SPECIFICATION FOR APPROVAL
MODEL NO. :AB05112UB150300 P.S DESCRIPTION : SPEC NO. : ISSUE DATE : REVISION :
THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. 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.
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DATA-SHEET

Engineering

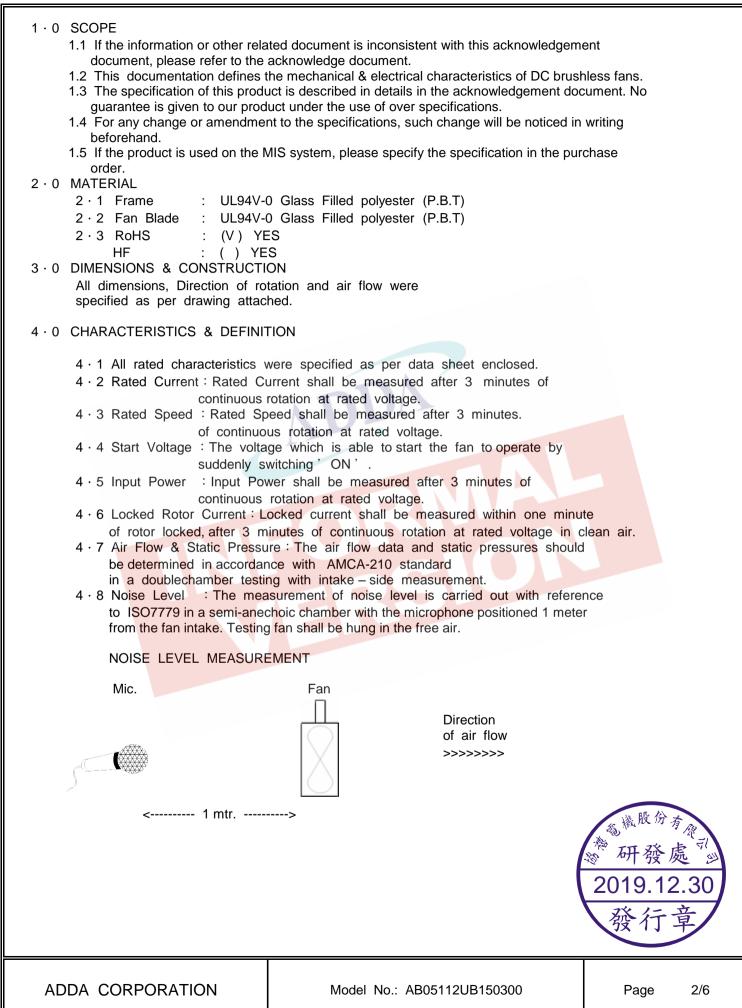
Printed On:

19/12/30

BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS)	
Adda Model No	: AB05112UB150300		
Samples attached	: Piece(s),		
Safety Approval		TUV:EN 60950-1:2006+A11+A1+A12+A2	
		0-6-1:2007 5-3:2007+A1	
Specifications			
ITEM	SPECIFICATION / CONDITION		
DIMENSIONS	: 51x51x15 mm		
BEARING TYPE	: TWO BALL		
RATED VOLTAGE	: 12.0 VDC		
OPERATING VOLTAGE RANGE	: 10.8 VDC - 13.2 VDC		
START-UP VOLTAGE	: 7.0 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	: 6500 RPM ± 10 %		
	(IN FREE AIR AT RATED VOLTAGE	Ξ)	
AIR FLOW	: 4.730 CFM (min.: 4.257 CFM)		
AIR FLOW	: 0.133 CMM (min.: 0.119 CMM)		
	(IN FREE AIR AT RATED VOLTAGE	Ξ)	
STATIC AIR PRESSURE	: 0.790 Inch H ₂ O (min.: 0.639 In	ch H ₂ O)	
STATIC AIR PRES <mark>SURE</mark>	: 20.066 mm H ₂ O (min.: 16.253 m	m H ₂ O)	
	(IN FREE AIR AT RATED VOLTAGE	Ξ)	
NOISE LEVEL	: 44.3 dB (A) (max.: 48.3 dB(A))		
MOTOR PROTECTION	: BY IC		
POLARITY PROTECTION	: YES		
CONNECTION LEAD TYPE			
LIFE EXPECTANCY	: 70000 Hours at 40°C / 65% R	Н	
NET WEIGHT	: 27 Gram.		
PACKING	: 480 pcs. Per Export Carton.	藏藏股份有原	
Unless otherwise stated, the relative he	umidity is 65%, and the temperature is 25 $^\circ\!\!\mathbb{C}$	^物 研發處 ¹	
for the standard testing.			
-	er to the environmental conditions specified in the	2019.12.30	
acknowledgement document.		發行章	
ADDA CORPORATION	Model No.: AB05112UB150300	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° to $+70^{\circ}$ with a 24 hour recovery period at room temperature.

7.4 Humidity

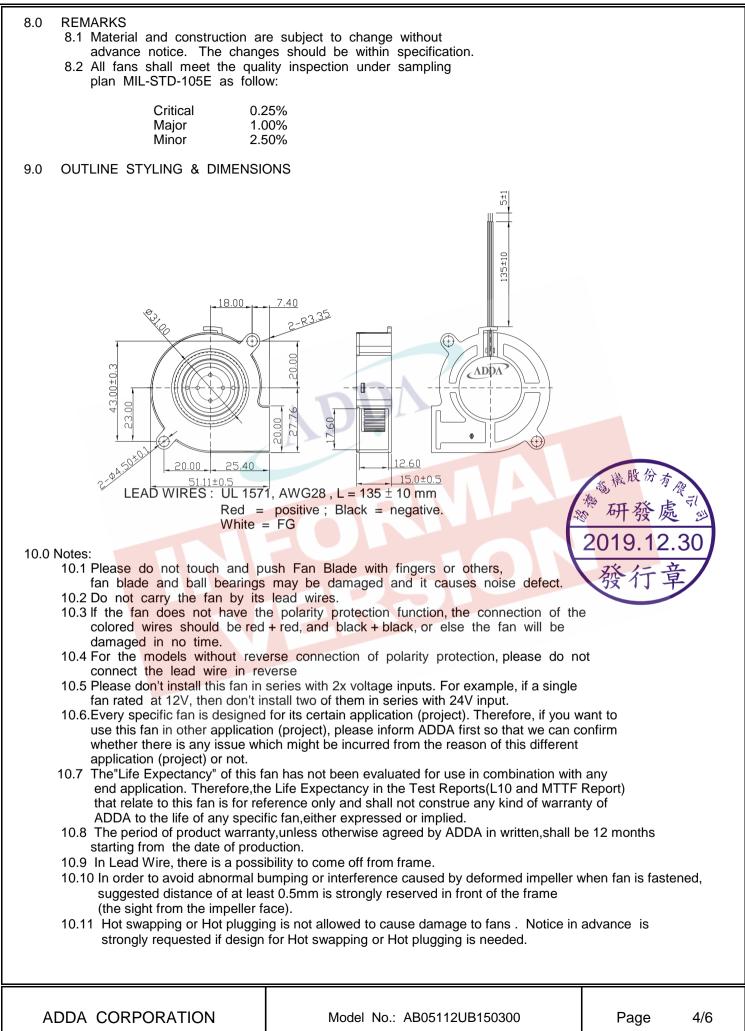
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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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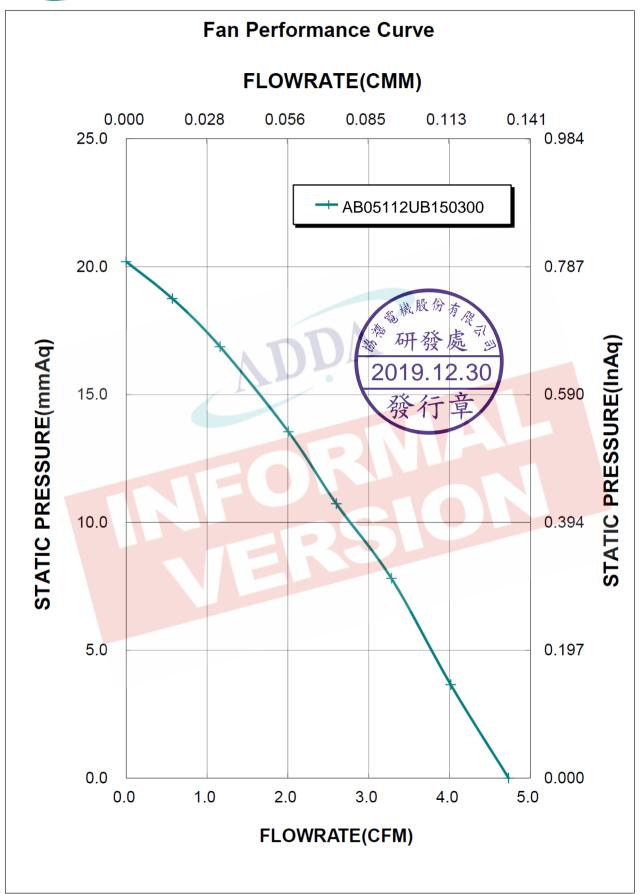
SPECIFICATION





Output of locked signal *Output type.....Open collector type *Electrical design suggestion: (External signal function design is decided by customer) CUSTOMER'S CIRCUIT 15V Max FAN Locked Signal lc Q1 Vo OGND *Transistor Q1 at "ON" position Collector current.....I_c=10mA Max Saturation Voltage.....VoL=1.0V Max (Between Collector and Emitter at Ic=10mA) *Transistor Q1 at "OFF" position Release Voltage.....V_{oH}=15V Max *Output waveform LOCK LOCK RELEASE Supply voltage Fan rotation Fan current Т T < 10 SEC IF LQCKED MAYBE HIGH OR LOW Vон---Locked signal Vol





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ADDA: AB05112UB-150300-LF