

SPECIFICATION FOR APPROVAL

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Description : DC FAN	
Customer Part No.:	REV.:
Delta Model No.: BFB0312HA-CR00	REV.: 00
Sample Issue No. :	
Sample Issue Date : AUG.27 2018	
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PLEASE SEND ONE COPY OF THIS SF YOU SIGNED APPROVAL FOR PRODU	
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APPROVED BY:	
D. 4.T.C.	
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

Customer:

STD

*** SAMPLE HISTORY***

CUSTOMER: STD

CUSTOMER P/N:

DELTA MODEL: BFB0312HA-CR00

REV.	DESCRIPTION	DRAWN		HECKED		APPROVED	ISSUE
T\∟ V .	DEGORII TION		ME	EE	CE		DATE
00	ISSUE SPEC	李英珍 08/15'18	陳維哲 08/21'18	李英珍 08/15'18		沈柏輝 08/24'18	08/27'18
		00/10/10	00721 10	00/10/10		00724 10	

Delta Electronics, Inc. No.252, Shanying Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

STATEMENT OF DEVIATION

TEL: 886-(0)3-3591968

FAX: 886-(0)3-3591991

■ NONE □ DESCRIPTION:		

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No.252, Shanying Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Specification For Approval

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Customer : STD			
Description : DC	FAN		
Customer P/N :		rev.:	
Delta model no. :	BFB0312HA-CR00	Delta Safety Model No.: BFB0312HA	ı-C
Sample revision. :	00	Issue no.:	
Sample issue date	e : AUG.27 2018	Quanti BFB	

1. SCOPE:

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

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	12.0 VDC
OPERATION VOLTAGE	10.8 - 13.2 VDC
INPUT CURRENT(AVG.) #	0.07 (MAX. 0.11) A SAFETY CURRENT ON LABEL: 0.20A
INPUT POWER(AVG.)	0.84 (MAX. 1.32) W
SPEED	7500±20% R.P.M.
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	0.041 (MIN.0.033) M ³ /MIN. 1.45 (MIN.1.17) CFM
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	7.24 (MIN.4.63) mmH ₂ O 0.285(MIN.0.182) inchH ₂ O
ACOUSTICAL NOISE (AVG.)	29.0 (MAX. 34.0) dB-A
INSULATION TYPE	UL : CLASS A
INSULATION STRENGT	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)

[#] THE MAX VALUE OF CONSUMING CURRENT DOES NOT REPRESENT THE PEAK VALUE, THE PEAK VALUE NEED MEASURE BY OSCILLOSCOPE.

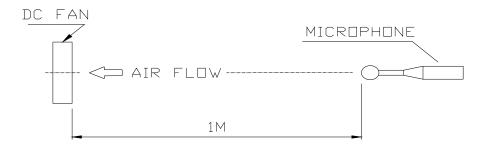
(continued)

DELTA MODEL: BFB0312HA-CR00

LIFE EXPECTANCE (L10) (AT LABEL VOLTAGE)	30,000 HOURS CONTINUOUS OPERATION AT 40 $^{\circ}$ C WITH 15 \sim 65 %RH.
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 ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE.

DELTA MODEL: BFB0312HA-CR00

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	

4. ENVIRONMENTAL:

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 POSITIVEAND NEGATIVE LEADS.
- 6. RE OZONE DEPLETING SUBSTANCES:

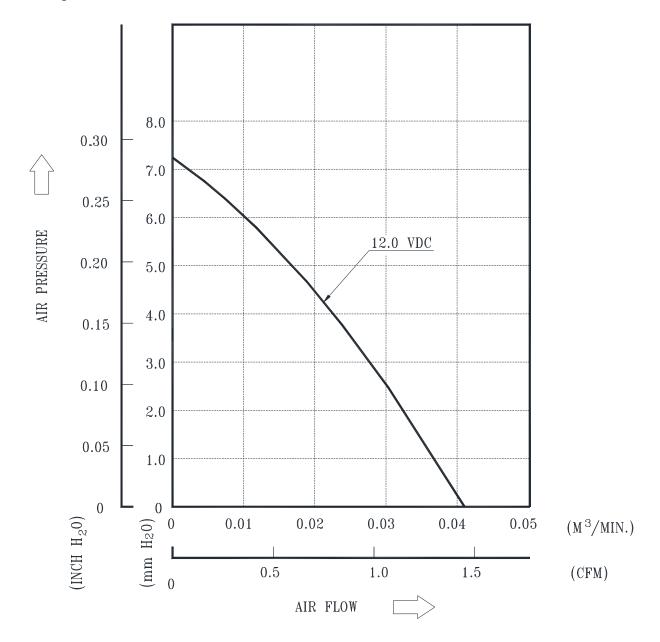
6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

7. PRODUCTION LOCATION

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

DELTA MODEL: BFB0312HA-CR00

8. P & Q CURVE:

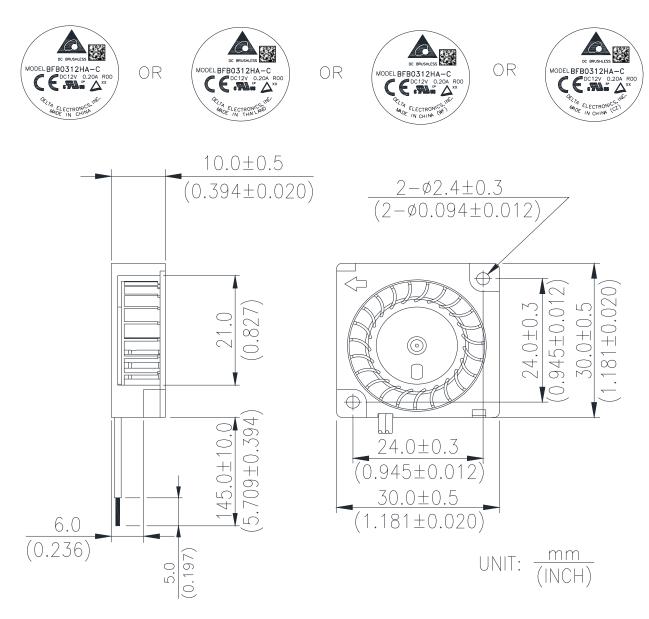


*TEST CONDITION: INPUT VOLTAGE-----OPERATION VOLTAGE
TEMPERATURE-----ROOM TEMPERATURE
HUMIDITY-----65%RH

DELTA MODEL: BFB0312HA-CR00

9. DIMENSION DRAWING:

LABEL:



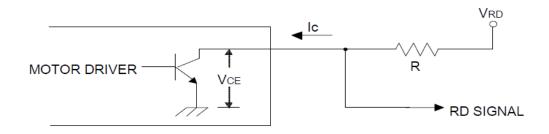
NOTES:

1. LEAD WIRE: UL 1571 AWG #30 RED WIRE-----(+) BLACK WIRE-----(R00)

DELTA MODEL: BFB0312HA-CR00

10. ROTATION DETECTOR (RD) SIGNAL:

1. OUTPUT CIRCUIT - OPEN COLLECTOR MODE:



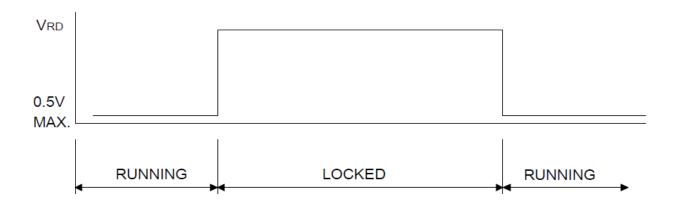
CAUTION:

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

2. SPECIFICATION:

VRD=5.0 TYP.(Vcc MAX.) Ic = 5mA MAX. VcE=0.5V MAX. R \geq VRD /Ic

3. ROTATION DETECT WAVEFORM:





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 " $4.7\mu F$ 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:

BFB0312HA-CR00