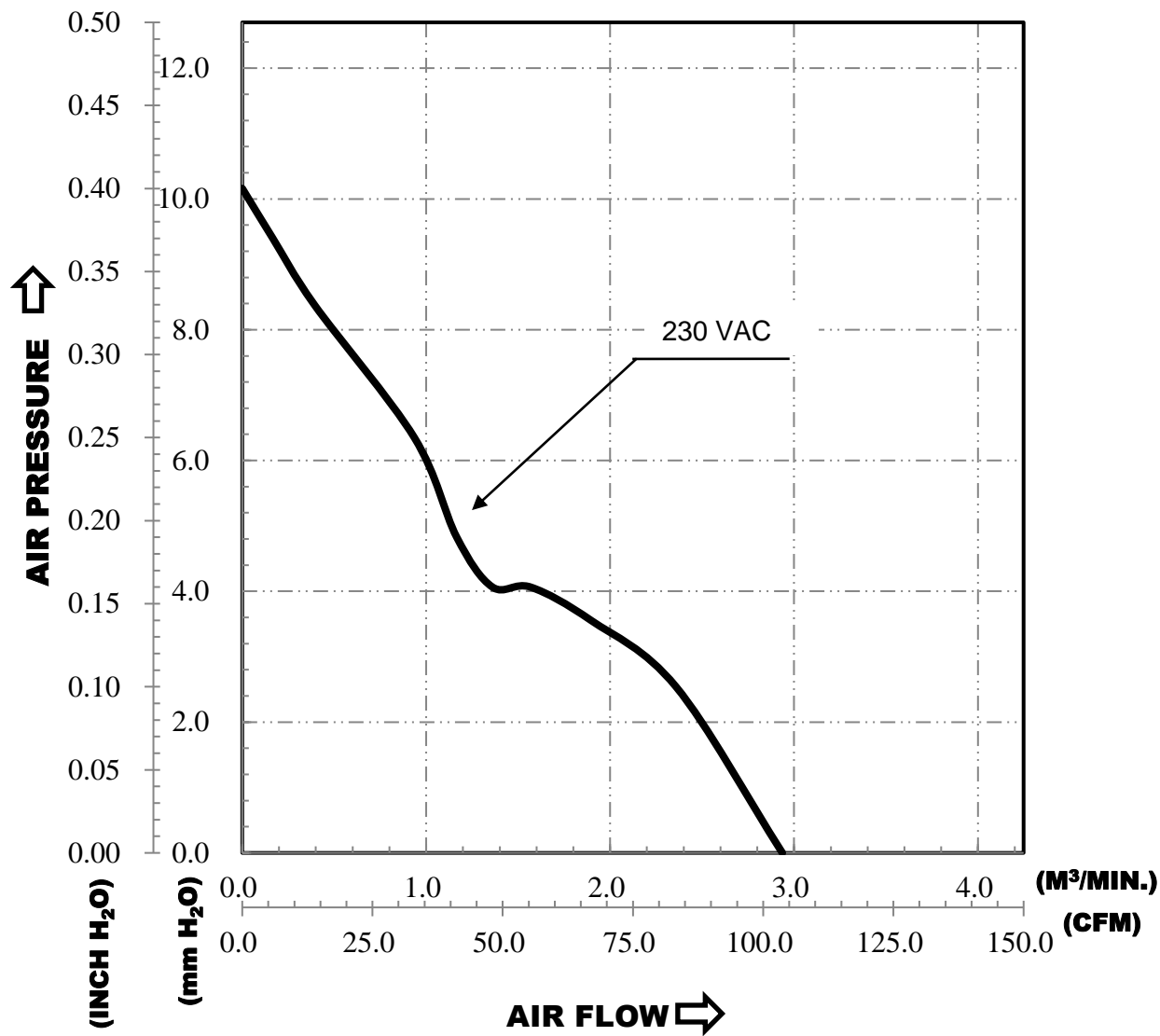
7. PRODUCTION LOCATION

7-1. PRODUCTS WILL BE PRODUCED IN CHINA.

PART NO:

DELTA MODEL: AFL12AUHE-CGQ5

8. P & Q CURVE:

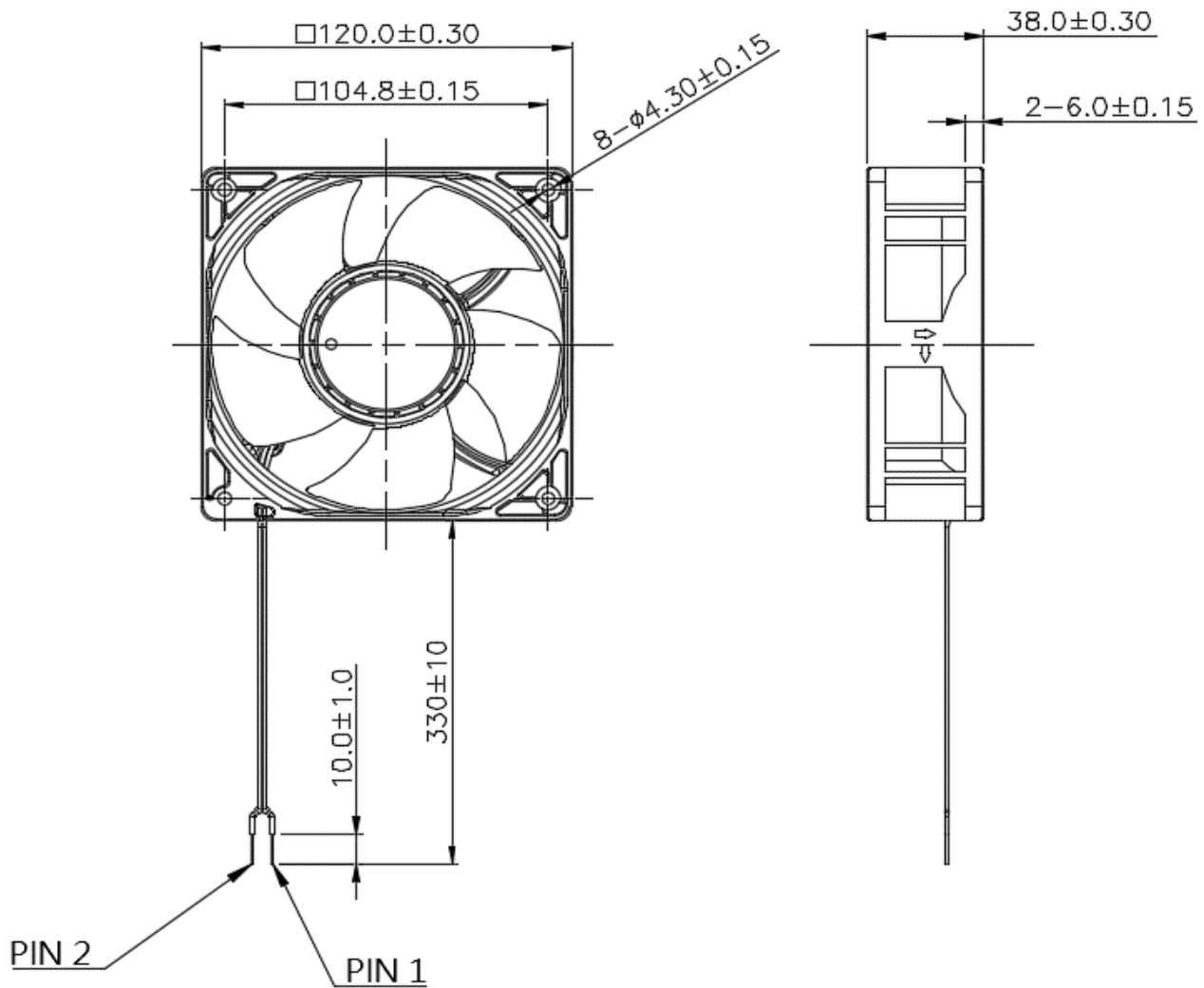


*TEST CONDITION: INPUT VOLTAGE-----OPERATION VOLTAGE
TEMPERATURE-----ROOM TEMPERATURE
HUMIDITY-----65%RH

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9. DIMENSION DRAWING:



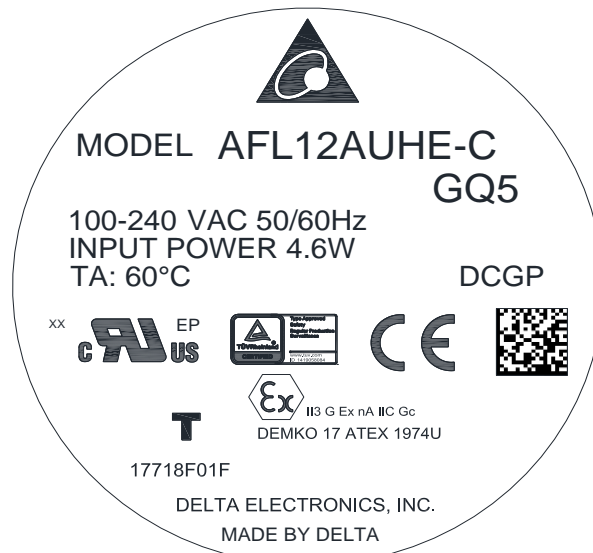
UNIT: mm

LEAD WIRE: UL 3266 AWG #24 125°C/ 300V
BLUE WIRE (N)
BROWN WIRE (L)

PART NO:

DELTA MODEL: AFL12AUHE-CGQ5

10. LABEL:





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. Delta fans without special protection are not suitable where any corrosive fluids are introduced to their environment.**
- 7. 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.**
- 8. 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.**
- 9. Please be cautious when mounting the fan. Incorrect mounting of fans may cause excess resonance, vibration and subsequent noise.**
- 10. 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.**
- 11. 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.**

Mouser Electronics

Authorized Distributor

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[AFL12AUME-CGQ5](#)