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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Customer
Description EST FAN (Energy Saving Technology Fan)
Part NoREV
Delta Model No. <u>AFL28A2LU-BRA01</u> REV. 00
Sample Issue No
Sample Issue Date <u>SEP.04 2014</u>
PLEASE SEND ONE COPY OF THIS SPECIFICATION BACK AFTER YOU SIGNED APPROVAL FOR PRODUCTION PRE- ARRANGMENT.
APPROVED BY:
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

DELTA ELECTRONICS, INC. 252, SHANG YING ROAD, KUEI SAN TAOYUAN HSIEN 333, TAIWAN, R. O. C.

TEL : 886-(0)3-3591968FAX : 886-(0)3-3591991

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STATEMENT OF DEVIATION

NONE			
DESCRIPTION :			

DELTA ELECTRONICS, INC. 252, SHANG YING ROAD, KUEI SAN TAOYUAN HSIEN 333, TAIWAN, R. O. C.

TEL : 886-(0)3-3591968 FAX : 886-(0)3-3591991

SPECIFICATION FOR APPROVAL

Customer:								
Description: EST FAN (Energy Saving Technolo					ology Fa	an)		
Customer P/N:				RE	SV:			
Delta Model NO.: AF	L28A2LU	-BRA01	(1400RPM)) Delta	safety	model	N0.:	TBD
Sample Rev:	00			Iss	ue NO:			
Sample Issue Date:	Sep.04	2014		Qu	antity:			

1. SCOPE:

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

2. CHARACTERS:

UNLESS SPECIFIED, ALL READINGS AND TESTS ARE BASED ON 25°C, 65% RH.

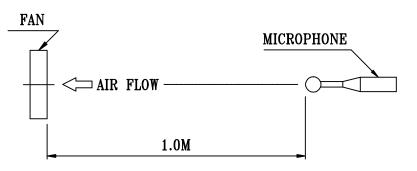
ITEM	DESCRIPTION
NOMINAL VOLTAGE (VAC)	230 VAC (50/60Hz)
NOMINAL VOLTAGE RANGE	200 - 240 VAC
INPUT POWER (FREE AIR)	16W TYP.
SPEED	1400±10% R.P.M.
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	13.10 M ³ /MIN. (TYP.) 460 CFM (TYP.)
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	11.0 mmH ₂ 0 (TYP.) 0.43 inchH ₂ 0 (TYP.)
ACOUSTICAL NOISE (1M) (NOTE4)	55.0 (MAX. 60.0) dB(A)
INSULATION TYPE	UL: CLASS A
LEAKAGE CURRENT	<=0.25mA
SAFETY	

(continued)

DELTA MODEL: AFL28A2LU-BRA01

L	
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)
EXTERNAL COVER	OPEN TYPE
LIFE EXPECTANCE (L10) AT LABEL VOLTAGE	40,000 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 SVT 18AWG/2C(105°C) -LF- BLUE WIRE (N) BROWN WIRE (L)

- 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 SEMI-ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF 1.0M FROM THE FAN INTAKE.

DELTA MODEL: AFL28A2LU-BRA01

3. MECHANICAL:

3-1.	DIMENSIONS	SEE	DIM	ENSIO	NS D	RAWING
3-2.	FRAME — — —		P	LASTI	C UL:	94V-0
3-3.	IMPELLER		·P	LASTI	C UL:	94V-0
3-4.	BEARING SYSTEM			2 B/	ALL B	EARING
3-5.	WEIGHT		1.1	KILOO	RAMS	6 (REF.)
3-6.	INGRESS PROTECTION LEVEL					IP-55

4. ENVIRONMENTAL:

4-1.	OPERATING TEMPERATURE	 -20	то	+6) I)EG	REE	C C
4-2.	STORAGE TEMPERATURE -	 -40	TO	+8	5 I)EGI	REE	C
4-3.	OPERATING HUMIDITY			5]	[0]	90	%	RH
4-4.	STORAGE HUMIDITY	 		5]	01	95	%	RH

5. PROTECTION:

- 5-1. LOCKED ROTOR PROTECTION
- 5-2. OVER CURRENT PROTECTION
- 5-3. MOTOR OVER TEMP. PROTECTION
- 6. RE OZONE DEPLETING SUBSTANCES:

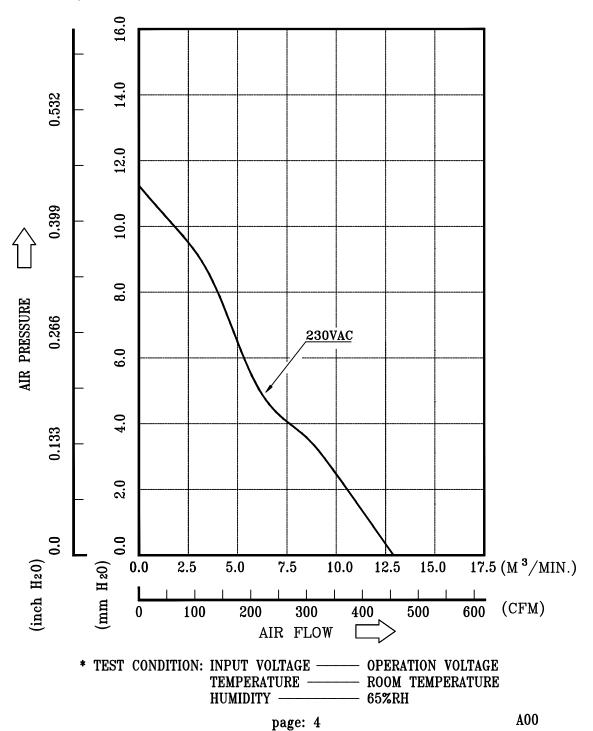
6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

7. PRODUCTION LOCATION

7-1. PRODUCTS WILL BE PRODUCED IN CHINA.

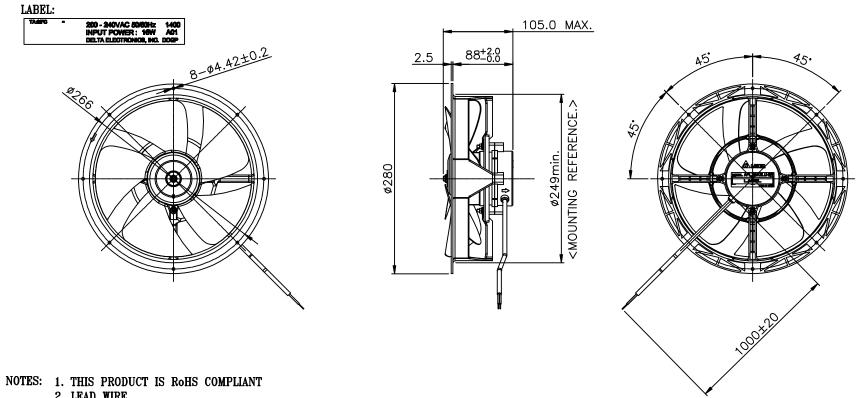
DELTA MODEL: AFL28A2LU-BRA01

8. P & Q CURVE:



DELTA MODEL: AFL28A2LU-BRA01

9. DIMENSION DRAWING:



2. LEAD WIRE

BLUE WIRE : N BROWN WIRE : L UL SVT 18AWG/2C(105°C) -LF-3. IMPELLER DIAMETER IS 230mm

UNIT : mm



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.