SPECIFICATION FOR APPROVAL
MODEL NO. :AD5012MB-C71 P.S
DESCRIPTION :
SPEC NO. : SA-0120181004003
ISSUE DATE : 2019.10.08
REVISION : <u>C</u> 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

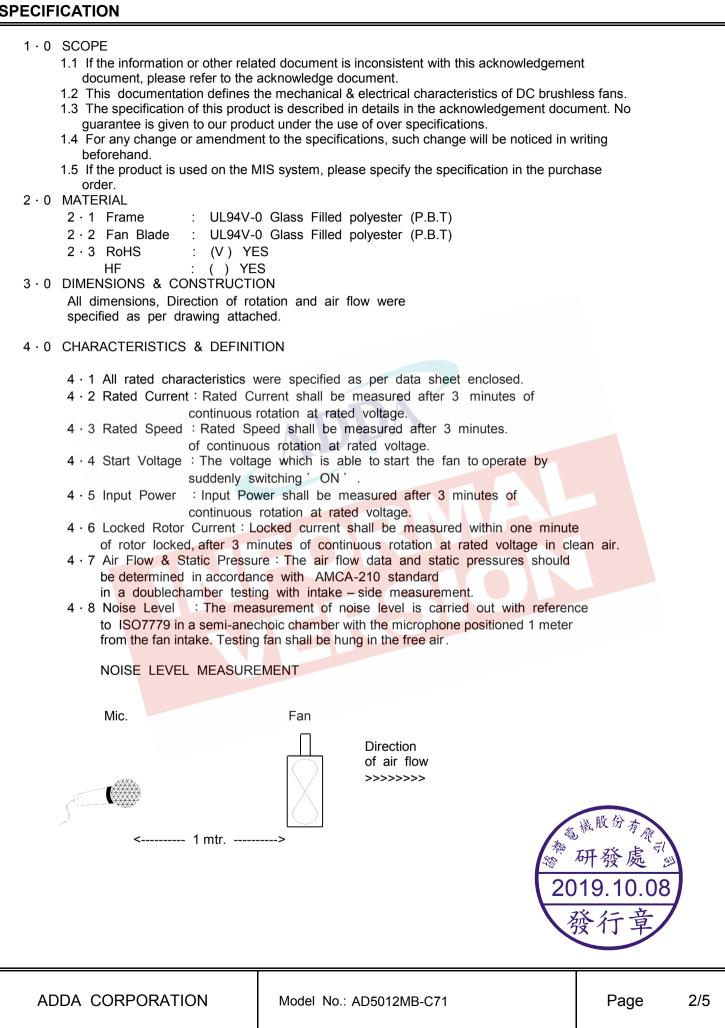
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18/10/11

BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS)
Adda Model No	: AD5012MB-C71	
Samples attached	: Piece(s),	
Safety Approval	: UL,CUL,TUV,CE TUV:EN 60950-1:2006+ UL:UL507 CE:EN 61000-6-1:2007 EN 61000-6-3:2007+A1	
Specifications		
ITEM	SPECIFICATION / CONDITION	
DIMENSIONS	: 50x50x20 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	: 0.10 Amp	
REAL POWER	: 1.20 Watt	
RATED CURRENT	: 0.15 Amp + 10 %MAX	
RATED POWER	: 1.80 Watt	
RATED SPEED	: 4300 RPM ± 10 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 14.000 CFM (min.: 12.600 CFM)	
AIR FLOW	: 0.396 CMM (min.: 0.356 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRE <mark>SSURE</mark>	: 0.108 Inch H ₂ O (min.: 0.087 Inch H ₂ O)	
STATIC AIR PRES <mark>SURE</mark>	: 2.743 mm H ₂ O (min.: 2.221 mm H ₂ O)	
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	: 30.8 dB (A) (max.: 34.8 dB(A))	
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	: YES	
CONNECTION LEAD TYPE	: WIRE, AWG# 26	
LIFE EXPECTANCY	: 70000 Hours at 40℃ / 65% RH	
NET WEIGHT	: 32 Gram.	
PACKING	: 416 pcs. Per Export Carton.	份有一
for the standard testing.	nidity is 65%, and the temperature is 25° to the environmental conditions specified in the	资 <u>度</u> 资 <u>度</u> 10.08 于章
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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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