

SPECIFICATION FOR APPROVAL

Customer.		
Description.	DC FAN	
Customer Part No.		REV.
Delta Model No	FFB0812XHXHC	REV. 00
Sample Issue No.		
Sample Issue Date.	JUL-13-2015	

PLEASE SEND ONE COPY OF THIS SPECIFICATION BACK AFTER YOU SIGNED APPROVAL FOR PRODUC-TION PRE-ARRANGEMENT.

APPROVED BY : _____

DATE: _____

Delta Electronics, Inc.

HeTianXia High-Tech Industrial Park.

Shi Jie Town, Dong Guan City.

Guangdong Province, China. P. R. C.

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STATEMENT OF DEVIATION

DESCRIPTION :		

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Description:	DC FAN	
Customer P/N:		REV:
Delta Model NO.:	FFB0812XHXHC	Delta Safety Model NO: FFB0812XH
Sample Rev:	00	Issue NO:
Sample Issue Date:	JUL-13-2015	Quantity:

1. SCOPE:

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

2. CHARACTERS:

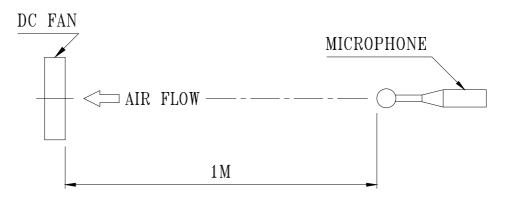
ITEM	DESCRIPTION		
RATED VOLTAGE	12VDC		
OPERATION VOLTAGE	7.0 - 15.0 VDC		
INPUT CURRENT	1.00 (MAX. 1.20) A (CURRENT ON SAFETY LABEL : 2.00 A)		
INPUT POWER	12.00 (MAX. 14.40) W		
SPEED	9000 R.P.M. (REF.)		
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	2.626 (MIN. 2.363) M ³ /MIN. 92.69 (MIN. 83.42) CFM		
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	$\begin{array}{c} 28.00 \ (\text{MIN. } 22.68 \) \ \text{mmH}_2\text{O} \\ 1.102 \ (\text{MIN. } 0.893 \) \ \text{inchH}_2\text{O} \end{array}$		
ACOUSTICAL NOISE (AVG.)	59.0 (AVG.) dB-A		
INSULATION TYPE	UL: CLASS A		
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(continued)

DELTA MODEL: FFB0812XHXHC

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 (AT LABEL VOLTAGE)	70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
AUTO-RESTART	LOCK ROTOR PROTECTED BY ELECTRONIC TIMER WITH AUTOMATIC RESTART FEATURE

- 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.

DELTA MODEL: FFB0812XHXHC

3. MECHANICAL:

	3-1.	DIMENSIONS			S	SEE 1	DIMENS	SIONS	DRA	WING
	3-2.	FRAME PLAS	FIC UL	94V-0(SECC	NDARY N	MATE	ERIALS	NOT	ALLO	WED)
	3-3.	IMPELLER PLAS	FIC UL	94V-0(SECC	NDARY N	MATE	ERIALS	NOT	ALLO	WED)
	3-4.	BEARING SYSTEM					TWO I	BALL	BEAR	INGS
	3-5.	WEIGHT					- 115	GRA	MS (H	REF.)
	3-5-1	1. ROTOR WEIGHT						—— 4	l2 GF	AMS
4.	ENVI	RONMENTAL:								
	4 4	ODEDATING TEMPE		,		6		. ~ ~ ~	nan	nn a

4-1.	OPERATING TEMPERATURE	20	10	+7	0 1	DEG.	REF	I U
4-2.	STORAGE TEMPERATURE4	0	TO	+7	5 I	DEGI	REE	C C
4-3.	OPERATING HUMIDITY		_	5	T0	90	%	RH
4-4.	STORAGE HUMIDITY		_	5	Т0	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:

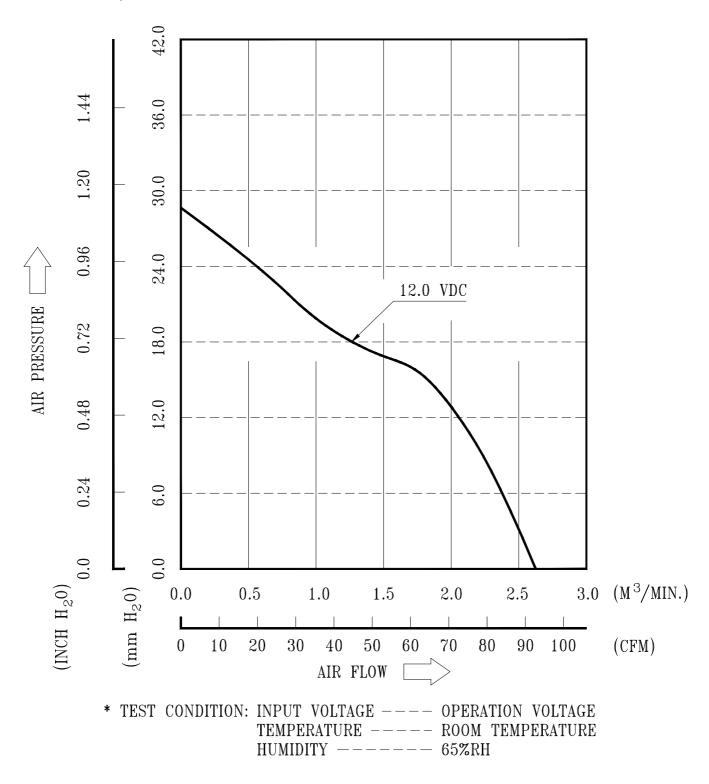
6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

7. PRODUCTION LOCATION

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

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8. P & Q CURVE:

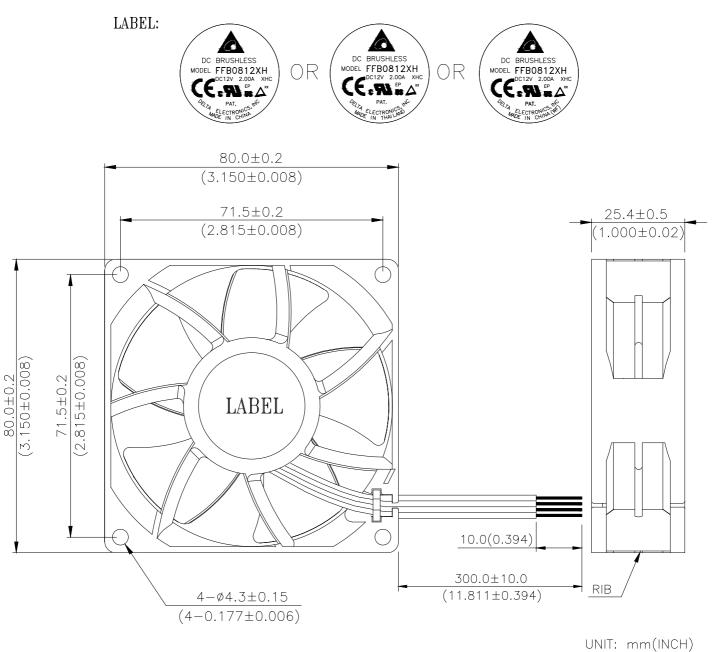


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9. DIMENSION DRAWING:



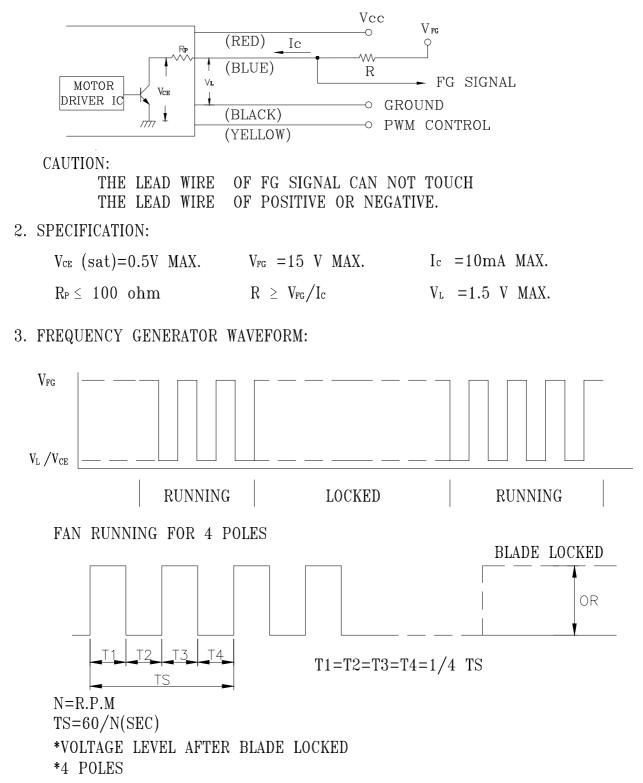
NOTES: 1. LEAD WIRE: UL1430 AWG#26 RED WIRE----(+) YELLOW WIRE----(PWM) BLUE WIRE----(F00) BLACK WIRE----(-)

2. THIS PRODUCT IS ROHS COMPLIANT.

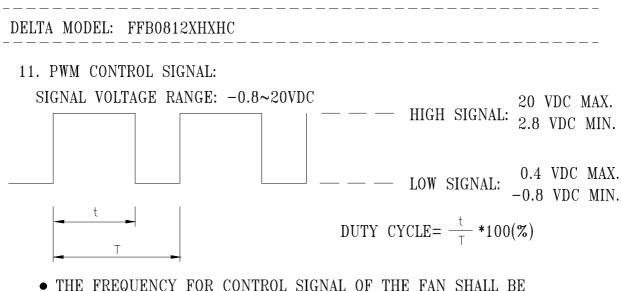
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10. FREQUENCY GENERATOR (FG) SIGNAL:

1. OUTPUT CIRCUIT - OPEN COLLECTOR MODE:



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- THE FREQUENCY FOR CONTROL SIGNAL OF THE FAN SHALL BE ABLE TO ACCEPT A 30HZ~300KHZ AT 12V.
- AT 12V, 100% DUTY CYCLE, THE ROTOR WILL SPIN AT MAXIMUM SPEED.
- AT 12V, 0% DUTY CYCLE, THE ROTOR WILL STOP.
- WITH CONTROL SIGNAL LEAD DISCONNECTED, THE FAN WILL SPIN AT MAXIMUM SPEED.
- AT 12V, 1KHZ, 30% DUTY CYCLE ,THE FAN WILL BE ABLE TO START FROM A DEAD STOP .

12. SPEED VS PWM CONTROL SIGNAL: (AT 12V & PWM FREQUENCY=1KHZ) TEMP=25 DEGREEC)

DUTY CYCLE (%)	SPEED R.P.M. (REF.)	CURRENT (A)
100	9000±10%	1.00
50	4125±10%	0.20
0	0	0.02

13. PWM CONTROL LEAD WIRE INPUT IMPEDANCE:

