



## SPECIFICATION FOR APPROVAL

Customer : \_\_\_\_\_  
Description : DC FAN \_\_\_\_\_  
Customer Part No. \_\_\_\_\_ REV. : \_\_\_\_\_  
Delta Model No. : AUB0712HH-C \_\_\_\_\_ REV. : 00 \_\_\_\_\_  
Sample Issue No. : \_\_\_\_\_  
Sample Issue Date : May.03 2021 \_\_\_\_\_

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, SHANGYING ROAD, GUISHAN INDUSTRIAL ZONE,  
TAOYUAN CITY 33341, TAIWAN  
TEL:886-(0)3-3591968  
FAX:886-(0)3-3591991

DELTA ELECTRONICS, INC.  
252, SHANGYING ROAD, GUISHAN INDUSTRIAL ZONE,  
TAOYUAN CITY 33341, TAIWAN

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

## **STATEMENT OF DEVIATION**

NONE

DESCRIPTION:

DELTA ELECTRONICS, INC.  
252, SHANGYING ROAD, GUISHAN INDUSTRIAL ZONE,  
TAOYUAN CITY 33341, TAIWAN

TEL : 886-(0)3-3591968  
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## Specification For Approval

Customer :

Description : DC FAN

Customer P/N :

rev. :

Delta model no. : AUB0712HH-C

Delta Safety Model No.: AUB0712HH-C

Sample revision. : 00

Issue no.:

Sample issue date : May.03 2021

Quantity :

### 1. SCOPE:

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

### 2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	12.0 VDC
OPERATION VOLTAGE	5.0 - 13.2 VDC
MIN. START VOLTAGE	7.0 VDC (MAX.)
INPUT CURRENT(AVG.) ★ (TEST UNDER FREE AIR)	0.25 (MAX. 0.40) A SAFETY CURRENT ON LABEL : 0.40A
INPUT POWER(AVG.) ★ (TEST UNDER FREE AIR)	3.00 (MAX. 4.80) W
SPEED	4500 ± 10% R.P.M.
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	1.037 (MIN. 0.933) M <sup>3</sup> /MIN. 36.60 (MIN. 32.94) CFM
MAX. AIR PRESSURE (AT ZERO AIR FLOW)	7.32 (MIN. 5.93) mmH <sub>2</sub> O 0.288 (MIN. 0.233) inchH <sub>2</sub> O
ACOUSTICAL NOISE (AVG.)	40.5 (MAX. 44.5) dB-A
INSULATION TYPE	UL: CLASS A
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)

★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)

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PART NO:

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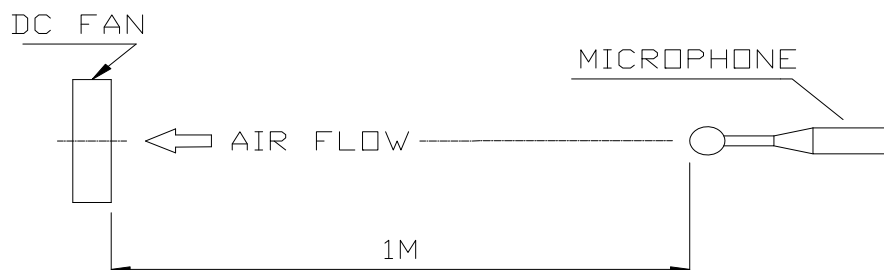
DELTA MODEL: AUB0712HH-C

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LIFE EXPECTANCE (L10) (AT LABEL VOLTAGE)	50,000 HOURS CONTINUOUS OPERATION AT 40 ° C WITH 15 ~ 65 %RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
LOCKED PROTECTION	THE CURRENT WILL SHUT DOWN, WHEN ROTOR LOCKED AND FIXED.

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.

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PART NO:

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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----- 60.0 (REF.) GRAMS

4. ENVIRONMENTAL:

- 4-1. OPERATING TEMPERATURE----- -10 TO +85 DEGREE C
- 4-2. STORAGE TEMPERATURE----- -40 TO +90 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.

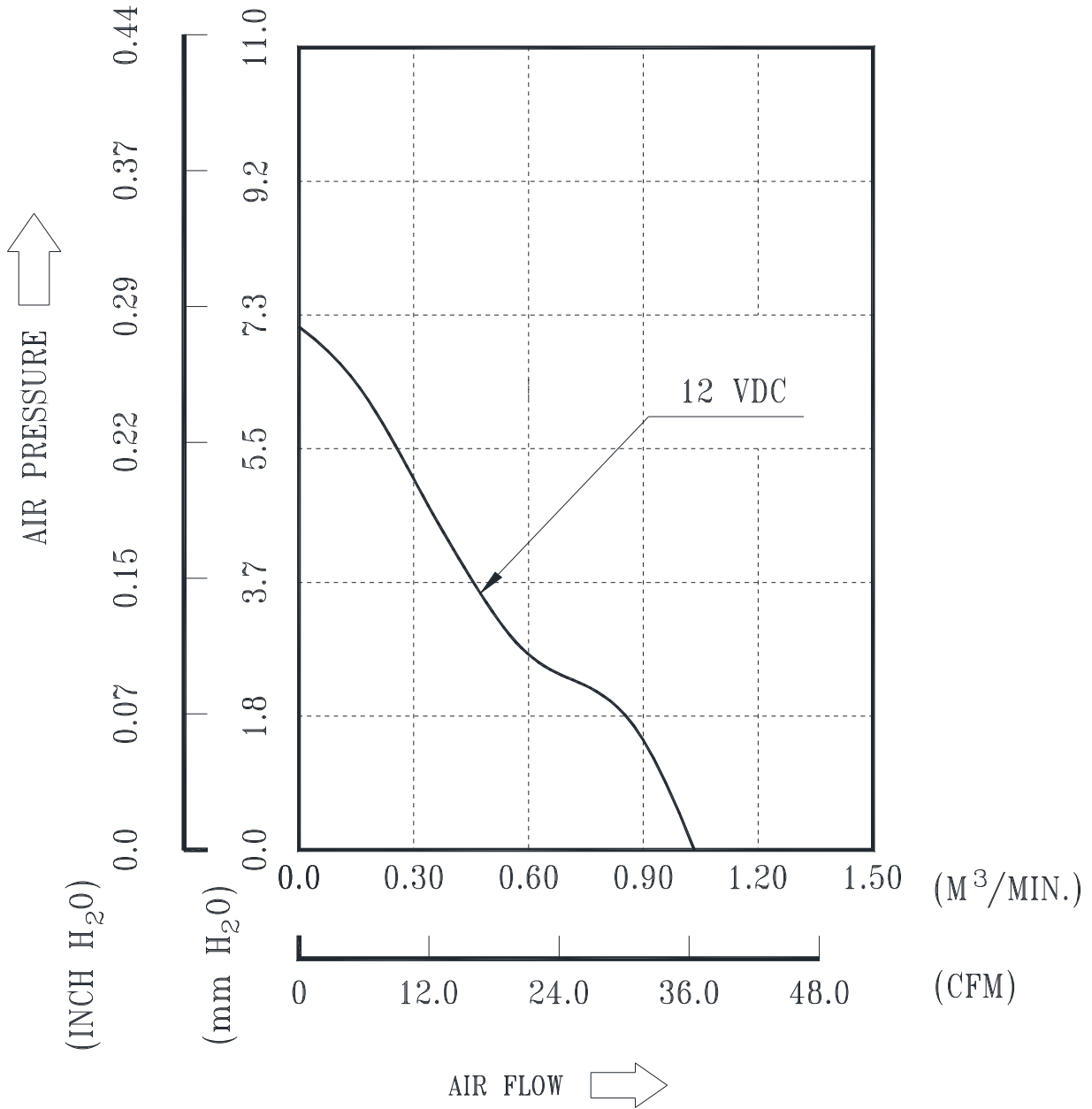
7. PRODUCTION LOCATION

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

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8. P & Q CURVE:

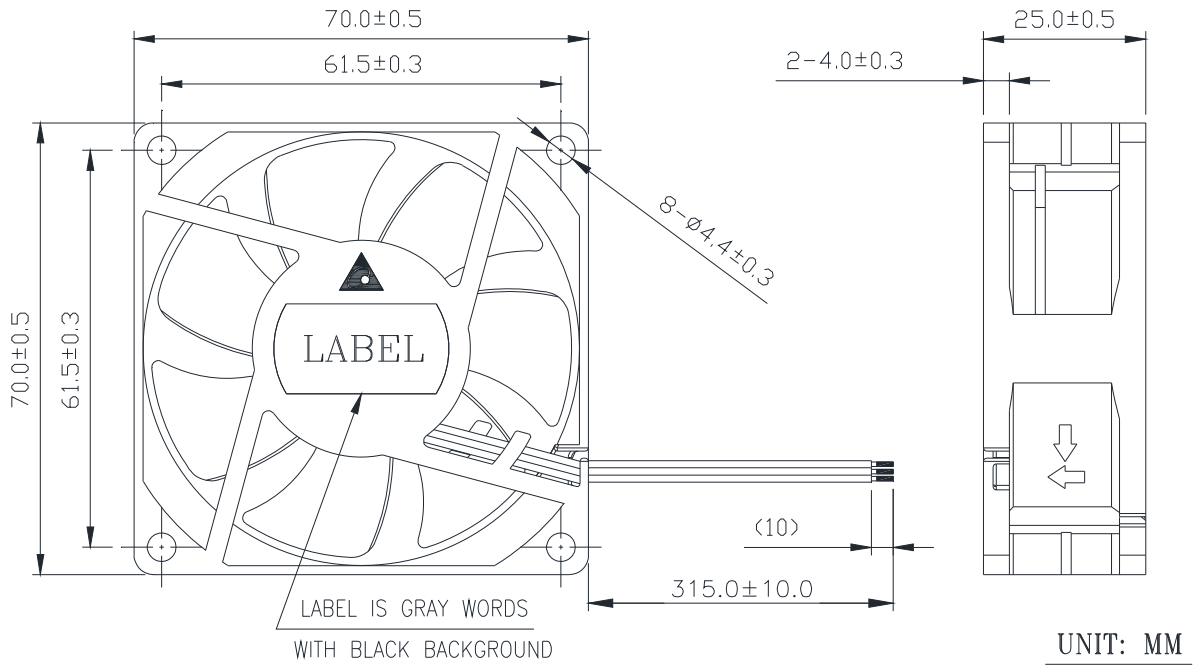


\*TEST CONDITION: INPUT VOLTAGE-----OPERATION VOLTAGE  
TEMPERATURE-----ROOM TEMPERATURE  
HUMIDITY-----65%RH

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9. DIMENSION DRAWING:



NOTES:

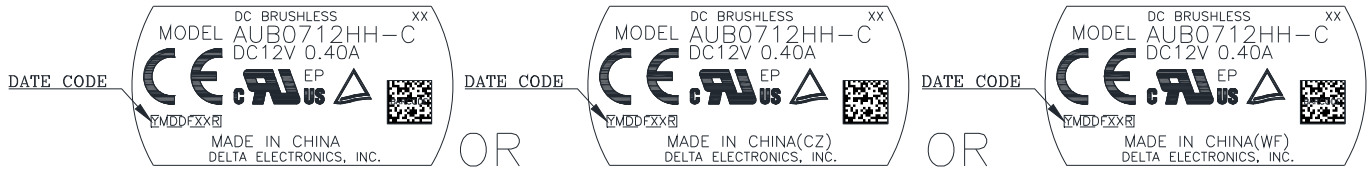
1. LEAD WIRE: UL 3302 AWG #28  
RED WIRE-----(+)  
BLACK WIRE-----(-)  
BLUE WIRE----- (F00)

2.THIS PRODUCT IS ROHS COMPLIANT.

PART NO:

DELTA MODEL: AUB0712HH-C

LABEL:



THE POSITION OF DATE CODE FOR REFERENCE , DATE CODE NUMBER REFER TO BELOW LIST:

THE FORMAT FOR THE DATE CODE		
Y	YEAR	"0" FOR 2010, "1" FOR 2011, ET AL.
M	MONTH	1-9 IS JAN-SEP, X IS OCT, Y IS NOV, Z IS DEC
DD	DAY	01-31 MEANS DATE OF MONTH
FXX	LINE	"F1" MEANS NO.1 PRODUCTION LINE, "F2" MEANS NO.2 PRODUCTION LINE, "FXX" MEANS NO.XX PRODUCTION LINE,ET AL.
R	PRODUCE CONDITION	"R": MEANS THE FAN CONFORM TO RoHS COMPLIANCE.

2D BARCODE



SCAN



BARCODE

AUB0712HH-CA0YYMDSSSSS

(DATA MATRIX)

BARCODE INFORMATION REFER TO BELOW LIST:

THE FORMAT FOR THE BARCODE		
AUB0712HH-C	P/N	DELTA MODEL NAME.
A0	VENDOR	"A0" MEANS DELTA.
YY	YEAR	"10" FOR 2010, "11" FOR 2011, ET AL.
M	MONTH	1-9 IS JAN-SEP, A IS OCT, B IS NOV, C IS DEC.
D	DATE	1-9 IS 1st-9th, A IS 10th, B IS 11th, ET AL. (NOT INCLUDED I, J, O and Q.)
SSSSS	SERIAL NUMBER	FROM 00001 TO 99999.

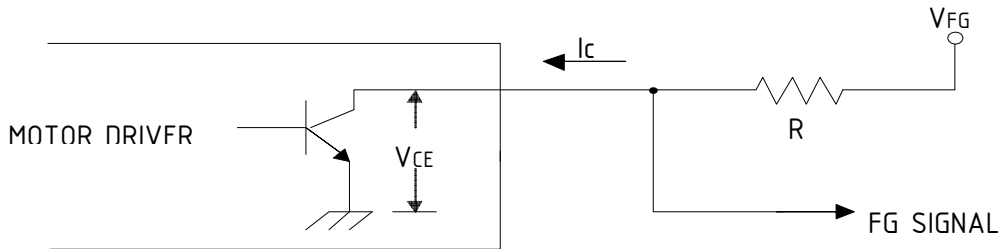


PART NO:

DELTA MODEL: AUB0712HH-C

10.FREQUENCY GENERATOR (FG) SIGNAL:

10-1. OUTPUT CIRCUIT - OPEN COLLECTOR MODE



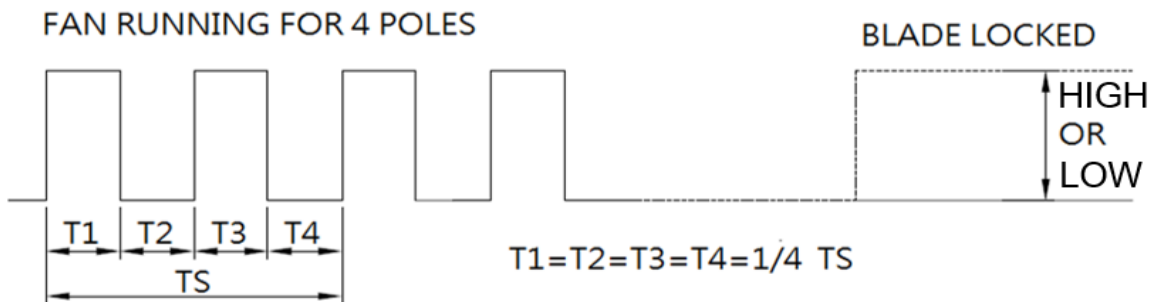
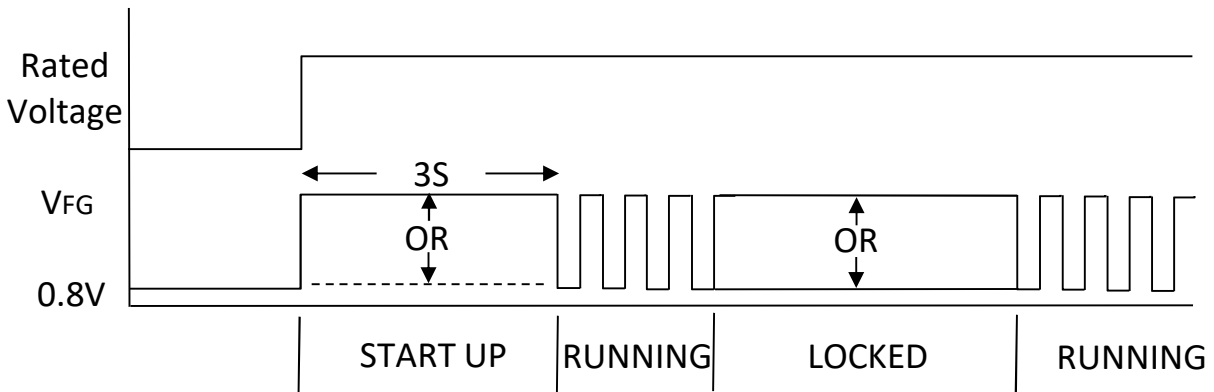
CAUTION:

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

10-2. SPECIFICATION:

$V_{FG} = 5$  TYP. ( $V_{CC}$  MAX.)      $I_c = 5\text{mA}$  MAX.  
 $V_{CE} = 0.8\text{V}$  MAX.      $R \geq V_{FG} / I_c$

10-3. FREQUENCY GENERATOR WAVEFORM:



$N = \text{R.P.M}$

$T_S = 60/N(\text{SEC})$

\* $V_{FG}$  IS ALWAYS HIGH OR LOW LEVEL AFTER BLADE LOCKED

\*4 POLES