| SPECIFICATION FOR APPROVAL | | | |
|---|--|--|--|
| MODEL NO. : <u>AD0912HB-A73GL</u> P.S. (N) DESCRIPTION : | | | |
| SPEC NO. : SA-0120110324012 | | | |
| ISSUE DATE : 2019.11.04 | | | |
| REVISION : | | | |
| KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME. | | | |
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| ADDA ADDA CORPORATION | | | |
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DATA-SHEET

Engineering

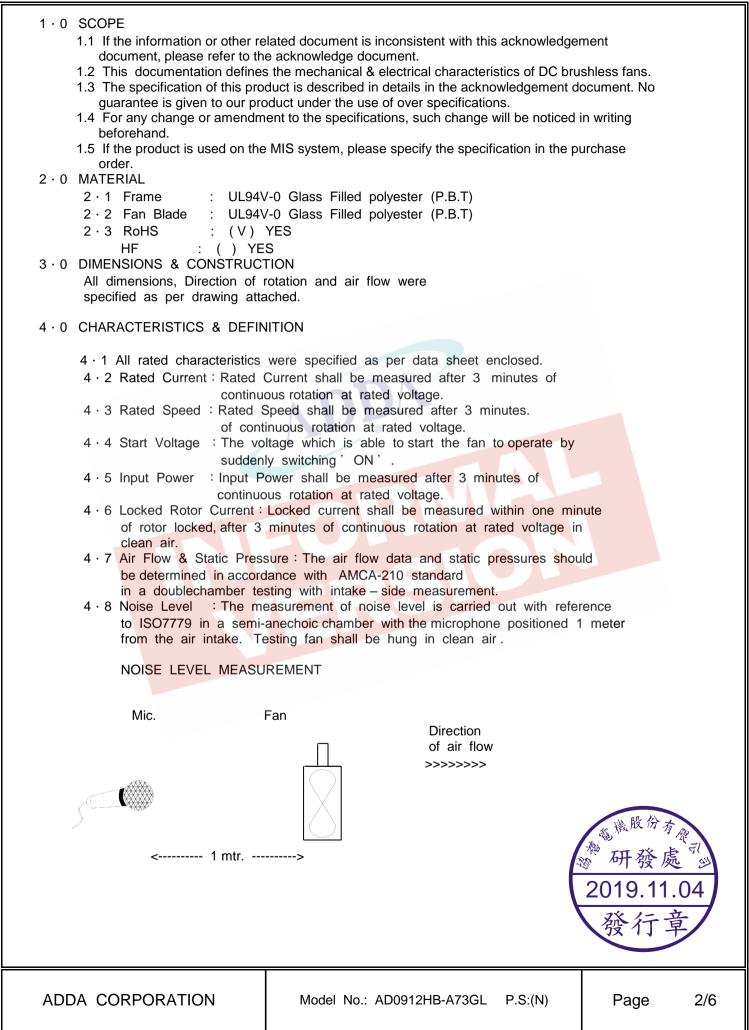
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Printed On:
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19/11/04

BRUSHLESS AXIAL COOLING FANS

| Customer | : | Ref: (RoHS) | |
|---|--|-------------|--|
| Adda Model No | : AD0912HB-A73GL P.S: (N) | | |
| Samples attached | : Piece(s), | | |
| Safety Approval | : UL,CUL,TUV,CE TUV:EN 60950-1:2006+A1 UL:UL507 CE:EN 61000-6-1:2007 EN 61000-6-3:2007+A1 | 1+A1+A12+A2 | |
| Specifications | | | |
| ITEM S | PECIFICATION / CONDITION | | |
| DIMENSIONS | : 92x92x25 mm | | |
| BEARING TYPE | : TWO BALL | | |
| RATED VOLTAGE | : 12 VDC | | |
| OPERATING VOLTAGE RANGE | : 10.8 VDC - 13.2 VDC | | |
| START-UP VOLTAGE | : 7 VDC , NORMAL | | |
| REAL CURRENT | : 0.18 Amp | | |
| REAL POWER | : 2.16 Watt | | |
| RATED CURRENT | : 0.25 Amp + 10 %MAX | | |
| RATED POWER | : 3.00 Watt | | |
| RATED SPEED | : 2900 RPM ± 10 % | | |
| | (IN FREE AIR AT RATED VOLTAGE) | | |
| AIR FLOW | [:] 51.330 CFM (min.: 46.197 CFM) | | |
| AIR FLOW | 1.452 CMM (min.: 1.306 CMM) | | |
| | (IN FREE AIR AT RATED VOLTAGE) | | |
| STATIC AIR PRESSURE | : 0.148 Inch H ₂ O (min.: 0.119 Inch H ₂ O) | | |
| STATIC AIR PRESSURE | : 3.759 mm H ₂ O (min.: 3.044 mm H ₂ O) | | |
| | (IN FREE AIR AT RATED VOLTAGE) | | |
| NOISE LEVEL | : 39.2 dB (A) (max.: 43.2 dB(A)) | | |
| MOTOR PROTECTI <mark>ON</mark> | : BY IC | | |
| POLARITY PROTECTION | : YES | | |
| CONNECTION LEAD TYPE | : WIRE, AWG# 24 | | |
| LIFE EXPECTANCY | : 70000 Hours at 40° C / 65% | | |
| NET WEIGHT | : 92 Gram. | | |
| PACKING | : 180 pcs. Per Export Carton. | | |
| Unless otherwise stated, the relative humidity is 65%, and the temperature is 25℃ for the standard testing. Should you have any doubt, please refer to the environmental conditions specified in the acknowledgement document. | | | |
| ADDA CORPORATION | Model No.: AD0912HB-A73GL P.S: (N) | Page 1/6 | |

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.
- 5.7 If the fan is reinstalled, please pay special attention to the noise due to the vibration (or resonance).
- 5.8 During the testing of the fan, please make sure the finger guard is used for safety.

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.

6.4 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by the long-time locking will damage the fan.

7.0 ENVIRONMENTAL

- 7.1 Improper use such as disassembling the fan, being covered with dust, or dipping the fan in water that results in defects is not covered in the warranty. Do not use the fan in the environment with corrosive air or liquid.
- 7.2 Operating Temperature / Humidity
 - -10°C to +70°C at humidity 65%+/-20% RH.
- 7.3 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.

7.4 Humidity

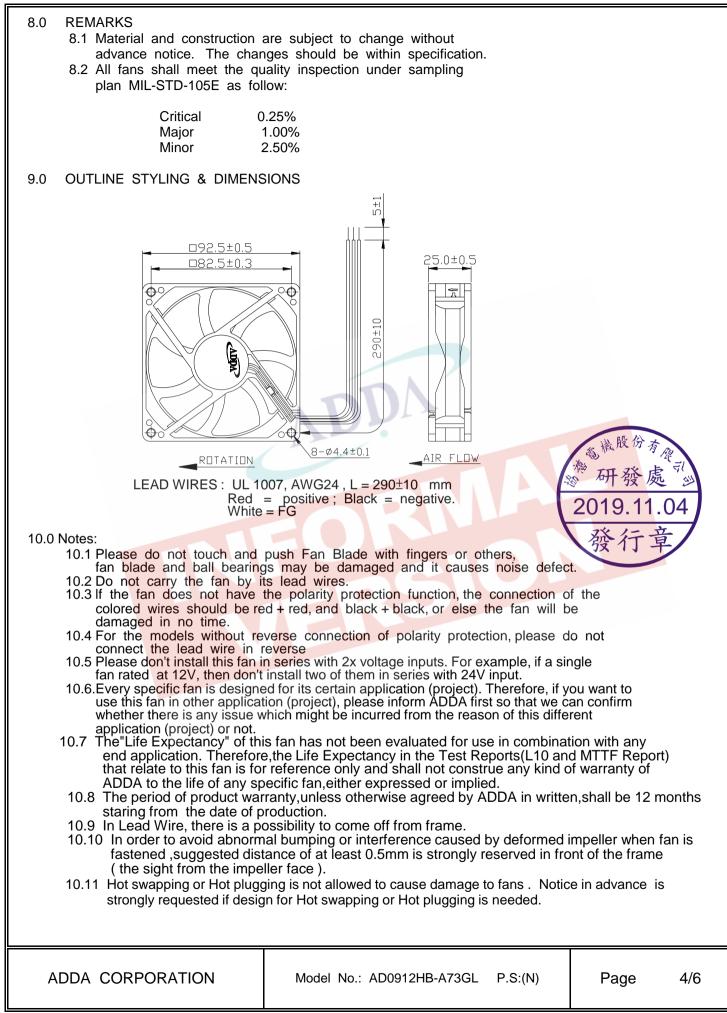
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

7.5 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.



ADDA CORPORATION

SPECIFICATION





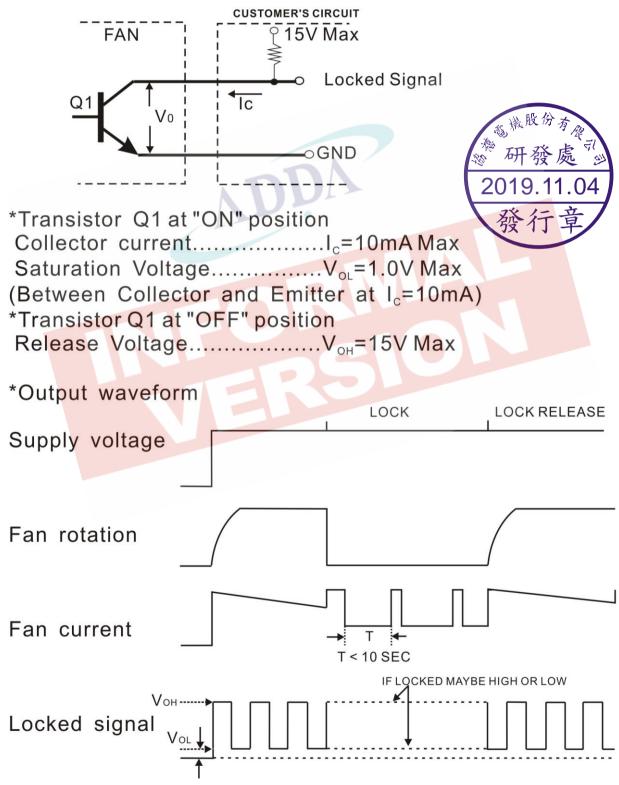


Output of locked signal

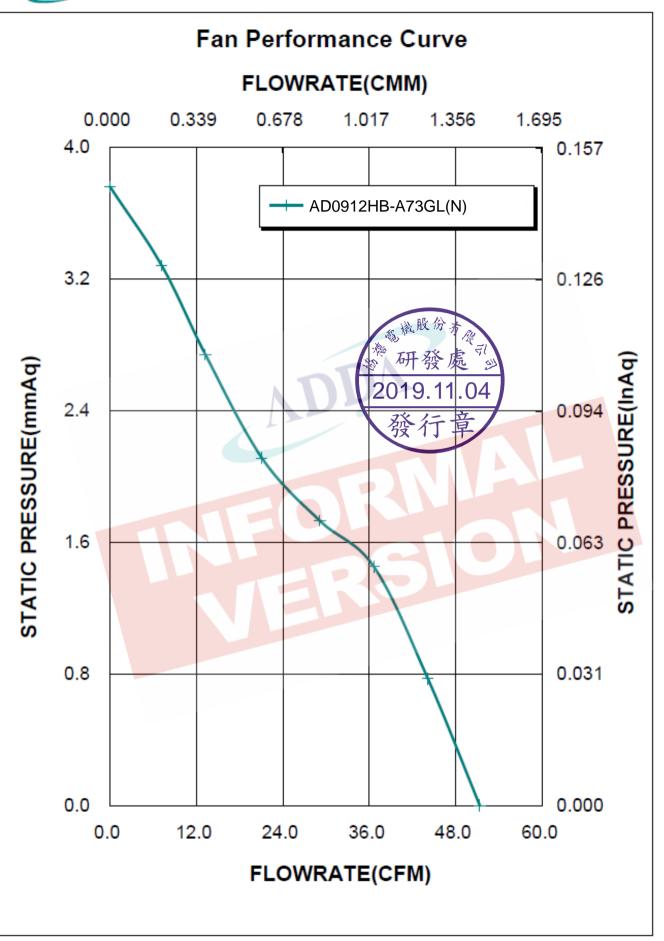
*Output type.....Open collector type

*Electrical design suggestion:

(External signal function design is decided by customer)



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