

客戶承認書 SPECIFICATION FOR APPROVAL

CUSTOM	MER:		
DESCRI	PTION:	DC FAN	
CUSTOM	IER P/N:		REV:
DELTA	MODEL: AF	B0524HHB7GY	REV: 00
SAMPLE	ISSUE DATE:_	08/20/2018	
QUANTI	TY:		
	LEASE SIGN BACI		THIS SPECIFICATION
	APPROVED BY:_ DATE:_		

DELTA ELECTRONICS COMPONENTS (WUJIANG) LTD. FAN/MOTOR PLANT

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

TEL:86-512-63406008 FAX:86-512-63015608 No.1688 Jiangxing East Road WuJiang Economy Development Zone Wujiang City Jiang Su Province, P.R.C.

STATEMENT OF DEVIATION

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

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

SPECIFICATION FOR APPROVAL

TEL: 86-512-63406008

FAX: 86-512-63015608

Customer:

Description:	DC FAN	
Customer P/N:		REV:
Delta Model NO.:	AFB0524HHB7GY	Delta Safety Model NO: AFB0524HHB
Sample Rev:	00	Issue NO:
Sample Issue Date	: 08-20-2018	Quantity:

1. SCOPE:

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

2. CHARACTERS:

ITEM	DESCRIPTION		
111111	DESCINITION		
RATED VOLTAGE	24 VDC		
OPERATION VOLTAGE	14.0 - 27.6 VDC		
	0.08 (MAX. 0.12) A		
INPUT CURRENT	SAFETY CURRENT ON LABEL: 0.12A		
INPUT POWER	1.92 (MAX. 2.88) W		
SPEED	6400 ± 10%		
MAX. AIR FLOW	0.460 (MIN. 0.410) M ³ /MIN.		
(AT ZERO STATIC PRESSURE)	16.24 (MIN. 14.48) CFM		
MAX.AIR PRESSURE	8.00 (MIN. 6.44) mmH ₂ 0		
(AT ZERO AIRFLOW)	0.315 (MIN. 0.253) inch $\tilde{\text{H}_2}$ 0		
ACOUSTICAL NOISE (AVG.)	36.0 (MAX. 39.0) dB-A		
INSULATION TYPE	UL: CLASS A		

(continued)

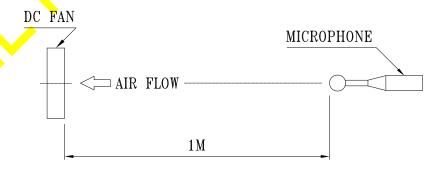
PART NO:

DELTA MODEL: AFB0524HHB7GY

INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)		
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)		
EXTERNAL COVER	OPEN TYPE		
LIFE EXPECTANCE (AT LABEL VOLTAGE)	70,000 HOURS CONTINUOUS 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		
LEAD WIRE	UL 1007 -F- AWG #24 BLACK WIRE NEGATIVE(-) RED WIRE POSITIVE(+)		

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.

PART NO:					
DELTA	MODEL:	AFB0524HHB7GY			
3. ME(CHANICAL:				
3-1	. DIMENSIONS		SEE	DIMENSIONS DRAWING	
3-2	. FRAME ——			- PLASTIC UL: 94V-0	
3-3	. IMPELLER —			– PLASTIC UL <mark>: 94V-</mark> 0	

4. ENVIRONMENTAL:

3-5. WEIGHT —

4-1. OPERATING TEMPERATURE	-10 TO	+70 DEGREE C
4-2. STORAGE TEMPERATURE	-40 TO	+75 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

3-4. BEARING SYSTEM —

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

<mark>7</mark>–1. PRODUCTS WILL BE PRODUCED IN CHINA OR THAILAND .

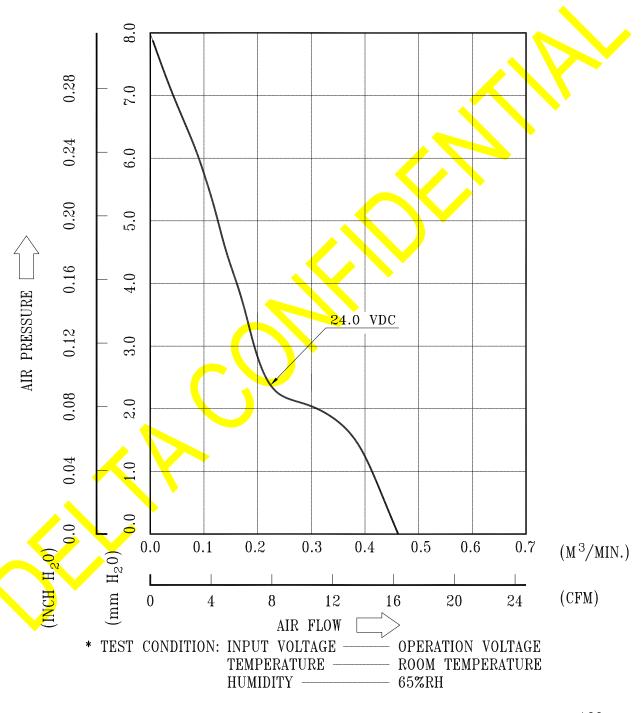
--- TWO BALL BEARINGS

32 GRAMS

PART NO:

DELTA MODEL: AFB0524HHB7GY

8. P & Q CURVE:



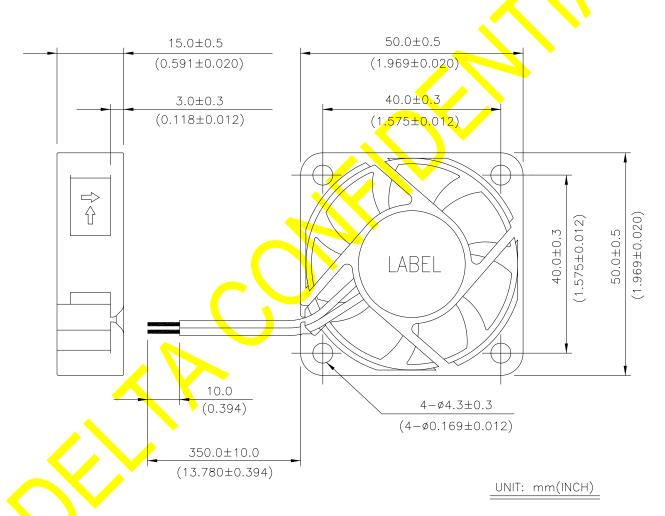
page: 4

DELTA MODEL: AFB0524HHB7GY

9. DIMENSION DRAWING:

LABEL:





NOTES:

- 1. LEAD WIRE UL1007 AWG#24

 RED WIRE---(+)

 BLACK WIRE----(-)
- 2. THIS PRODUCT IS RoHS COMPLIANT

A00



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. 01 Date: June 24, 2009

CERTIFICATE OF COMPLIANCE

 Certificate Number
 20151020-E132003

 Report Reference
 E132003-19971216

 Issue Date
 2015-OCTOBER-20

Issued to: DELTA ELECTRONICS INC

252 SHANG YING RD

KUEI SHAN

TAOYUAN HSIEN 333 TAIWAN

This is to certify that COMPONENT - FANS, ELECTRIC

representative samples of See addendum page

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: Electric Fans, UL 507

Fans and Ventilators, CSA C22.2 No. 113

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC





CERTIFICATE OF COMPLIANCE

Certificate Number 20151020-E132003

Report Reference E132003-19971216

Issue Date 2015-OCTOBER-20

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model Nos.

AFB0305LLA, AFB0305LA, AFB0305MA, AFB0305HA, AFB0405LA, AFB0405MA, AFB0405HA, AFB0405HHD, AFB0505LA, AFB0505MA, AFB0505HA, AFB02505LA, AFB02505MA, AFB02505HA, AFB02505HHA, AFB0705L, AFB0705M, AFB0705H, AFB0405LD, AFB0405MD, AFB0405HD, AFB0605LLD, AFB0605LB, AFB0605MB, AFB0605HB, AFB0605HHB, AFB0605LA, AFB0605MA, AFB0605HA, AFB0505LB, AFB0505MB, AFB03505LA, AFB03505MA, AFB03505HA, AFB0505HB, AFB0512LB, AFB0512MB, AFB0512HB, AFB0512HHB, AFB0412LA, AFB0412MA, AFB0412HA, AFB0412HHA, AFB0512LA, AFB0512MA, AFB0512HA, AFB0712LA, AFB0712MA, AFB0712HA, AFB0712HHA, AFB0712VHA, AFB0812LL, AFB0812L, AFB0812M, AFB0812H, AFB0812HH, AFB0812VH, AFB0812SH, AFB0812LLB, AFB0812LB, AFB0812MB, AFB0812HB, AFB0812HHB, AFB0812VHB, AFB0812SHB, AFC0812D, AFC0812DD(Y), AFB0912L, AFB0912M, AFB0912H, AFB0912HH, AFB0912VH, AFC0912D, AFB0612LA, AFB0612MA, AFB0612HA, AFB02512LA, AFB02512VHB-5B05(Y), AFB02512MA(Y), AFB02512HA(Y), AFB02512HHA(Y), AFB0312LA(Y) AFB0312MA(Y), AFB0312HA(Y), AFB03512LA(Y), AFB03512MA(Y), AFB03512HA(Y), AFB0612LB, AFB0612MB, AFB0612HB, AFB0612HHB, AFB0612LLD, AFB02512MA-A(Y), AFB02512HA-A(Y), AFB02512HHA-A(Y), AFB0312LA-A(Y), AFB0312MA-A(Y), AFB0312HA-A(Y), AFB0612LD, AFB0612MD, AFB0612HD, AFB0612HHD, AFB0612VHD, AFB0612VHB, WFB1212VHE, WFB1212ME, AFB0412LD, AFB0412MD, AFB0412HD, AFB0412HHD, AFB0312LLA, AFB0524LB, AFB0524MB, AFB0524HB, AFB0524HHB, AFB0824LL, AFB0824L, AFB0824M, AFB0824H, AFB0824HH, AFB0824VH, AFB0824SH, AFB0824LLB, AFB0824LB, AFB0824MB, AFB0824HB, AFB0824HHB, AFB0824VHB, AFB0824SHB, AFB0924L, AFB0924M, AFB0924H, AFB0924HH, AFB0924VH, AFB0624LB, AFB0624MB, AFB0624HB, AFB0624HHB, AFB0624LLD, AFB0624LD, AFB0624MD, AFB0624HD, AFB0624HHD, AFB0624VHD, AFB0624VHB, WFB1224VHE, WFB1248HHE, WFB1248VHE, AFB0424LD, AFB0424MD, AFB0424HD, AFB0424HHD, AFB0748L, AFB0748M, AFB0748H, AFB0748HH, AFB0848L, AFB0848M, AFB0848H, AFB0848HH, AFB0948L, AFB0948M, AFB0948H, AFB0948HH, AFB0648L, AFB0648M, AFB0648H, AFB0648HH, AFB0648VH, AFB0648SH, AFB0648EH, AFB04512LB(Y), AFB04512MB(Y), AFB04512HB(Y), AFB0512LB-A(Y), AFB0512MB-A(Y), AFB0512HB-A(Y), GFB1412EHT(Y), GFC1412DT(Y), AFB0748SH-SP(Y), BFB1712EHT(Y), AFB03512LA-A(Y), AFB03512MA-A(Y), AFB03512HA-A(Y)

Note: above (Y) may be xxxxx, where x may be A through Z, 0 through 9, "-" or blank. For Models AFB0812SH(Y), the (Y) excluded -9N07 and -SM26



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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Appendix No. 111 to Marks Licence No. 001764 file ref. 11641-2611-0001/31E1A

Constructional data for electric motor-operated appliances / electric heating appliances / electric motor operated tools

	El Cook	II & Co. KC. Am Alt	en Galgen 10, 56410 N	iontahaur Germany	
		Delta Electronics Inc.	en Galgen 10, 00+10 i	ionabadi, comany	
			se Center, 144 Min Ch	uan E. Road	
1.2 Place of mai		raipei, Taiwan R.O.C. AF - Dong Guan Shi,	Guanadona, China		
	_		Guardania, amin		
1.3 Product cate	gory: E	Einbaulüfter			
1.4 Type:	,	AFB0524LB/MB/HB/H	HB		
2.4 Degree of position 2.5 Supply confidence 2.5.1 Kind of confidence 2.6 Materials: 2.7 Refrigeration 2.8 Type of refrigeration 2.9 File reference 2.10 Quantity of the confidence 2.10 Quan	ut: max. gainst electric shrotection: nection: nection: 2.6.1 Enclosure 2.6.2 Water co g equipment: per igerant: ce - compressors f coolant: nnical information re): ne motor er: revolutions: ence:	abgedeckte A Litzenanschlu e: Polybutylene intainer: missible operating ov	a-low voltage) - Schutzk usführung ß Terephthalate UL 94 V- erpressure, pressure si	.0	
4.5 Nominal vo	ltage:	Wire thickness	Number of turns:	Insulation class (insul. mat.)	
	7(00)0(01)00 32				
2				E	
4.8 Temperatu	ire class:		an 25°C): -10°C / +70		
etc.)			temperature regulator,	heater, cables, capacitor, sockets	
sie	ehe beigefüg	te Liste	•		
Offenbach,	5.5.99		Place: Montabaur	Date: 06.04.1999	
VDE Testing and Certification Institute Department TM ディ3 ハ		n Institute	Gnt Gnt 1935 D-5640	iteg-Sleon Trik Coxig tech 1349 3 Vontabaur	
ì	. A. J.	The	Montec-Elcon Gn	abH & Co. KG	

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DC Fans category:

Click to view products by Delta manufacturer:

Other Similar products are found below:

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RACK0224 3258JH 4114N/17-251 622/2N 4318/2R 4412F/2D OD127AP-28HTB 424JMU EF40101BX-1000U-G99 4414/2HH
AQ0612MB-A70GL(T)#22 9GA0924L4021 9GA0924M4021 9GA0924M4011 9GA0912M4D011 9GA0912F4021 9GA0912H4D011
9GA0824L20021 9GA0824L20011 9GA0812A2002 9GA0812B2D001 9GA0812L20021 9WP1248M1021 9GA0824L2D001
9GA0912W402 9GA0912M402 9GA0824B2D001 9GA0824A20021 9GA0912W4021 9GA0924W402 9GA0812L2D0011
9GA0812A20021 9GA0824L2001 9GA0824L2002