	•		
	各户水	認書	
<u>SPECI</u>	FICATION FOR	<u>RAPPROVAL</u>	
CUSTOMER:	DRM		
DESCRIPTION:	DC FAN		
CUSTOMER P/N:		REV:	
DELTA MODEL:	ASB0305HP-007	HQREV:01_	
SAMPLE ISSUE DAT	ГЕ: <u>11/28/2018</u>	· · · · · · · · · · · · · · · · · · ·	
QUANTITY:		, 	
PLEASE SIGN	BACK ONE COPY OF	THIS SPECIFICATIO	DN
AFTERCOWIT	LETION OF ATTROVE	AL.	
APPROVED	BY:		
DA	ТЕ:	-	
DELTA ELECTRONICS	COMPONENTS (WUJIANG) LTD.	
No. 1688 Jiangxing	East Road, WuJiang E	conomy Development 2	Zone
Wujiang City Jian	gSu Province, P.R.C.		
TEL:86-512-634060 FAX:86-512-630156	08 08		

No.1688 Jiangxing East Road WuJiang Economy Development Zone Wujiang City Jiang Su Province, P.R.C.

TEL : 86-512-63406008 FAX : 86-512-63015608

STATEMENT OF DEVIATION

NONE V DESCRIPTION : No.1688 Jiangxing East Road Wujiang Economy Development Zone Wujiang City Jiang Su Province, P.R.C.

TEL : 86-512-63406008 FAX : 86-512-63015608

Specification For Approval

Customer : DRM			
Description : DC FAN			
Customer P/N :		rev. :	•
Delta model no. : ASBC	305HP-007HQ	Delta Safety Model No.:	ASB0305HP-00
Sample revision. :	01	Issue no.:	
Sample issue date : 11	-28-2018	Quantity :	
1. SCOPE: THIS SPECIFICATION OF THE DC BRUSHLE	DEFINES THE SS AXIAL FLO	ELECTRICAL AND MECHANICA W FAN.	L CHARACTERISTICS
Z. CHARACTERO.		DESCRIPTI	
RATED VOLTAGE		5 0V	
OPERATION VOLTAG	E	4.5 - 5.5 VDC	
INPUT CURRENT(AVG.) #		0.20 (MAX 0.5 (SAFETY CURRENT ON	50) A LABEL : 0.50A)
INPUT POWER(AVG.)	PUT POWER(AVG.) 1.00 (MAX 2.5) W		5) W
SPEED		9500±15%R.P.M.	
MAX. AIR FLOW (AT ZERO STATIC PR		0.144 (MIN. 0.123) 5.10 (MIN. 4.34	M3 /MIN.) CFM
MAX. AIR PRESSURE (AT ZERO AIRFLOW)		3.96 (MIN. 2.86) r 0.156 (MIN. 0.113)	nmH2O inchH2O
ACOUSTICAL NOI <mark>SE</mark> ((AV <mark>G</mark> .)	29.0 (MAX. 33.0) dB-A	
INSULATION TYPE	``	UL: CLASS A	
INSULATION STRENG	т	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)	
DIELECTRIC STRENG	ίTH	5 mA MAX. AT 500 VAC 50/60 H (BETWEEN FRAME AND (+) TEI	z ONE MINUTE, RMINAL)

THE MAX VALUE OF CONSUMING CURRENT DOES NOT REPRESENT THE PEAK VALUE. THE PEAK VALUE NEED MEASURE BY OSCILLOSCOPE.

DELTA MODEL: ASB0305HP-007HQ

LIFE EXPECTANCE (L10) (AT LABEL VOLTAGE)	50,000 HOURS CONTINUOUS OPERATION AT 40 $^\circ$ C WITH 15 ~ 65 %RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
LOCKED PROTECTION	THE FAN WILL SHUT DOWN WHEN LOCKED 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:

DC FAN	MICROPHONE
AIR FLOW	
	4

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: ASB0305HP-007HQ

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	4.5 GRAMS(REF.)
. ENVIRONMENTAL:	

4. ENVIRONMENTAL:

4-1. OPERATING TEMPERATURE	10 TO +70 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:

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

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: ASB0305HP-007HQ

8. P & Q CURVE:



DELTA MODEL: ASB0305HP-007HQ

9.DIMENSION DRAWING:



UNIT: mm

NOTES:

- LEAD WIRE UL10064 AWG#32
 RED WIRE-----(+)
 BLACK WIRE-----(-)
 YELLOW WIRE----(F00)
 BLUE WIRE---- (PWM)
 2. THIS PRODUCT IS RoHS COMPLIANT
- THIS PRODUCT IS ROAS COMPLIANT
 DELTA'S RESTRICTIONS ON HALOGEN APPLY ONLY TO BROMINATED AND CHLORINATED COMPOUNDS. NO OTHER HALOGEN IS RESTRICTED. SUBSTANCES RESTRICTIONS FOR HALOGEN-FREE(INCLUDE FAN PLASTIC PARTS, PWB BOARD, IC, ELECTRICAL MATERIALS & CABLE ASSY),
 - a. BROMINE(Br) < 900 PPM,
 - b. CHLORINE(CI) < 900 PPM
 - c. (Br) + (CI) < 1500 PPM.

DELTA MODEL: ASB0305HP-007HQ

10.FREQUENCY GENERATOR (FG) SIGNAL: 10-1. OUTPUT CIRCUIT - OPEN DRAIN MODE:





DELTA MODEL: ASB0305HP-007HQ



• MIN. STARTED DUTY CYCLE : 30% WHEN DUTY CYCLE IS SET FOR MORE THAN 30%, THE FAN WILL BE ABLE TO START FROM A DEAD STOP.

DELTA MODEL: ASB0305HP-007HQ

12. TYPICAL STARTUP SEQUENCE (CONDITION: 25°C, 5.0VDC, 1 ATM)

THE FIRST 100mS IS USED TO WAIT FOR VCC SETTLING.

• THE PWM SIGNAL CAN NOT INPUT BEFORE VCC.

13. DEFINITION OF LOCK DETECTION, LOCK-OFF TIME, AND QUICK START FUNCTION

• THE 5SEC LOCK-OFF TIME IS ALSO A TYPICAL VALUE AND THE MAXIMUM TOLERANCE IS 10 SECONDS.

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.

File E132003 Project 11CA28112

June 15, 2011

REPORT

ON

COMPONENT - FANS, ELECTRIC

Delta Electronics Inc. Taoyuan, Taiwan

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		and Report		Revised:	2017-04-27

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - DC Fans, Models see "ELECTRICAL RATINGS" for details.

USR indicates investigation to the Standard for Electric Fans, UL 507.

CNR indicates investigation to the Canadian Standard for Fans and Ventilators, CSA C22.2 No. 113-10.

ELECTRICAL RATINGS:

Model Nos.	Volts, dc	Amperes, A
BFB1012UH-BA40(Y)	14.2	3.15
BFB1012VH-7J56(Y)	12	2.7

Note: Above (Y) may be xxxxx, where x may be A through Z, O through 9, "-" or blank.

Model Nos.	Volts, dc	Amperes, A
BFB1012HN(Y9)	12-14	0.38
BFB1012MN(Y9)	12-14	0.24
BFB1212VHA01(Y6)	12	0.6
BUB0612HJ-00(Y6)	12	0.8
BUB0612MJ-00(Y6)	12	0.35
ASB0305HP-00(Y6)	5	0.5
BUC1512HF-00(Y6)	12	1.6

Note:

- 1. Models BFB1012HN(Y9) and BFB1012MN(Y9) series may be marked with variety rated Volt between 12-14V.
- The number after Y represents digit, each digit may be A through Z, 0 through 9, "-" or blank.

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		and Report		Revised:	2014-12-23

- 8. The Temperature Test conducted on the fans described in this Report was done in an average ambient temperature of 25°C. The suitability of the fan when they are intended to operate in a higher ambient temperature shall be evaluated during the end-use investigation.
- 9. These fans shall be mounted and enclosed in accordance with the frame and enclosure requirements of the end product. Suitable enclosures or guards shall be provided for the fan blades to reduce the risk of injury to persons. The fans may be provided with a finger guard. Suitability of the finger guard shall be determined in the end-use investigation.
- 10. The minimum flammability rating of the plastic used for the fan frame, and impeller of the fans described in this Report is V-0.
- 11. The minimum flammability rating of the bobbin and other insulating material of the fans described in this Report is V-0 at 1.6 mm (or 1.5 mm) thick.
- 12. These fans described in this Report have not been evaluated to the requirements for over-surface and through-air spacings described in Section 24 of the Standard for Electric Fans, UL 507 and Clause 9.3 of the Canadian Standard for Fans and Ventilators, CSA C22.2 No. 113-10. These spacings have been waived on the basis that these fans will be connected to an isolated secondary circuit rated maximum 30 V rms (42.2 V peak) or 60 V dc and are subjected to a 500 V dielectric strength test.
- 13. The minimum flammability rating of the printed wiring boards used in the fans described in this Report is V-0.
- 14. These fans described in this report may be mounted to an external heatsink, mounting bracket, chassis, shroud, or the like. The above mounted parts have not been evaluated with the fans. Suitability of the above parts shall be evaluated in combination with the fan during the end-product investigation and described in the end-product report.
- 15. The suitability of the lead terminations and connectors shall be determined during the end-product investigation.
- 16. Wiring leads are tack soldered to the printed wiring board. Suitability of the lead securement and routing shall be evaluated in the end product.
- 17. These Models BFB1012UH-BA40(Y), BFB1012VH-7J56(Y), BFB1012HN(Y9), BFB1012MN(Y9), BFB1212VHA01(Y6) series are provided with an external lead that is intended for connection to an external speed control (PWM) circuit. There is no external lead provided to connected during the component fan investigation. Suitability of the leads shall be determined in the end-product.
- 18. Models BFB1012HN(Y9) and BFB1012MN(Y9) series may be marked with variety rated volts between 12-14V. Suitability for actual current shall be evaluated in the end-use product.

Zertifikat Certificate

Zertifikat	Nr. Certificate No.	Blatt Page
R 5015	5481	0203

Ihr Zeichen <i>Client Reference</i> SF170322C	Unser Zeichen Our ReferenceAustralityZTW1-YML-1101690017202	stellungsdatumDate of Issue (day/mo/yr)2.05.2017
Genehmigungsinhaber License Holde Delta Electronics, Inc 252, Shangying Road, Guishan Industrial Zone Faoyuan City 33341 Faiwan, R.O.C.	r Fertigungsstätte Man Delta Electro No. 1688, Jia Wujiang Econo Wujiang City, P.R. China	<i>mfacturing Plant</i> onics (Jiangsu) Ltd. angxing East Road omic Development Zone Jiangsu Province 21520
Priifzeichen Test Mark Bauart geprüft Sicherheit Regelmäßige Produktions- überwachung www.tuv.com ID 200000000	Geprüft nach Tested acc. to IEC 60950-1:2005+A1+A2 EN 60950-1:2006+A11+A1+A1	2+A2
Zertifiziertes Produkt (Geräteiden Certified Product (Product Ide	tifikation) ntification)	Lizenzentgelte - Einheit License Fee - Unit
<u>Ventilator</u> (DC Brushle wie Blatt (as page) 01, Er	ess Fan) gänzung (Addition)	
Bezeichnung	: ASB0305HP-00XXXXXX	1
(Type Designation) X steht für (stands for) Nur zum Zwecke der Vermark Nennspannung (Rated Voltag Nennstrom (Rated Current)	: A-Z, 0-9, - oder (or) freibleibend (blank) tung. (for marketing purpose only e) : DC 5V : 0.5A	1
Max. Umgebungstemperatur (Max. Ambient Temperature) Vermerke: Dieses Netzgerät klassifizieret als Abschni (Remark: The equipment is	: 70°C ist auch geprüft und tt 4.4.5.1 a. also tested and classified	
as sub-clause 4.4.5.1 a.)		
		-

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

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 298DM-2LP11-000
 298DS

 2LP11-000A
 AUB0912H-F00
 6222N
 USTF501005HW
 8412GLV
 8412NGL-12
 4114N/12HHR-297
 6448-384
 PMD2408PMB1-A(2).F.GN

 RACK0224
 3258JH
 4114N/17-251
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 4318/2R
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 9WP1248M1021
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