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APPROVED DATE 研發處 2007-12-13. 簡文荣	CHECKED DATE 2月12 13	研發處 2007-12-13. 養閒淵正	PREPARED DATE	研發處 一個 12 12 表 12 表 12 表 12 表 12
MODEL No. AQ0912HB-A70GL P.S.				
DESCRIPTION: DC FAN (RoHS) REV. A				
ID No.				
THIS OFFER IS MADE A	ACCORDING TO) YOUR CL	JRRENT INQUIF	RY.

UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY

KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.









ADDA CORPORATION

DATA-SHEET

Engineering

BRUSHLESS AXIAL COOLING FANS.

Printed on: 07/12/12

Ref: (RoHS) Customer

ADDA Model No. : A00912HB-A70GL

piece(s) Samples attached:

Safety Approval : CE

Specifications

SPECIFICATION / CONDITION ITEM

92x92x25 MM DIMENSIONS

BEARING TYPE : BALL

12.0 VDC RATED VOLTAGE

10.8 VDC - 13.2 VDC OPERATING VOLTAGE RANGE :

7.0 VDC, NOMINAL START-UP VOLTAGE :

0.250 Amp. + 10% MAXRATED CURRENT

RATED POWER 3.00 Watt.

 $2900 \text{ RPM } \pm 10\%$ RATED SPEED

(IN FREE AIR AT RATED VOLTAGE)

52.5 CFM AIR FLOW

(IN FREE AIR AT RATED VOLTAGE)

0.133 Inch Water STATIC AIR PRESSURE

(IN FREE AIR AT RATED VOLTAGE)

 $35.0 \, dB/A$ NOISE LEVEL

BY IMPEDANCE MOTOR PROTECTION

CONNECTION LEAD TYPE WIRE ,AWG#24 *

70000 Hours at 40°C / 65% LIFE EXPECTANCY

NET WEIGHT 101 Gram.

PACKING 180 pcs. per Export Carton

Unless otherwise stated, the relative humidity is 65%, and the

temperature is 40°C for the standard testing.

Should you have any doubt, please refer to the environmental conditions

specified in the acknowledgement document.

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Model No.: AQ0912HB-A70GL

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SPECIFICATION

1 · 0 SCOPE

This documentation defines the mechanical & electrical Characteristics of DC Brushless Fans.

2 · 0 MATERIAL

2 · 1 Housing : UL94V-0 Glass Filled polyester (P.B.T) 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T)

2 · 3 Bearing Sys. : () Sleeve, oil impregnated.

(V) Two Ball Bearing() One Ball one Sleeve

() Hypro Bearing

() FDB Bearing

2·4 RoHS

: (V) YES

3 · 0 DIMENSIONS & CONSTRUCTION

All dimensions, Direction of rotation and air flow were specified as per drawing attached.

4 · 0 CHARACTERISTICS & DEFINITION

- $4 \cdot 1$ All rated characteristics were specified as per data sheet enclosed.
- 4 · 2 Rated Current : Rated Current shall be measured after 3 minutes of continuous rotation at rated voltage.
- $4\cdot 3$ Rated Speed : Rated Speed shall be measured after 3 minutes.

of continuous rotation at rated voltage.

 $4\cdot 4$ Start Voltage : The voltage which is able to start the fan to operate by

suddenly switching 'ON'.

- 4 · 5 Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 6 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4 · 7 Air Flow & Static Pressure: The air flow data and static pressures should be determined in accordance with AMCA standard or DIN24163 specification in a doublechamber testing with intake side measurement.
- 4 · 8 Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an anechoic chambar with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air .

NOISE LEVEL MEASUREMENT

Mic. Fan

Direction of air flow >>>>>>>

4 · 9 Protection Degree: IP 55 in accordance to IEC529 standard

Dust Tight: The fan is protected from total touch protection and no harmful ingress of dust.

Protected Against Powerful Water Jets: The fan is protected from water jets, from any directions and no harmful ingress of water.

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SPECIFICATION

5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when look into impeller side.

5.2 Protection

All fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component.

Restarting is automatic as soon as any constraint to rotation has been released.

As fan placed at dead angle position, and the switch was changed from off to on. Restarting was automatic normal as soon as and proved that this fan is good fan.

5.3 Locked Rotor Protection

No damage shall be found after 72 hours continuously at condition of rotation locked. Restarting is automatic as soon as constraint to running has been released.

5.4 Avoid the damage, check the correct voltage and proper polarity before connecting with power.

5.5 Free Drop Shock

In minimum package condition, the fan should withstand drops on any three faces from a height of 30cm onto a wood board of 10mm thick.

5.6 Please do not stick a grease and/or an oil to the fan housing or blade which may have a harmful influence by a chemical reaction at high humidity.

6.0 ELECTRICAL INSPECTION

6.1 Insulation Resistance

Not less than 10M ohm between housing and positive end of lead wire (red) at 500V DC.

6.2 Dielectric Strength

No damage should be found at 500 VAC for 60 seconds, measured with 1mA trip current between housing and positive end of lead wire.

6.3 Life Expectancy

The continous duty life at given temperature after which, 90% of testing units shall still be running.

7.0 ENVIRONMENTAL

7.1 Operating Temperature / Humidity

-10°C to +70 at humidity 100% RH.

7.2 Storage Temperature

All function shall be normal after 500 hours storage at -40° C to +70 $^{\circ}$ C with a 24 hour recovery period at room temperature.

7.3 Humidity

After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specific

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8.0 REMARKS

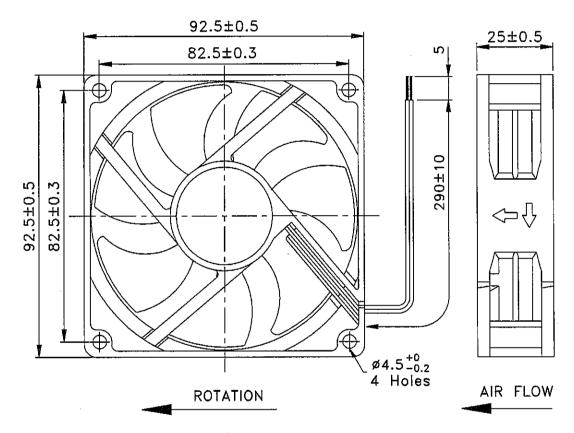
- 8.1 Material and construction are subject to change without advance notice. The changes should be within specification.
- 8.2 All fans shall meet the quality inspection under sampling plan MIL-STD-105E as follow:

 Critical
 0.25%

 Major
 1.00%

 Minor
 2.50%

9.0 OUTLINE STYLING & DIMENSIONS



LEAD WIRES: UL 1007, AWG24, L = 290 +/- 10 MM Red = positive; Black = negative.

10.0 Notes:

10.1 Please do not touch and push Fan Blade with fingers or others, fan blade and ball bearings may be damaged and it causes noise defect.

10.2 Do not carry the fan by its lead wires.

10.3 If the fan does not have the polarity protection function, the connection of the colored wires should be red + red, and black + black, or else the fan will be damaged in no time.

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10.4 For the models without reverse connection of polarity protection, ple

connect the lead wire in reverse

Mouser Electronics

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ADDA:

AQ0912HB-A70GL-LF AQ0824HB-A70GLT-LF