



SPECIFICATION FOR APPROVAL

Customer. _____

Description. DC FAN

Part No. _____ REV. _____

Delta Model No. EUB1312ME REV. 00

Sample Issue No. _____

Sample Issue Date. MAR.12 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, SHANG YING ROAD, KUEI SAN INDUSTRIAL ZONE TAOYUAN

SHIEN, TAIWAN, R.O.C.

TEL:886-(0)3-3591968

FAX:886-(0)3-3591991

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

STATEMENT OF DEVIATION

NONE

DESCRIPTION :

DELTA ELECTRONICS, INC.

TAOYUAN PLANT

TEL : 886-(0)3-3591968

252, SHANGYING ROAD, GUISHAN INDUSTRIAL ZONE,

FAX : 886-(0)3-3591991

TAOYUAN CITY 33341, TAIWAN

SPECIFICATION FOR APPROVAL

Customer:

Description: DC FAN

Customer P/N:

REV:

Delta Model NO.: EUB1312ME

Delta Safety Model NO.:

Sample Rev: 00

Issue NO:

Sample Issue Date: MAR.12 2021

Quantity:

1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH SINGLE PHASES AND FOUR POLES.

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	12 VDC
OPERATION VOLTAGE	9.0 - 13.2 VDC
INPUT CURRENT(AVG.) ★ (TEST UNDER FREE AIR)	0.12 (MAX. 0.20) A
INPUT POWER(AVG.) ★ (TEST UNDER FREE AIR)	1.44 (MAX. 2.40) W
SPEED	2000 ± 10% R.P.M.
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	2.05 (MIN. 1.85) M ³ /MIN. 72.4 (MIN. 65.3) CFM
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	34.6(MIN. 28.0) mmH ₂ O 0.139(MIN. 0.113) inchH ₂ O
ACOUSTICAL NOISE (AVG.)	30.0(MAX. 34.0) dB-A
INSULATION TYPE	UL: CLASS A
CURRENT ON LABEL	0.25A

★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.

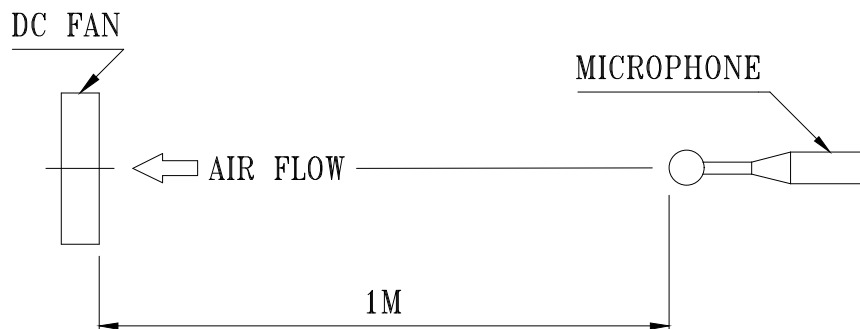
PART NO:

DELTA MODEL: EUB1312ME

INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN PILLOW AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 50/60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
LIFE EXPECTANCE (L10) (AT LABEL VOLTAGE)	70,000 HOURS CONTINUOUS OPERATION AT 20°C
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	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.

PART NO:

DELTA MODEL: EUB1312ME

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 ————— SUPERFLO BEARING
- 3-5. WEIGHT ————— 190 GRAMS(REF.)
- 3-6. INGRESS PROTECTION RATING ————— IPX2

4. ENVIRONMENTAL:

- 4-1. OPERATING TEMPERATURE ————— -40 TO +40 DEGREE C
- 4-2. STORAGE TEMPERATURE ————— -40 TO +60 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, PBB0s, CFCs, PBBEs, PBDPEs AND HCFCs.

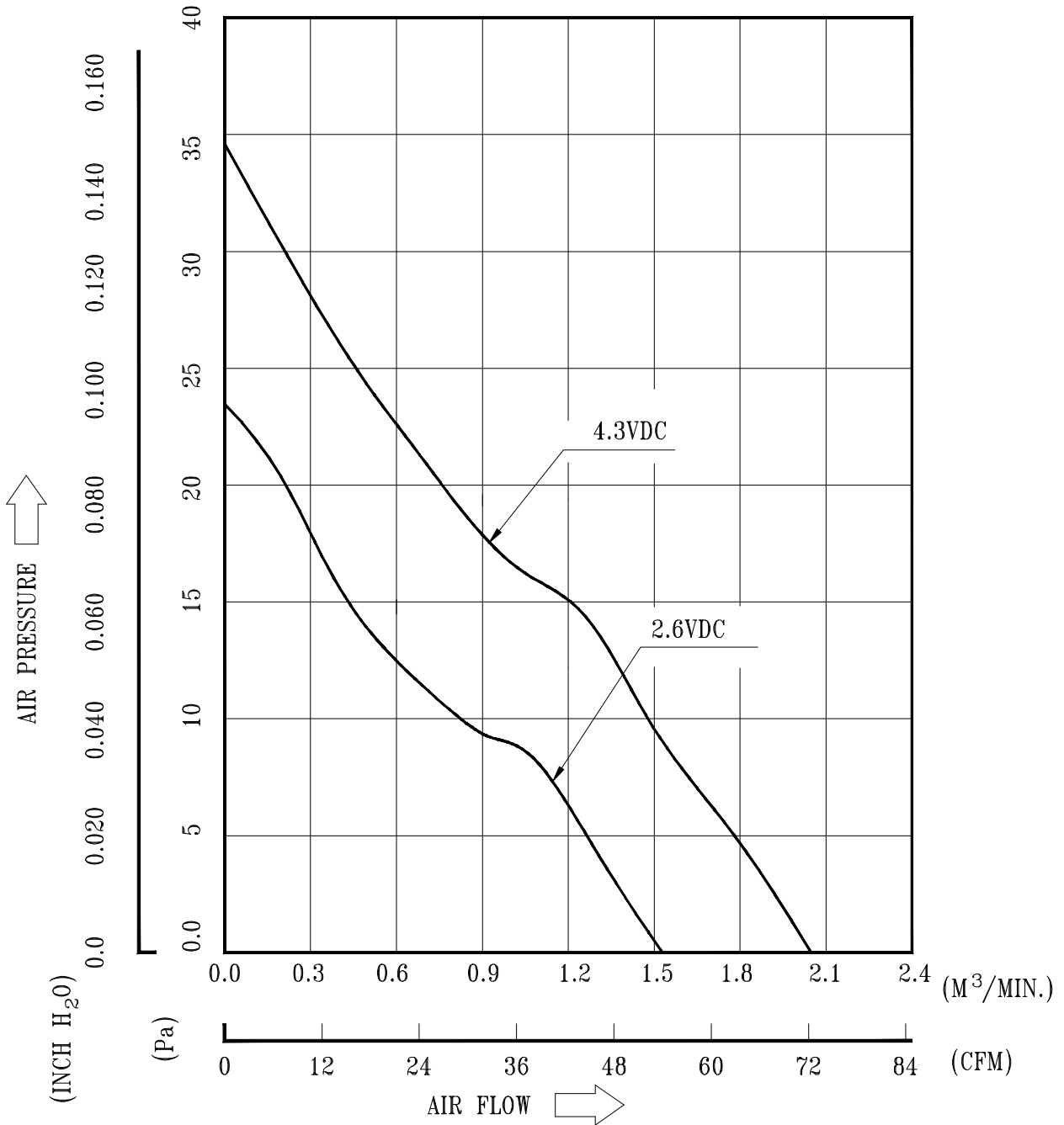
7. PRODUCTION LOCATION:

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

PART NO:

DELTA MODEL: EUB1312ME

8. P & Q CURVE:



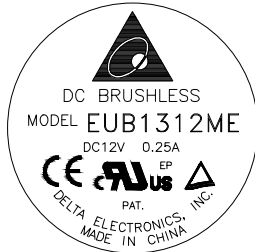
* TEST CONDITION: INPUT VOLTAGE ——— OPERATION VOLTAGE
TEMPERATURE ——— ROOM TEMPERATURE
HUMIDITY ——— 65%RH

PART NO:

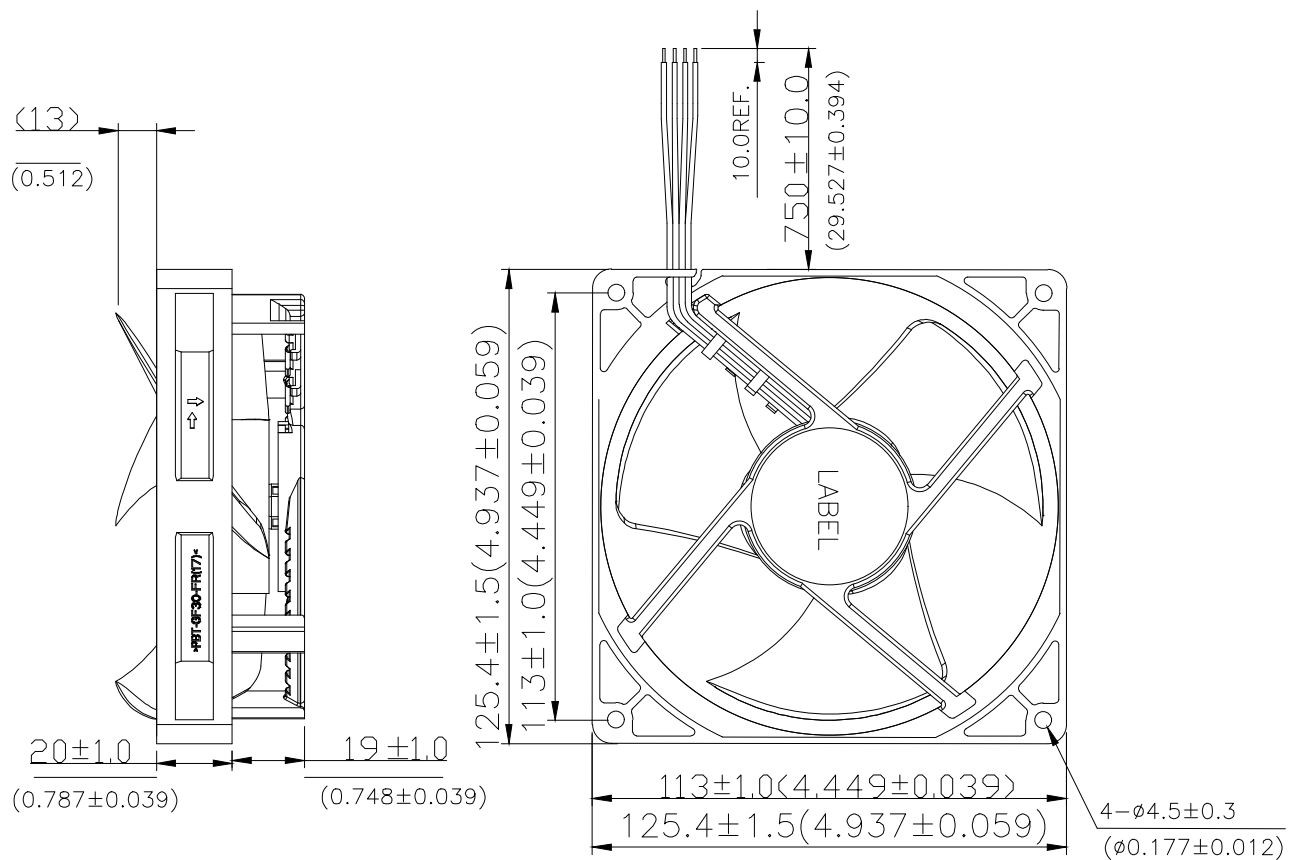
DELTA MODEL: EUB1312ME

9. DIMENSION DRAWING:

LABEL:

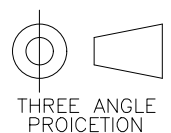


OR



NOTES:

1. LEAD WIRE UL:1007 AWG#26
YELLOW WIRE----(F00)
BLACK WIRE----(-)
RED WIRE----(+)
WHITE WIRE----(VS)
2. THIS PRODUCT IS ROHS COMPLIANT



THREE ANGLE PROJECTION

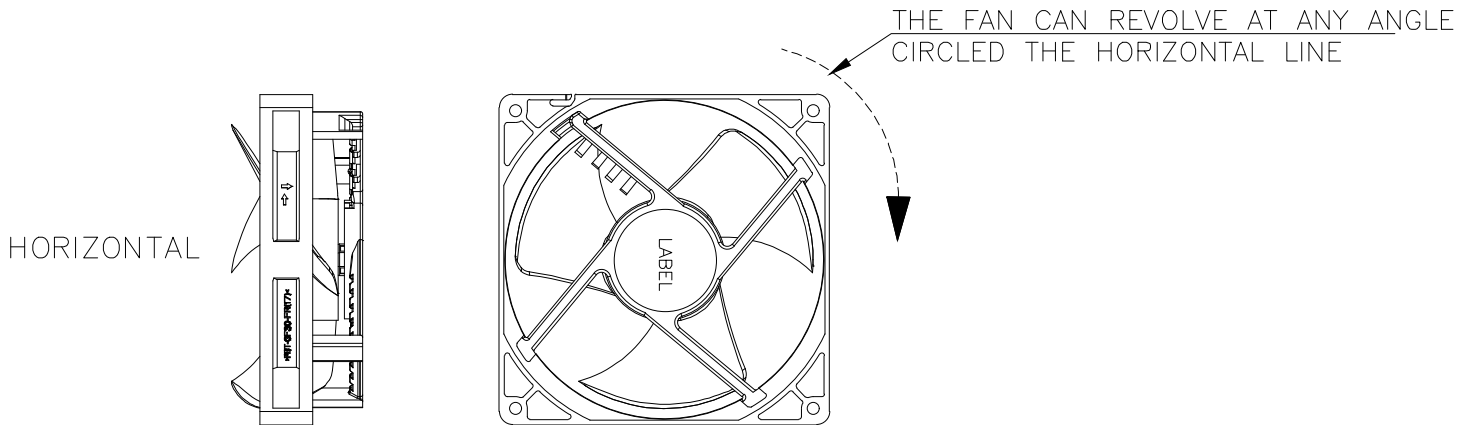
UNIT:mm

PART NO:

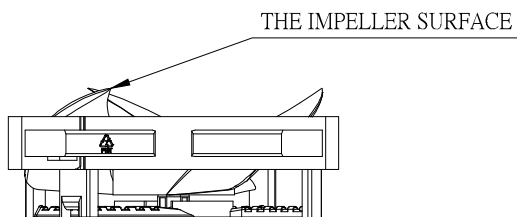
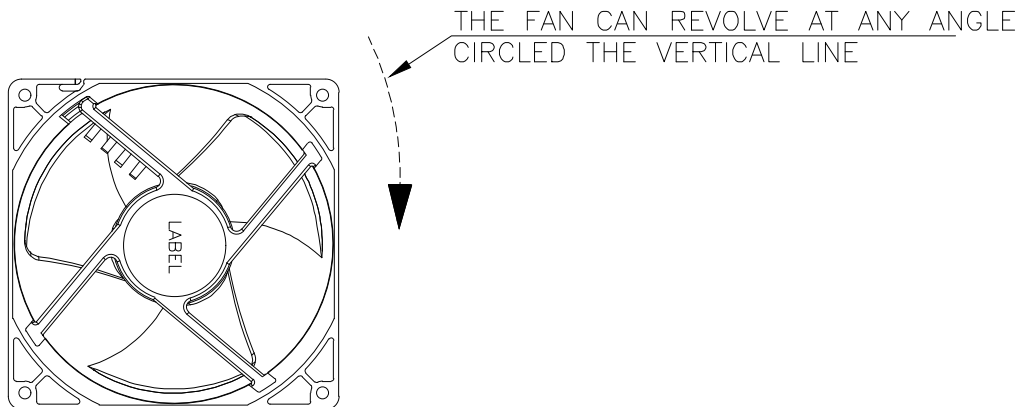
DELTA MODEL: EUB1312ME

10. SLEEVE BEARING FAN MOUNTING TYPE :

WE SUGGEST THAT THE FAN IS MOUNTED AS THE TYPE A OR B .IF YOU WOULD LIKE TO HAVE OTHER MOUNTING TYPE, PLEASE CONTACT US.

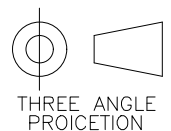


TYPE :A



TYPE :B

VERTICAL





Application Notice

1. Delta will not guarantee the performance of the products if the application condition falls outside the parameters forth in the specification.
2. A written request should be submitted to Delta prior to approval if deviation from the specification is required.
3. Please exercise caution when handling fans. Damage may be caused then 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 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 provide 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 cautions when mounting the fan. Incorrect mounting of fans may cause excess resonance, vibration and subsequent noise.
11. It is important to consider safety then 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 "4.7 μ F or greater" capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.