| SPEC | IFICATION | FOR APPRC | OVAL |
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| CUSTOMER | : MAX-TECH | 1 | |
| CUSTOMER | PART NO. : | | |
| CUSTOMER APPROVED | APPROVED BY 研發處 2019.04.15 簡文榮 | CHECKED BY 研發處 2019.04.15 甘順騫 王嘉祥 | PREPARED BY 研發處 2019.04.15 歐陽語形 |
| MODEL NO. | : AG06012HX1 | 59001 P.S. | |
| DESCRIPTI | ON: MOELX:50 | 051-03 300mm | |
| | | | |
| SPEC NO. : | SA-0120190409 | 9015 | |
| ISSUE DATE | 2019.04.15 | | |
| REVISION : | A00 | | |
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| | 研發處 2019.04.15 發行章 | ES TODI 2004 SGS | ADDA CORP. REGISTERED TO ISO 9001 ISO/TS 16949 CERTIFICATE NO.A8035 |
| | | RPORATION | |

| | Revised Record | | |
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| Rev. | Revision Description | Change page | Date |
| A00 | Preliminary | | 2019.04.15 |
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DATA-SHEET

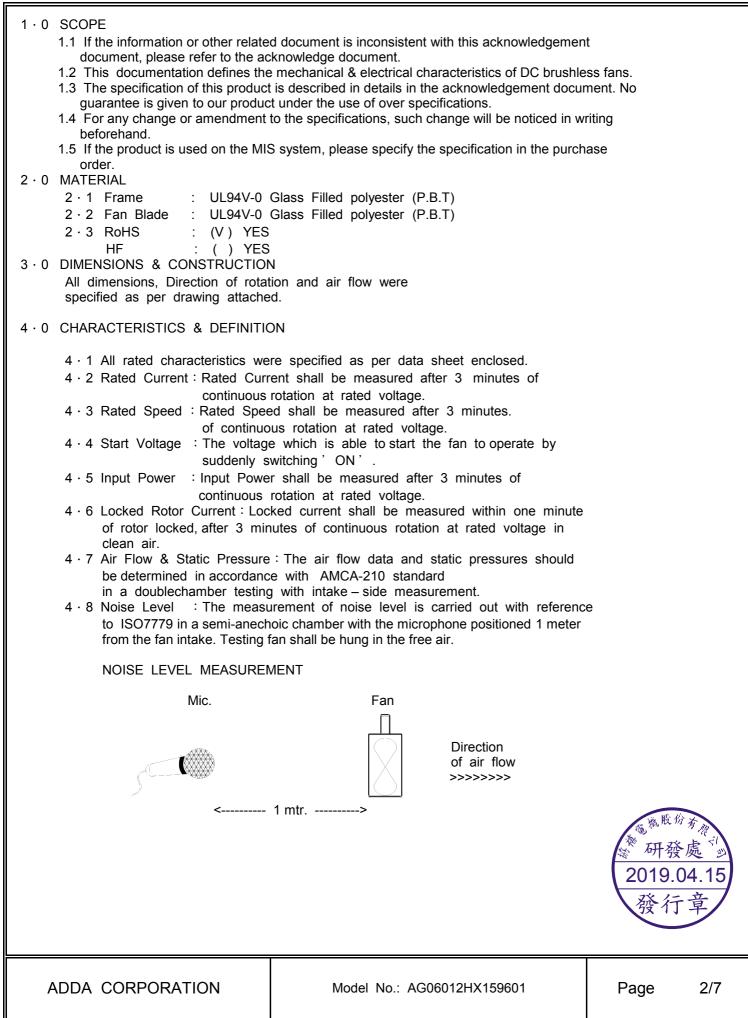
Engineering

Printed On:

19/04/15

| Customer | : MAX-TECH | Ref: (RoHS) |
|---------------------------|--|---------------------------------------|
| Adda Model No | : AG06012HX159601 | • |
| Samples attached | : Piece(s), | |
| Safety Approval | : UL,CUL,TUV,CE TUV:EN 60950-1:200 | 6+A11+A1+A12+A2 |
| | UL:UL507 CE:EN 61000-6-1:200 | 7 |
| | EN 61000-6-3:2007+A | \1 |
| Specifications | | |
| ITEM | SPECIFICATION / CONDITION | |
| DIMENSIONS | : 60x60x15 mm | |
| BEARING TYPE | : HYPRO | |
| RATED VOLTAGE | : 12.0 VDC | |
| OPERATING VOLTAGE RANGE | : 10.8 VDC – 13.2 VDC | |
| START-UP VOLTAGE | : 9.0 VDC , NORMAL | |
| REAL CURRENT | : 0.14 Amp | |
| REAL POWER | : 1.68 Watt | |
| RATED CURRENT | : 0.15 Amp + 10 %MAX | |
| RATED POWER | : 1.80 Watt | |
| RATED SPEED | : 4500 RPM ± 10 % | |
| | (IN FREE AIR AT RATED VOLTAGE) | |
| AIR FLOW | : 18.184 CFM (min.: 16.365 CFM) | |
| AIR FLOW | : 0.514 CMM (min.: 0.462 CMM) | |
| | (IN FREE AIR AT RATED VOLTAGE) | |
| STATIC AIR PRESSURE | : 0.194 Inch H_2O (min.: 0.157 Inch H_2O) | |
| STATIC AIR PRESSURE | : 4.927 mm H_2O (min.: 3.990 mm H_2O) | |
| | (IN FREE AIR AT RATED VOLTAGE) | |
| NOISE LEVEL | : 35.5 dB (A) (max.: 39.5 dB(A)) | |
| MOTOR PROTECTION | : BY IC | |
| POLARITY PROTECTION | : NO | |
| CONNECTION LEAD TYPE | : WIRE, AWG# 26 | |
| LIFE EXPECTANCY | : 40000 Hours at 40℃ / 65% RH | |
| NET WEIGHT | : 39 Gram. | |
| PACKING | : 390 pcs. Per Export Carton. | い時代は |
| | | · · · · · · · · · · · · · · · · · · · |
| for the standard testing. | | |
| - | fer to the environmental conditions specified in the | 019.04.15 |
| acknowledgement document. | | 發行章 |
| | | |
| | | - |
| ADDA CORPORATION | Model No.: AG06012HX159601 | Page 1/7 |
| | | |

SPECIFICATION



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 $^\circ\!{\rm C}$ to +70 $^\circ\!{\rm C}$ 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

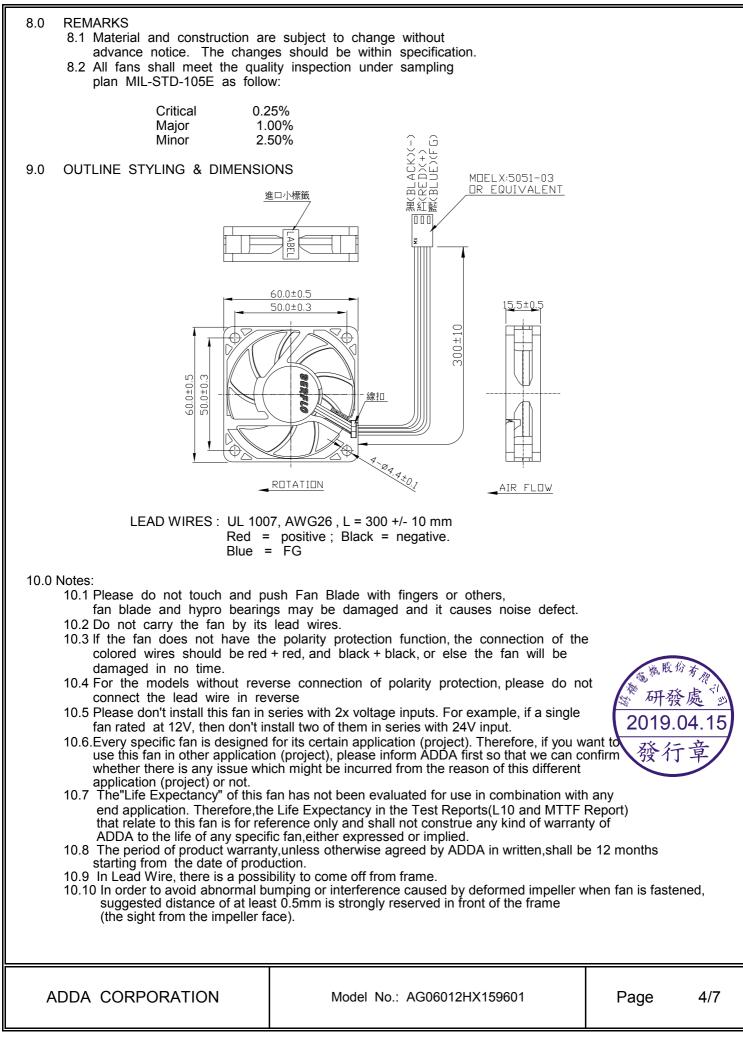
After 96 hours, 95% RH, 40+/-2 $^{\circ}$ C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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



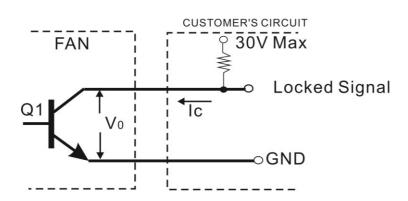




*Output type.....Open collector type

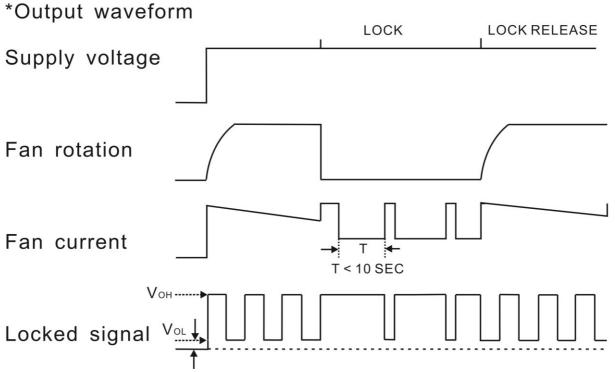
*Electrical design suggestion:

(External signal function design is decided by customer)

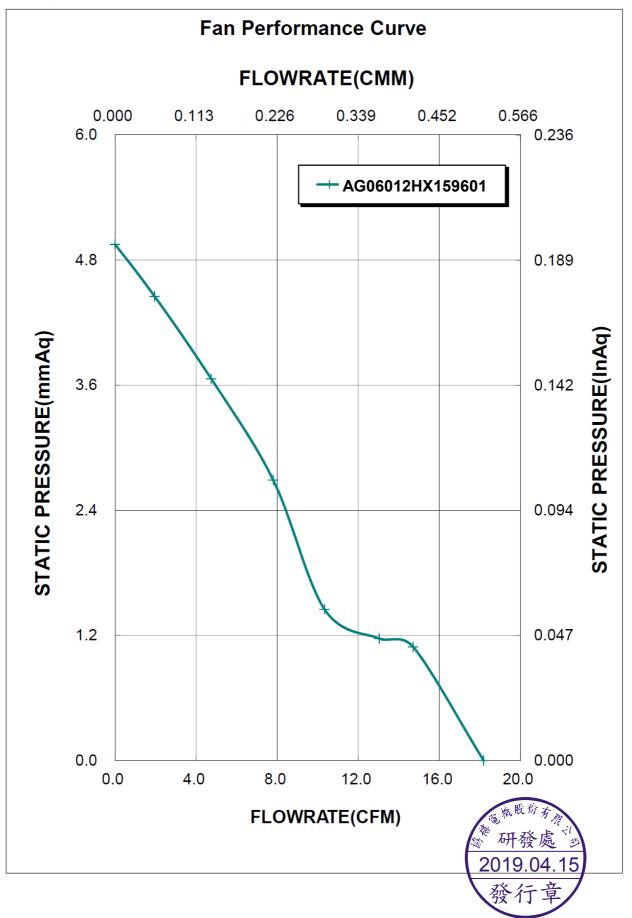


*Transistor Q1 at "ON" position Collector current.....I_c=10mA Max Saturation Voltage.....V_{oL}=1.0V Max (Between Collector and Emitter at I_c=10mA) *Transistor Q1 at "OFF" position Release Voltage.....V_{OH}=30V Max







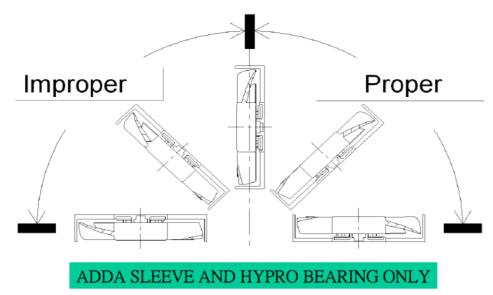


* Sleeve 與 Hypro軸承裝置說明:



*Sleeve與Hypro軸承有裝置上的受限,不正常區域的運用(Improper)可能有共震與噪音的現象產生

• Please be cautions sleeve and hypro bearing fans mounting. Improper mounting of the fan may cause excess resonance • vibration and subsequent noise.





| Zertifikat Cer | tificate | | | E R |
|--|--|--|---------------------------------|---|
| ertifikat Nr. Certificate No. 50111797 | Blatt Page 0107 | | 1/4 | TÜVRheinland |
| hr Zeichen Client Reference .2102504/ST | Unser Zeichen Our K ZTW1-YML- 11 | | Ausstellungsdatum 12.12.2017 | Date of Issue (day/mo/yr) |
| Genehmigungsinhaber License A dda Corporation 5, East Section, In Pingtung City 900 Caiwan, R.O.C. | | ADDA Elect (Kunshan), No. 88, Ji Zhangpu To | ty, Jiangsu P | |
| TÜVRheinland ZERTIFIZIERT | Geprüft nach Tested EN 60950-1: | | +A12+A2 | |
| Zertifiziertes Produkt (Gerät Certified Product (Produ | eidentifikation) | | | entgelte - Einheit Fee - Unit |
| | | | 2.000.000 | |
| ventilator (DC Fan) | | | | |
| <u>Ventilator</u> (DC Fan) wie Blatt (as page) 01 | | n) | | |
| wie Blatt (as page) 01 | , Ergänzung (Additio | | land | 1 |
| wie Blatt (as page) 01 Bezeichnung : 1 | | (ADDA, BERFLO) | | 1 |
| wie Blatt (as page) 01 Bezeichnung : 1 (Type Designation) 2 | , Ergänzung (Addition) AG06012Z1Z2159Z301 | (ADDA, BERFLO) (ADDA, BERFLO) |) | |
| wie Blatt (as page) 01 Bezeichnung : 1 (Type Designation) 2 3 4 | , Ergänzung (Addition) AG06012Z1Z2159Z301) AG06005Z1Z2159Z301) AG06024Z1Z2159Z301) AG06005Z1Z2159Z301 | (ADDA, BERFLO) (ADDA, BERFLO) (ADDA, BERFLO) (ADDA, BERFLO) | | l |
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