

SPECIFICATION FOR APPROVAL

Cuctoffici :	
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 SPECI	
YOU SIGNED APPROVAL FOR PRODUCTION	ON PRE-ARRANGMENT.
APPROVED BY:	
7.1 1 NO VED D1.	
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

Customer:

STATEMENT OF DEVIATION

TEL: 886-(0)3-3591968

FAX: 886-(0)3-3591991

■ NONE □ DESCRIPTION:			

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

Specification For Approval

TEL: 886-(0)3-3591968

FAX: 886-(0)3-3591991

Customer :			
Description :	DC F	AN	
Customer P/N	:		rev.:
Delta model n	o. : Al	JB0712HH-C	Delta Safety Model No.: AUB0712HH-C
Sample revision	on. :	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	1.037 (MIN. 0.933) M ³ /MIN.
(AT ZERO STATIC PRESSURE)	36.60 (MIN. 32.94) CFM
MAX. AIR PRESSURE	7.32 (MIN. 5.93) mmH ₂ O
(AT ZERO AIR FLOW)	0.288 (MIN. 0.233) inchH ₂ 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)

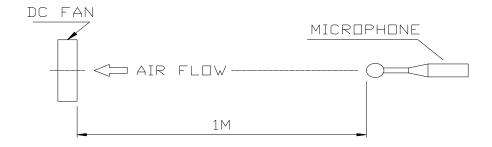
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DELTA MODEL: AUB0712HH-C

LIFE EXPECTANCE (L10) (AT LABEL VOLTAGE)	50,000 HOURS CONTINUOUS OPERATION AT 40 $^{\circ}$ C WITH 15 \sim 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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DELTA MODEL: AUB0712HH-C

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:

4.4 ODEDATING TEMPEDATURE	10 TO 105 DECDEE C
4-1. OPERATING TEMPERATURE	
4-2. STORAGE TEMPERATURE	
4-3. OPERATING HUMIDITY	5 TO 90 % RH
4-4. STORAGE HUMIDITY	5 TO 95 % RH

5. PROTECTION:

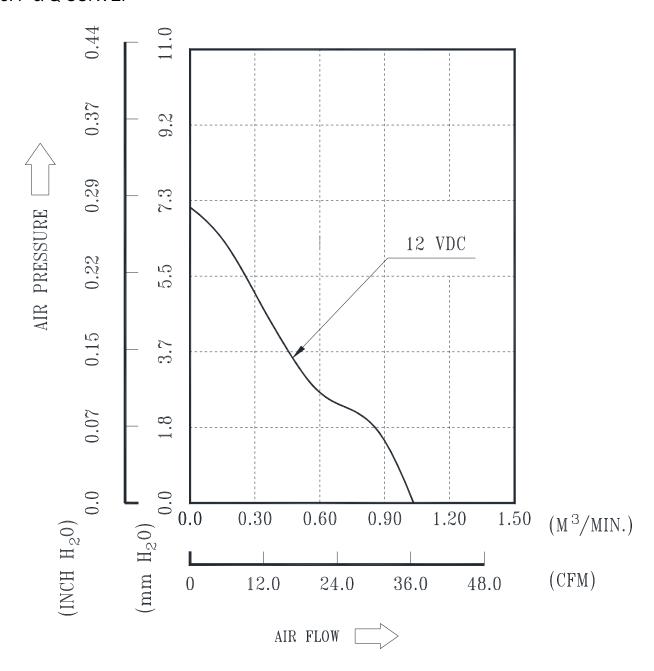
- 5-1. LOCKED ROTOR PROTECTION
 IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM FIRE IN
 96 HOURS OF LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.
- 5-2. POLARITY PROTECTION

 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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DELTA MODEL: AUB0712HH-C

8. P & Q CURVE:

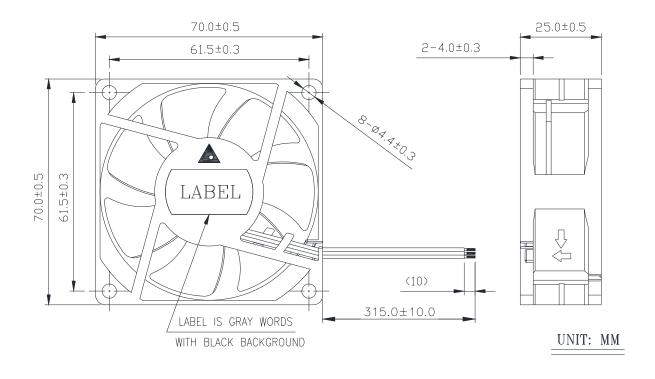


*TEST CONDITION: INPUT VOLTAGE-----OPERATION VOLTAGE TEMPERATURE-----ROOM TEMPERATURE HUMIDITY-----65%RH

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DELTA MODEL: AUB0712HH-C

9. DIMENSION DRAWING:



NOTES:

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

2.THIS PRODUCT IS ROHS COMPLIANT.

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

2D BARCODEBARCODE



SCAN

AUB0712HH-CA0YYMDSSSSS

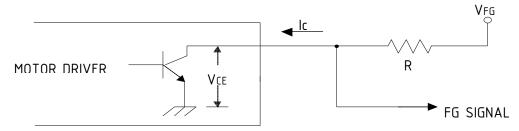
(DATA MATRIX)
BARCODE INFORMATION REFER TO BELOW LIST:

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.
М	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.
	DATE	(NOT INCLUDED I, J, O and Q.)
SSSSS	SERIAL NUMBER	FROM 00001 TO 99999.

DELTA MODEL: AUB0712HH-C

10.FREQUENCY GENERATOR (FG) SIGNAL:

10-1. OUTPUT CIRCUIT - OPEN COLLECTOR MODE



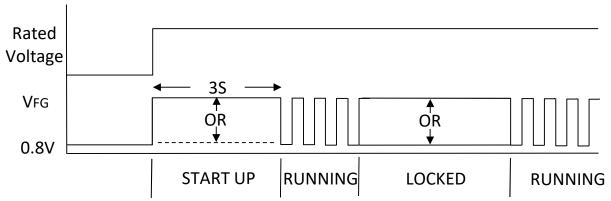
CAUTION:

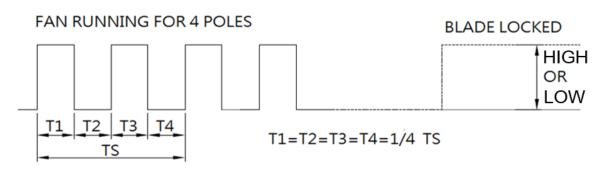
THE LEAD WIRE OF FG SIGNAL CAN NOT TOUCH THE LEAD WIRE OF POSITIVE OR NEGATIVE.

10-2. SPECIFICATION:

VFG= 5 TYP. (Vcc MAX.) Ic = 5mA MAX. Vce= 0.8V MAX. $R \ge V$ FG /Ic

10-3. FREQUENCY GENERATOR WAVEFORM:





N=R.P.M

TS=60/N(SEC)

*VFG IS ALWAYS HIGH OR LOW LEVEL AFTER BLADE LOCKED

*4 POLES



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. 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, if there is no foolproof method to protect against such error specifically mentioned in this spec.
- 7. Delta fans without special protection 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 room (ambient) temperature and relative humidity conditions of 25°C, 65% RH. The test value is only for fan performance itself.
- 13. Be certain to connect an "4.7μF or greater" capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.

Doc. No: FMBG-ES Form 001 Rev. 0001 Date: June 24, 2009

Mouser Electronics

Authorized Distributor

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Delta Electronics: