*** SAMPLE HISTORY***

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CUSTOMER P/N:

DELTA MODEL: PFB0824DHE-T50F

REV.	DESCRIPTION	DRAWN	CHECKED			APPROVED	ISSUE
INLV.			ME	EE	CE	APPROVED	DATE
00	ISSUE SPEC	NARIN 11/28'06	JATUPHON 11/28'06	WATCHARAPOL 11/28'06	CHAIWAT.L 11/28'06	JATUPHON 11/28'06	11/28'06
01	ADD "P/N SUFFIX-T50F INDICATES FAN FAN WILL HAVE IP54 RATING" ON NOTE 2						
02	CHANGE IP54 TO BE IP55 UPDATE SAFETY ON LABEL UPDATE SPEC	KANJANA.U APR.18, 2017	SUPAWIT CHEE APR 18, 2017	PRASIT.W APR.18, 2017		WORASIT.H APR.18, 2017	APR.18, 2017



SPECIFICATION FOR APPROVAL

Customer	
Description. DC FAN	
Part No.	REV.
Delta Model No. <u>PFB0824DHE-T50F</u>	F REV02
Sample Issue No	
Sample Issue Date. APR.18, 2017	
PLEASE SEND ONE COPY OF TH	HIS SPECIFICATION BACK
AFTER YOU SIGNED APPROVAL	FOR PRODUCTION PRE-
ARRANGMENT.	
APPROVED BY:	
DATE :	

DELTA ELECTRONICS (THAILAND) PCL. 111 MOO 9, WELLGROW INDUSTRIAL ESTATE, BANGNA-TRAD ROAD, BANGWUA, BANGPAKONG, CHACHEONGSAO 24180 THAILAND.

TEL: +66-(0)38-522360-8FAX: +66-(0)38-522477 DELTA ELECTRONICS (THAILAND) PCL. 111 MOO 9, WELLGROW INDUSTRIAL ESTATE, BANGNA-TRAD ROAD, BANGWUA, BANGPAKONG, CHACHEONGSAO 24180 THAILAND.

STATEMENT OF DEVIATION

TEL: +66-(0)38-522360-8

FAX: +66-(0)38-522477

NONE	
DESCRIPTION:	

DELTA ELECTRONICS (THAILAND) PCL. DELTA ELECTRONICS (THAILAND) I CL.

111 MOO 9, WELLGROW INDUSTRIAL ESTATE,
BANGNA-TRAD ROAD, BANGWUA, BANGPAKONG,
FAX: +66-(0)38-522477 CHACHEONGSAO 24180 THAILAND.

SPECIFICATION FOR APPROVAL

Customer:				
Description:	DC FAN			
Customer P/N:		REV	7 :	
Delta Model NO.:	PFB0824DHE-T50F	Delta safety	model N	O: PFB0824DHE
Sample Rev:	02	Issu	e NO:	
Sample Issue Date	: APR.18, 2017	Qua	ntity:	
1. SCOPE:				
THIS SPECIFICA	TION DEFINES THE R	ELECTRICAL AND	MECHAN	JICAI.

CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN.

2. CHARACTERS:

ITEM	DESCRIPTION		
RATED VOLTAGE	24 VDC		
OPERATION VOLTAGE	14.0 - 26.4 VDC		
INPUT CURRENT (AVG)	1.35 (1.63MAX.) A CURRENT SAFETY ON LABEL : 1.63A		
INPUT POWER (AVG)	32.4 (39.12 MAX.) W		
SPEED	9000±10% R.P.M.		
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	3.754 (MIN. 3.379) M ³ /MIN 132.56 (MIN. 119.3) CFM		
MAX.AIR PRESSURE (AT ZERO AIR FLOW)	51.57 (MIN. 41.77)mmH ₂ 0 2.030 (MIN. 1.644) inchH ₂ 0		
ACOUSTICAL NOISE (AVG.)	65.0 (MAX 70.0) dB-A		
INSULATION TYPE	UL: CLASS A		
INGRESS PROTECTION	IP55 (IEC 60529)		

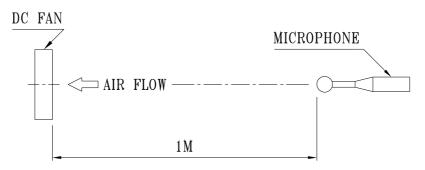
(continued)

PART NO:	
DELTA MODEL:	PFB0824DHE-T50F

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

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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PART NO:	
DELTA MODEL: PFB0824DHE-T50F	
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	205 GRAMS (REF.)
4. ENVIRONMENTAL:	
4-1. OPERATING TEMPERATURE	10 TO +60 DEGREE C
4-2. STORAGE TEMPERATURE	40 TO +70 DEGREE C
4-3. OPERATING HUMIDITY	5 TO 90 % RH
4-4. STORAGE HUMIDITY	5 TO 95 % RH
5. PROTECTION:	
5 4 LOCKED DOMOD DDOMECHION	

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.

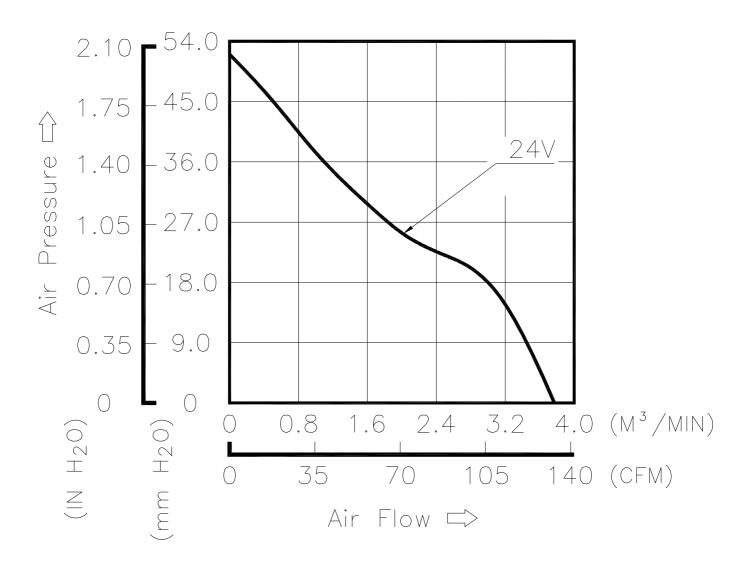
7. PRODUCTION LOCATION

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

PART NO:

DELTA MODEL: PFB0824DHE-T50F

8. P & Q CURVE:



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

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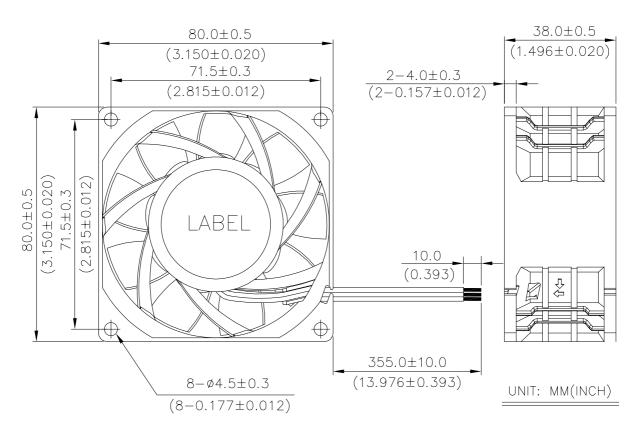
PART NO:

DELTA MODEL: PFB0824DHE-T50F

9. DIMENSION DRAWING:

LABEL:





NOTES:

- 1. WIRE: UL1007 AWG#24 RED WIRE----(+) BLACK WIRE----(-) BLUE WIRE----(-F00)
- 2. FOR IP55 PROTECTION.
- 3. THIS PRODUCT IS ROHS COMPLIANT

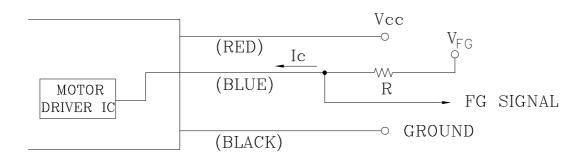
Page: 5

PART NO:

DELTA MODEL: PFB0824DHE-T50F

10.FREQUENCY GENERATOR (FG) SIGNAL:

1. OUTPUT CIRCUIT - OPEN COLLECTOR MODE:



CAUTION: THE RD SINGAL LEAD WIRE MUST BE KEPT AWAY FROM "+" LEAD WIRE & "-" LEAD WIRE.

2. SPECIFICATION:

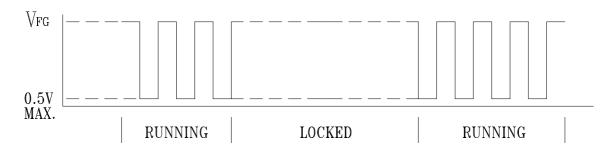
 $V_{CE}(sat) = 0.5V MAX$

 $V_{FG} = 26.4V MAX$

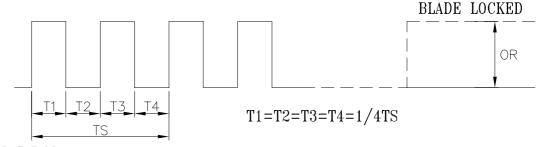
 $I_c = 5 \text{mA} \text{ MAX}.$

 $R \ge V_{FG} / I_c$

3. FREQUENCY GENERATOR WAVEFORM:



FAN RUNNING FOR 4 POLES



N=R.P.M

TS=60/N(SEC)

*VOLTAGE 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. 01 Date: June 24, 2009

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