SPECIFICATION FOR APPROVAL
MODEL NO. :AD2012LB-G70P.S P.S DESCRIPTION :
● 研發處 2019.07.02 没行 変行 ADDA CORPORATION ADDA CORPORATION

DATA-SHEET

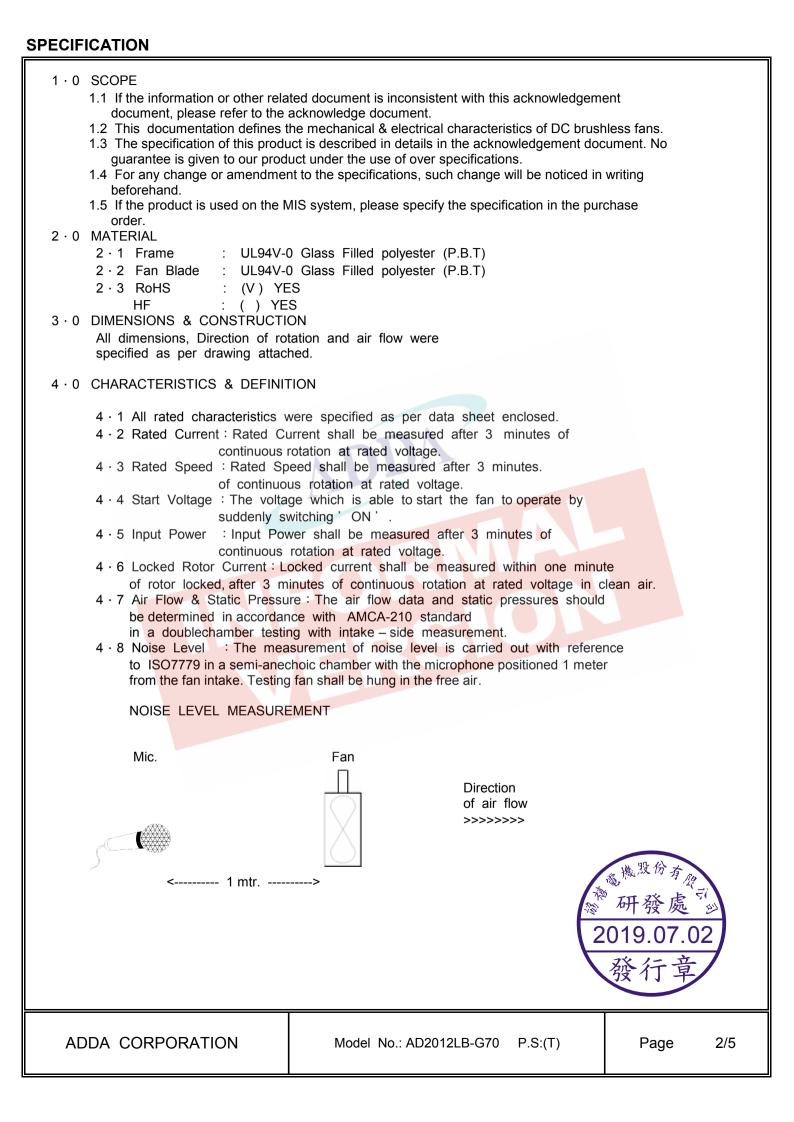
Engineering

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19/07/02

BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS)
Adda Model No	: AD2012LB-G70 P.S: (T)	
Samples attached	: Piece(s),	
Safety Approval	: CE CE:EN 61000-6-1:2007	
	EN 61000-6-3:2007+A1	
<u>Specifications</u>		
ITEM	PECIFICATION / CONDITION	
DIMENSIONS	: 20x20x10 mm	
BEARING TYPE	: TWO BALL	
RATED VOLTAGE	: 12.0 VDC	
OPERATING VOLTAGE RANGE	: 10.8 VDC – 13.2 VDC	
START-UP VOLTAGE	: 9.0 VDC ,NORMAL	
REAL CURRENT	: 0.06 Amp	
REAL POWER	: 0.72 Watt	
RATED CURRENT	: 0.07 Amp + 10 %MAX	
RATED POWER	: 0.84 Watt	
RATED SPEED	: 9000 RPM ± 20 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 0.500 CFM (min.: 0.400 CFM)	
AIR FLOW	: 0.014 CMM (min.: 0.011 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRE <mark>SSURE</mark>	: 0.040 Inch H ₂ O (min.: 0.025 Inch H ₂ O)	
STATIC AIR PRES <mark>SURE</mark>	: 1.016 mm H ₂ O (min.: 0.650 mm H ₂ O)	
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	: 18.0 dB (A) (max.: 22.0 dB(A))	
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	: NO	
CONNECTION LEAD TYPE	: WIRE, AWG# 28	
LIFE EXPECTANCY	: 70000 Hours at 40 $^\circ\!\mathrm{C}$ / 65% RH	
NET WEIGHT	: 6 Gram.	
PACKING	: 980 pcs. Per Export Carton.	T AR
Unless otherwise stated, the relative hun	1	気が
for the standard testing.		
-	to the environmental conditions specified in the	.02
acknowledgement document.	入發行:	貢
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ADDA CORPORATION	Model No.: AD2012LB-G70 P.S: (T)	Page 1/5



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

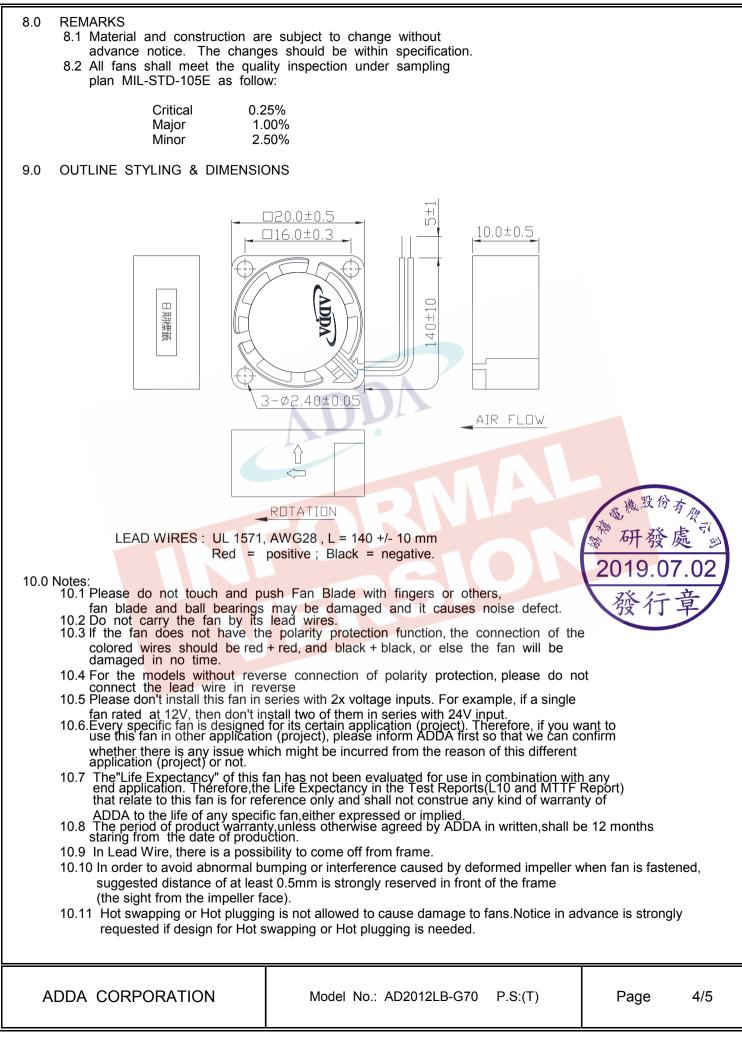
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

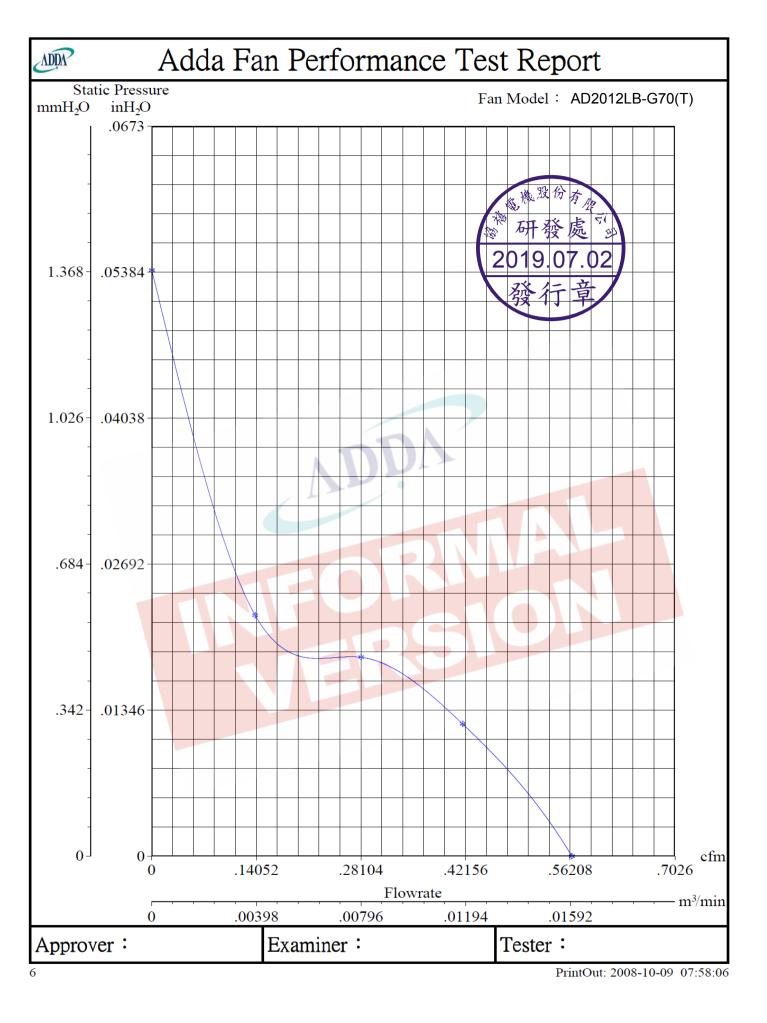
7.5 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.



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SPECIFICATION





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