SPECIFICATION FOR APPROVAL
TO :
REF. No
CUSTOMER APPROVED DATEAPPROVED DATECHECKED DATEPREPARED DATE研發處 2017.10.30 簡文榮研發處 2017.10.30 利俊宏研發處 2017.10.30 周頤幀研發處 2017.10.30 原佩如
MODEL No. AD1224UX-A73GL P.S. DESCRIPTION: DC FAN (RoHS) REV. B 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.
ADDA ADDA CORPORATION

<u>DATA-SHEET</u>

Engineering

BRUSHLESS AXIAL COOLING FANS

Printed On: 1

17/10/30

Customer	:	Ref: (RoHS)
Adda Model No	: AD1224UX-A73GL	
Samples attached	: Piece(s),	
Safety Approval	UL,CUL,TUV,CE	TUV:EN 60950-1:2006+A11+A1+A12+A2
<u>Specifications</u>		UL:UL507 CE:EN 61000-6-1:2007
ITEM	SPECIFICATION / CONDITION	EN 61000-6-3:2007+A1
DIMENSIONS	: 120x120x25 mm	
BEARING TYPE	: HYPRO	
RATED VOLTAGE	[:] 24 VDC	
OPERATING VOLTAGE RANGE	: 21.6 VDC – 2	26.4 VDC
START-UP VOLTAGE	: 17 VDC , NORMAI	-
REAL CURRENT	[:] 0.19 Amp	
REAL POWER	[:] 4.56 Watt	
RATED CURRENT	[:] 0.25 Amp + 10	%MAX
RATED POWER	[:] 6.00 Watt	
RATED SPEED	: 2500 RPM ± 10	%
	(IN FREE AIR AT R	ATED VOLTAGE)
AIR FLOW	: 98.965 CFM (min.: 89	9.068 CFM)
AIR FLOW	: 2.800 CMM (min.: 2	.520 CMM)
	(IN FREE AIR AT R	ATED VOLTAGE)
STATIC AIR PRESSURE	: 0.174 Inch H_2O (m	in.: 0.140 Inch H ₂ O)
STATIC AIR PRESSURE	: 4.419 mm H ₂ O (m	in.: 3.579 mm H ₂ O)
	(IN FREE AIR AT R	ATED VOLTAGE)
NOISE LEVEL	: 43.3 dB (A) (max.: 4	47.3 dB(A))
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	[:] NO	
CONNECTION LEAD TYPE	[:] WIRE, AWG# 24	
LIFE EXPECTANCY	: 40000 Hours at 40°	°C / 65% RH
NET WEIGHT	[:] 156 Gram.	
PACKING	: 60 pcs. Per Export Ca	arton.

Unless otherwise stated, the relative humidity is 65%, and the temperature is $25^\circ\!\!\mathbb{C}$

for the standard testing.

Should you have any doubt, please refer to the environmental conditions specified in the acknowledgement document.



SPECIFICATION

1 · 0 SCOPE

- 1.1 If the information or other related document is inconsistent with this acknowledgement document, please refer to the acknowledge document.
- 1.2 This documentation defines the mechanical & electrical characteristics of DC brushless fans.
- 1.3 The specification of this product is described in details in the acknowledgement document. No guarantee is given to our product under the use of over specifications.
- 1.4 For any change or amendment to the specifications, such change will be noticed in writing beforehand.
- 1.5 If the product is used on the MIS system, please specify the specification in the purchase order.
- 2 · 0 MATERIAL
 - 2 · 1 Frame : UL94V-0 Glass Filled polyester (P.B.T)
 - 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T)
 - 2 · 3 RoHS : (V) YES
 - HF : () YES
- 3 · 0 DIMENSIONS & CONSTRUCTION All dimensions, Direction of rotation and air flow were specified as per drawing attached.

4 · 0 CHARACTERISTICS & DEFINITION

- $4\cdot 1$ All rated characteristics were specified as per data sheet enclosed.
- 4 · 2 Rated Current : Rated Current shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 3 Rated Speed : Rated Speed shall be measured after 3 minutes. of continuous rotation at rated voltage.
- $4\cdot 4$ Start Voltage : The voltage which is able to start the fan to operate by suddenly switching ' ON ' .
- 4 · 5 Input Power : Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 6 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4 · 7 Air Flow & Static Pressure : The air flow data and static pressures should be determined in accordance with AMCA-210 standard in a doublechamber testing with intake – side measurement.
- 4 · 8 Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

NOISE LEVEL MEASUREMENT

Fan

<----- 1 mtr. ----->

Direction of air flow



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Mic.

Model No.: AD1224UX-A73GL

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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

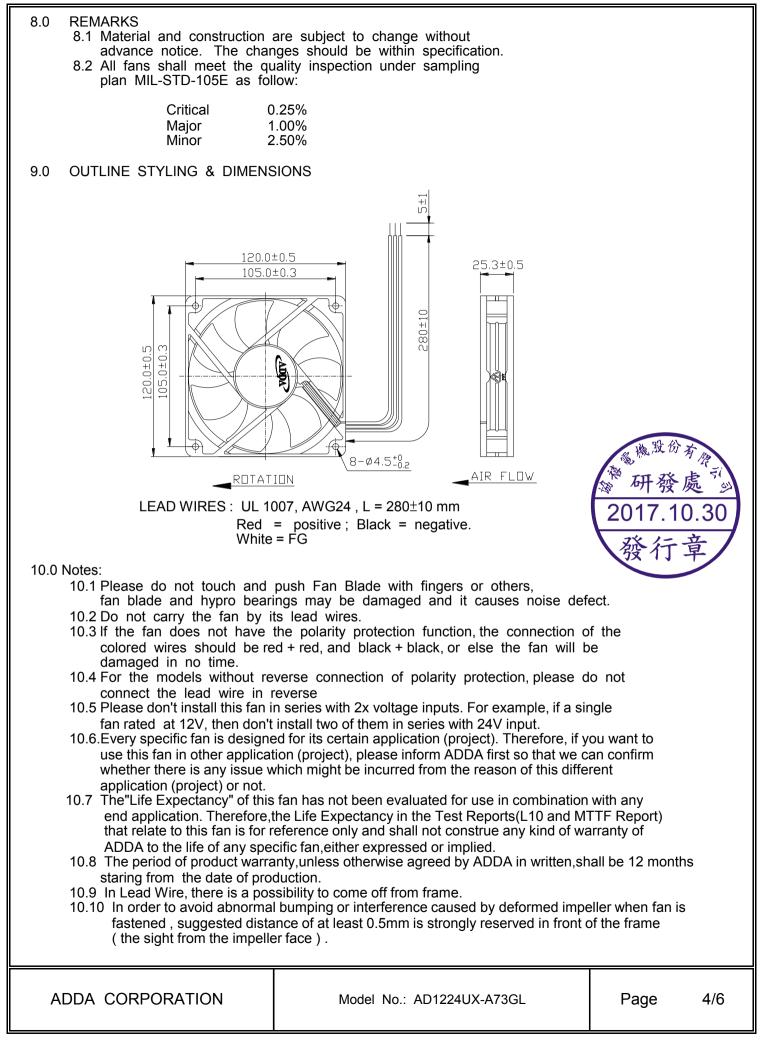
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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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SPECIFICATION



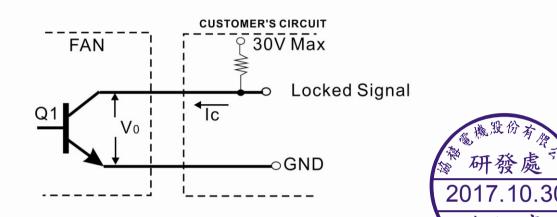


Output of locked signal

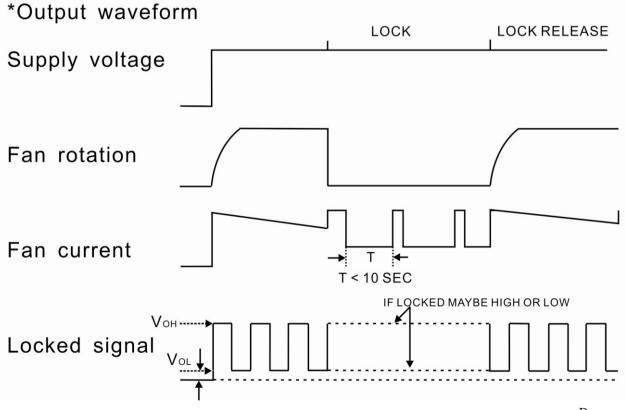
*Output type......Open collector type

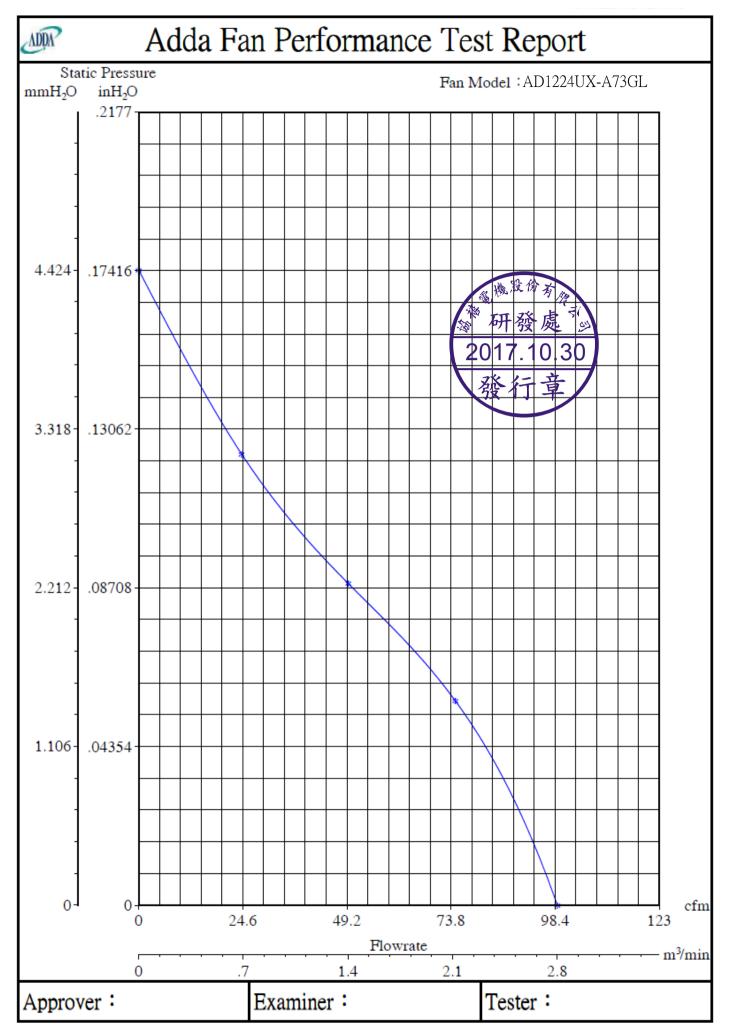
*Electrical design suggestion:

(External signal function design is decided by customer)



*Transistor Q1 at "ON" position Collector current.....I_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



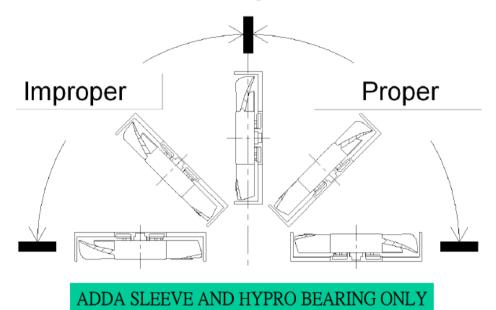


* Sleeve 與 Hypro軸承裝置說明:



*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像產生.

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





Zertifikat	Certificate			
ertifikat Nr. <i>Certificate No.</i> 50068602	Blatt Page		TÜY	
nr Zcichen <i>Client Reference</i> 2031916	Unser Zeichen Ou ZTW2-MRC- 1		usstellungsdatum Date of Issu (day/mo/yr)	ıe
enchmigungsinhaber License H dda Corporation , East Section, Ind ingtung City 900 aiwan, R.O.C.		Adda Corpora	tion, Industry 6 Road ty 900	đ
TÜY Rheinland Product Safety TUPE	Geprüft nach Te EN 60950-1			
Zertifiziertes Produkt (Geräte			Lizenzentgelte - Ein Lizenze Fag - Unit	heit
,	t Identification)		License Fee - Unit	
<u>Ventilator</u> (DC Fan)			· · · · · · · · · · · · · · · · · · ·	R
Wie Blatt (As Page) 01			☆ 研發處	્યા
Ergänzung (Addition)			2017.10.	30
Bezeichnung (Type Designation)	: ADZ1Z2Z3Z4-Z5	0202/28	。 發行章	-
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Z5 steht für (stands fo	or) : A, C, D, F, d		r	
Z6 steht für (stands fo	(or) G or) : 5, 7, 9, A, 1	B oder (or) C		
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Z8 steht für (stands fo		(blank) oder (or		
ANLAGE (Appendix):	1		ta BS selle	
) Dem Zertifikat liest unsere Prüf- und Za	ertifizierungsordnung zugrunde.		rorungee	
Das Produkt entspricht den o.g. Anforda his certificate is based on our Testing uffilis above-mentioned-requirements, the	erungen, die Herstellung wird and Certification Regulation.	the product	Zertifizierungsstelle	
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0/020 cl 04.08 (8 TUY, TUEY and TUY are registered Ridemonk). Utilisation and application requires prior approval.

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