SPECIFICATION FOR APPROVAL
то :
REF. No
APPROVED DATE 研發處 2013.04.02 簡文榮 CHECKED DATE 研發處 2013.04.02 李文琦 徐俊祺 PREPARED DATE 研發處 2013.04.02 策凍慧
MODEL No. <u>AD0512UB-G73</u> P.S DESCRIPTION: <u>DC FAN (RoHS)</u> REV. <u>A</u>
ID No
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.
<ul> <li>一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一</li></ul>
ADDA ADDA CORPORATION

DATA-SHEET	D	A	Т	Α	-	S	Н	Е	Ε	Т
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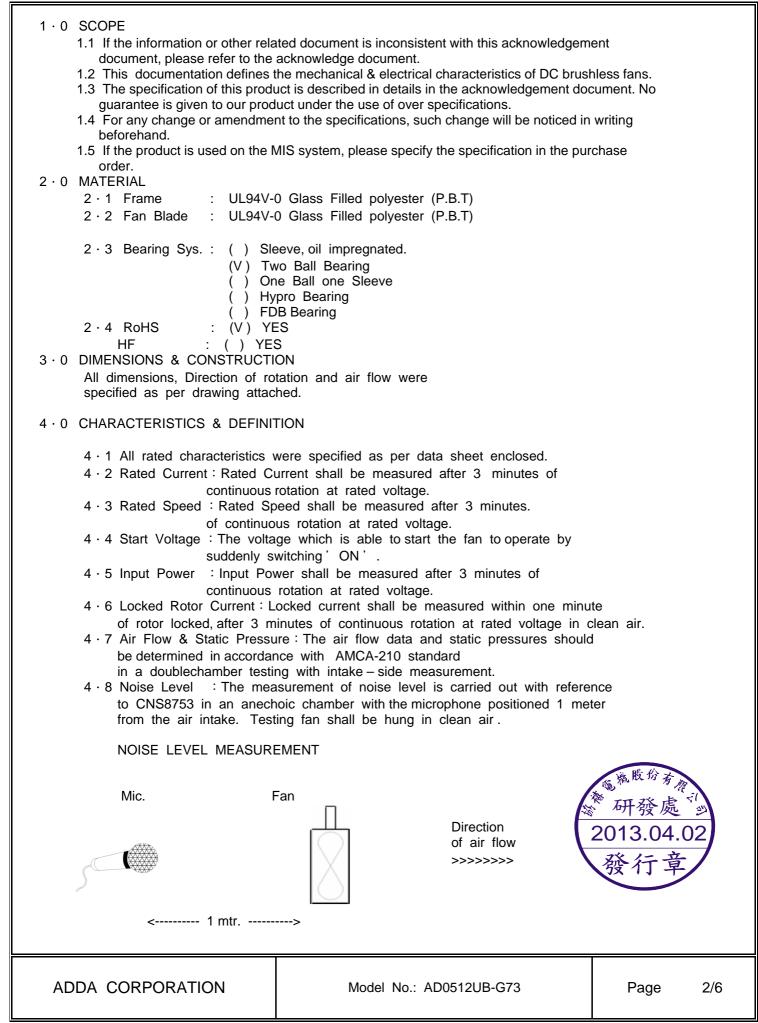
Engineering

```
BRUSHLESS AXIAL COOLING FANS
Customer
                                                                                            Ref: (RoHS)
                                  :
Adda Model No
                                  : AD0512UB-G73
Samples attached
                                  :
                                               Piece(s),
Safety Approval
                                  : CE
                                                                       CE:EN 61000-6-1:2007
                                                                       EN 61000-6-3:2007
Specifications
 ITEM
                                  SPECIFICATION / CONDITION
 DIMENSIONS
                                  : 50x50x10
                                                mm
 BEARING TYPE
                                  : BALL
 RATED VOLTAGE
                                  : 12.0
                                               VDC
 OPERATING VOLTAGE RANGE
                                  : 10.8
                                               VDC
                                                               13.2
                                                                     VDC
                                              VDC
 START-UP VOLTAGE
                                  : 9.0
                                                      . 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
                                  : 5600
                                               RPM
                                                             15
                                                                      %
                                                       ±
                                             (IN FREE AIR AT RATED VOLTAGE)
 AIR FLOW
                                  : 12.270
                                              CFM
                                                      (min.:
                                                              10.429 CFM)
                                  : 0.347
 AIR FLOW
                                              CMM
                                                      (min.:
                                                              0.294
                                                                      CMM)
                                             (IN FREE AIR AT RATED VOLTAGE)
 STATIC AIR PRESSURE
                                  : 0.127
                                              Inch H<sub>2</sub>O
                                                             (min.:
                                                                     0.091
                                                                             Inch H<sub>2</sub>O)
 STATIC AIR PRESSURE
                                  : 3.225
                                              mm H<sub>2</sub>O
                                                             (min.:
                                                                     2.330
                                                                            mm H_2O)
                                             (IN FREE AIR AT RATED VOLTAGE)
                                  : 31.0
 NOISE LEVEL
                                              dB (A) (max.:
                                                               35.0
                                                                     dB(A))
 MOTOR PROTECTION
                                               IC
                                  : BY
 POLARITY PROTECTION
                                  : NO
 CONNECTION LEAD TYPE
                                  : WIRE, AWG#
                                                      26
 LIFE EXPECTANCY
                                  : 70000
                                              Hours
                                                      at
                                                             40°C
                                                                     / 65%
                                                                             RH
 NET WEIGHT
                                  : 18
                                               Gram.
 PACKING
                                  : 480
                                              pcs. Per Export Carton.
 Unless otherwise stated, the relative humidity is 65%, and the temperature is 25^{\circ}C
                                                                                  20
 for the standard testing.
 Should you have any doubt, please refer to the environmental conditions specified in the
 acknowledgement document.
   ADDA CORPORATION
                                                                                             Page 1/6
                                   Model No.:
                                              AD0512UB-G73
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13/04/02

## 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  $-40^{\circ}$ C to  $+70^{\circ}$ C with a 24 hour recovery period at room temperature.

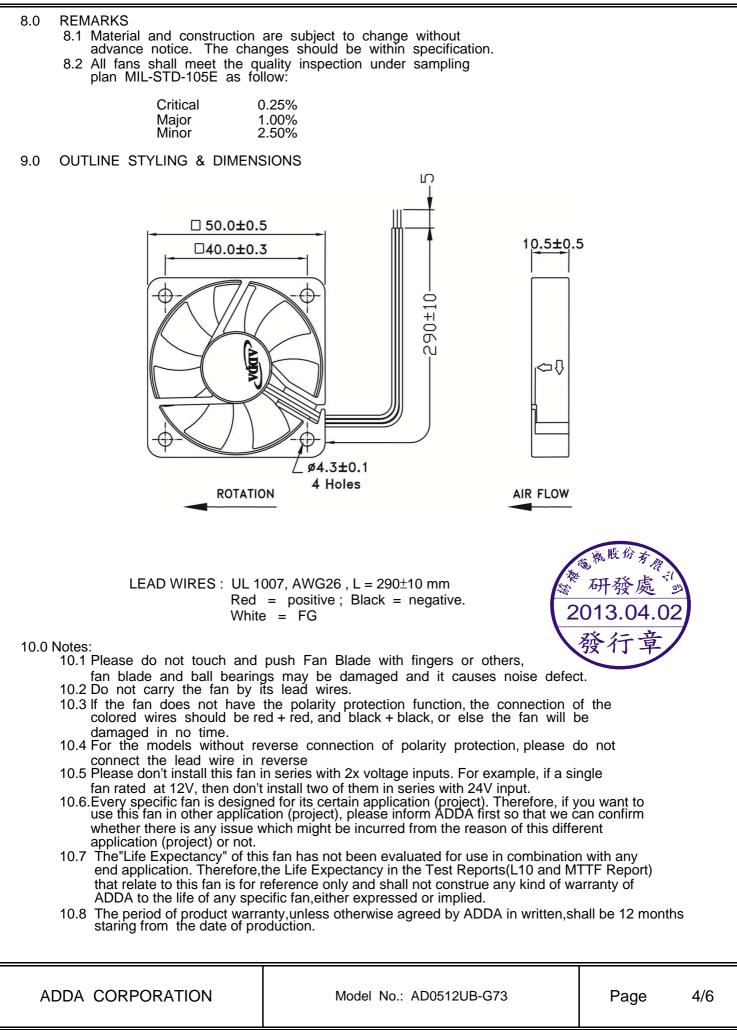
7.4 Humidity

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. Do not store the fan for over 6 months; even if the fan is stored in room temperature for over 6 months, the fan may have the electric current leakage.



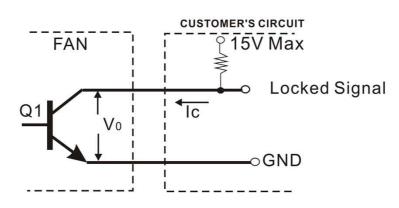
## SPECIFICATION





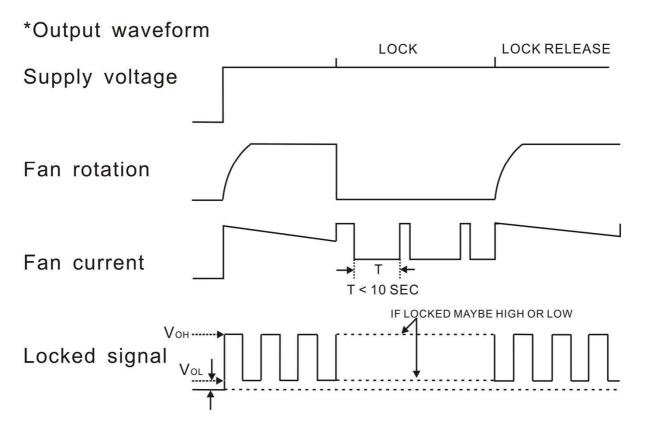
Output of locked signal \*Output type.....Open collector type \*Electrical design suggestion:

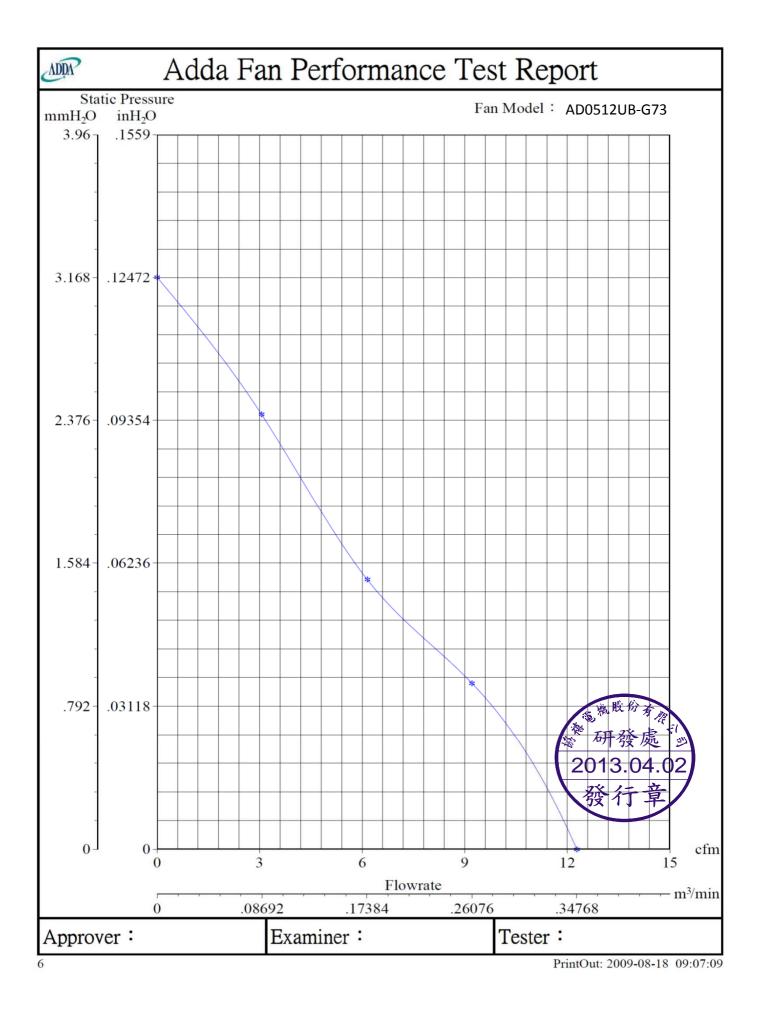
(External signal function design is decided by customer)



\*Transistor Q1 at "ON" position Collector current......I<sub>c</sub>=10mA Max Saturation Voltage.....V<sub>oL</sub>=1.0V Max (Between Collector and Emitter at I<sub>c</sub>=10mA) \*Transistor Q1 at "OFF" position Release Voltage......V<sub>OH</sub>=15V Max







Page 6/6

Zertifikat	Certificate			Δ
Zertifikat Nr. Certificate No. R 50013934	Blatt Page			
Ihr Zeichen Client Reference 12025766	Unser Zeichen ( ZTW2 - SHH-	<i>Dur Reference</i> 11001058 014	Ausstellungsdatum 04.08.2004	Date of Issue (day/mo/yr)
Genchmigungsinhaber License H Adda Corporation 6, East Section, Ind Pingtung City 900 Taiwan, R.O.C.		Adda Corpo	ection, Indust City 900	
Prüfzeichen Test Mark	Geprüft nach Z EN 60950:	<i>Tested acc. to</i> 2000		
TÜV TÜV Rheinland Product Safety				
Certified Product (Produ Ventilator (DC Fan) Wie Blatt (As Page) 01	eidentifikation) ct Identification)			ventgelte - Einheit ve Fee - Unit
Ergänzung (Addition) Bezeichnung : A (Type Designation)	AD05Z1Z2Z3-G7Z4			1
Zl steht für : (stands for)	05 oder (or) 12 H, M oder (or) L	· · · · · · · · · · · · · · · · · · ·		1
(stands for)	B, S oder (or) X			1
(stands for) Nennspannung : (Rated Voltage) Nennstrom :	1, 2 oder (or) 3 siehe Anlage (see appendix) siehe Anlage (see appendix)	Rheinla	and	1
ANLAGE (Appendix):	1.12	Formizierung	selelle	5
Dem Zertifikat liegt unsere Prüf- und Z Das Produkt entspricht den o.g. Anfora This certificate is based on our Testing fulfills above-mentioned-requirements, th	ertifizierungsordnung zugrund lerungen, die Herstellung wir and Certification Regulation	The product	Zertifizierung	
TÜV Rheinland Product Safet			n	2013.04.02
Tel.:(+49/221)8 06 - 13 71 Fax:(+4			DiplIng. M.	發行草 Kröger

12/020 7.950

Zertifikat	Certificate			
elei tiirat	Cerujicale			®
<b>Zertifikat Nr.</b> Certificate No. R 50013934	Blatt Page 0033			TÜVRheinland
hr Zeichen Client Reference	Unser Zeichen O ZTW1-YML- 1	ur Reference L1001058 030	Ausstellungsdatum 15.08.2012	Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Adda Corporation 5, East Section, Inc Pingtung City 900 Faiwan, R.O.C.		Adda Corpo	ection, Indust City 900	
TUVRINGINANG TUVRING TUVRINGINANG TUVRING T	Geprüft nach Te EN 60950-1	sted acc. to L:2006+A11+A1	.+A12	
Zertifiziertes Produkt (Geräte				entgelte - Einheit
-	t Identification)		Licens	e Fee - Unit
<u>Ventilator</u> (DC Fan)				
wie Blatt (as page) 01				
Änderung (Change)				
	ehe oben ee above)			
				<sup>●</sup> 研發處 <sup>™</sup> 」 2013.04.02
ANLAGE (Appendix): 1	1 - 1.24			發行章
m Zertifikat liegt unsere Prüf- und Zert s Produktes mit den oben genannten St Ländern, in denen das Produkt in Ven trachtet werden. Die Herstellung des ze is certificate is based on our Testing a the product with the standards and tes	tifizierungsordnung zugrunde uu andards und Prüfgrundlagen. kehr gebracht werden soll, mil rüfizierten Produktes wird übei nd Certification Regulation and	Zusätzliche Anforderungen issen zusätzlich rwacht. 1 states the conformity above. Any additional	mität Zertifizierungss	telle
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