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APPROVED     研發處     研發處     研發處       2017.06.09     2017.06.09     2017.06.09       第二章 大弊     2017.06.09     2017.06.09
MODEL NO. : AD08024UX257304
DESCRIPTION :
SPEC NO. : SA-0120170606010
ISSUE DATE : 2017.06.09
REVISION : A00
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 CONFIBMATION OF SAME. 御發處 2017.06.09 發行章
ADDA ADDA CORPORATION

	Revised Record		
Rev.	Revision Description	Change page	Date
A00	Preliminary		2017.06.09
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	₩ 研發處 <sup>1</sup>		
	2017.06.09		
	發行章		

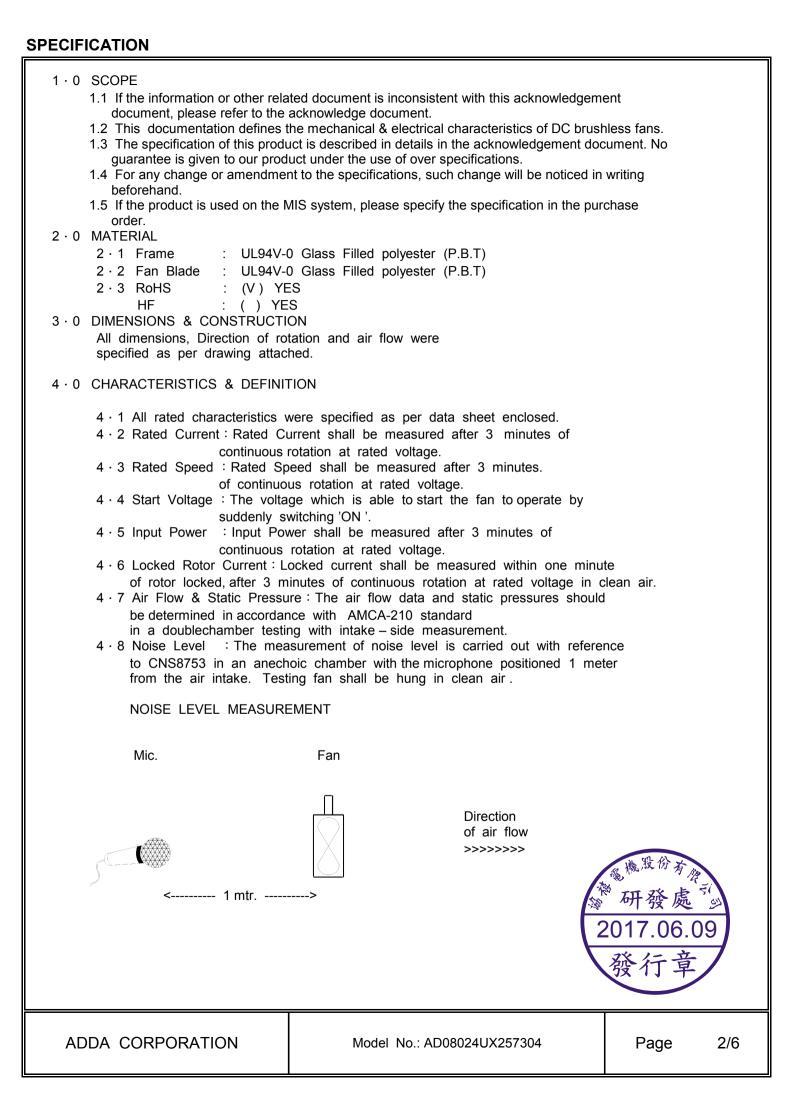
### DATA-SHEET

Engineering

Printed On: 17/06/09

BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS)
Adda Model No	: AD08024UX257304	
Samples attached	: Piece(s),	
Safety Approval	: UL,CUL,TUV,CE TUV:EN 60950-1:2001+A11+ UL:UL507 CE:EN 61000-6-1:2007 EN 61000-6-3:2007+A1	A1+A12+A2
Specifications		
ITEM	SPECIFICATION / CONDITION	
DIMENSIONS	: 80x80x25 mm	
BEARING TYPE	: HYPRO	
RATED VOLTAGE	: 24 VDC	
OPERATING VOLTAGE RANGE	: 21.6 VDC – 26.4 VDC	
START-UP VOLTAGE	: 17.0 VDC ,NORMAL	
REAL CURRENT	: 0.09 Amp	
REAL POWER	: 2.16 Watt	
RATED CURRENT	: 0.16 Amp + 10 %MAX	
RATED POWER	: 3.84 Watt	
RATED SPEED	: 3600 RPM ± 10 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 45.290 CFM (min.: 40.761 CFM)	
AIR FLOW	: 1.281 CMM (min.: 1.152 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.216 Inch $H_2O$ (min.: 0.174 Inch $H_2O$ )	
STATIC AIR PRESSURE	: 5.486 mm $H_2O$ (min.: 4.443 mm $H_2O$ )	
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	: 42.0 dB (A) (max.: 46.0 dB(A))	
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	: YES	
CONNECTION LEAD TYPE	: WIRE, AWG# 24	
LIFE EXPECTANCY	: 40000 Hours at 40 $^\circ\!\!\mathrm{C}$ /65% RH	
NET WEIGHT	: 72 Gram.	
PACKING	: 200 pcs. Per Export Carton.	份有点
for the standard testing.	umidity is 65%, and the temperature is $25^{\circ}$ C fer to the environmental conditions specified in the 發行	發處 <sup>13</sup> .06.09 <b></b>
ADDA CORPORATION	Model No.: AD08024UX257304	Page 1/6



#### 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

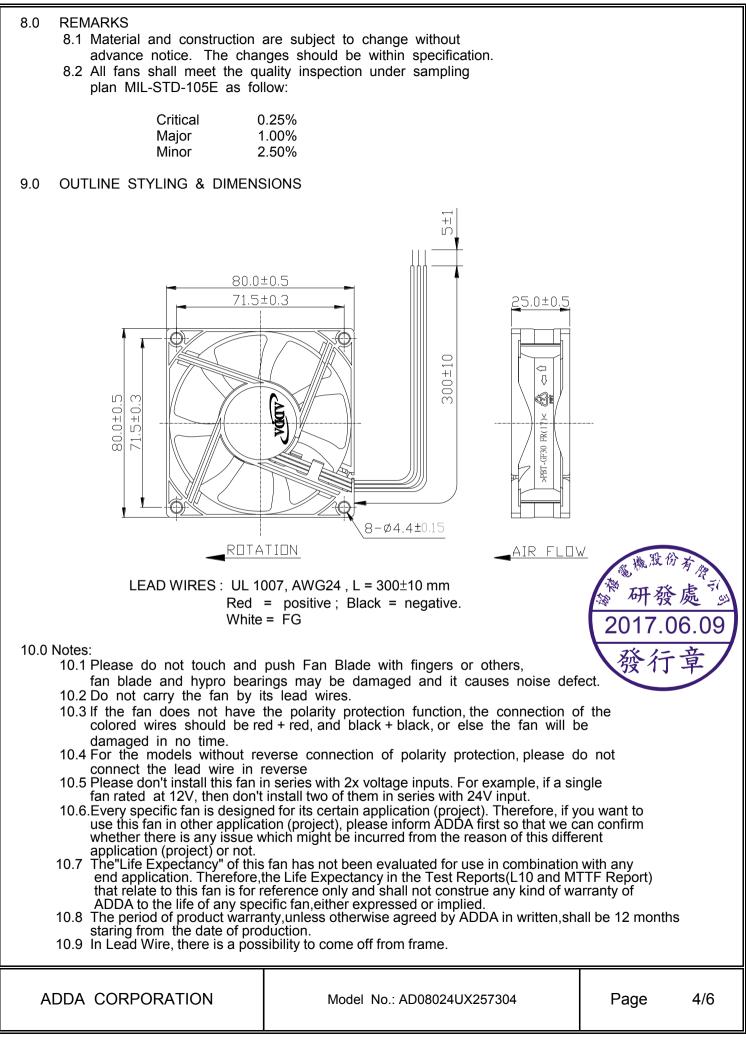
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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



ADDA CORPORATION

#### SPECIFICATION



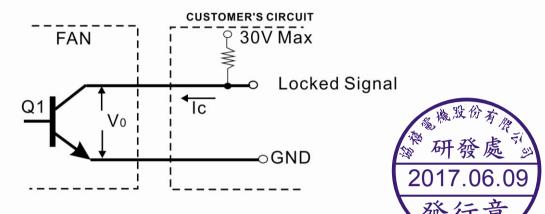


Output of locked signal

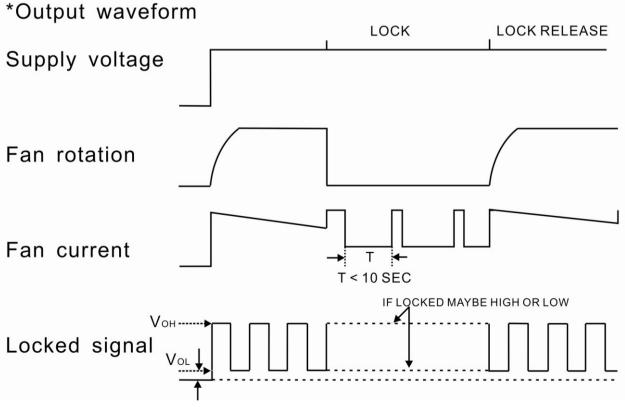
\*Output type.....Open collector type

\*Electrical design suggestion:

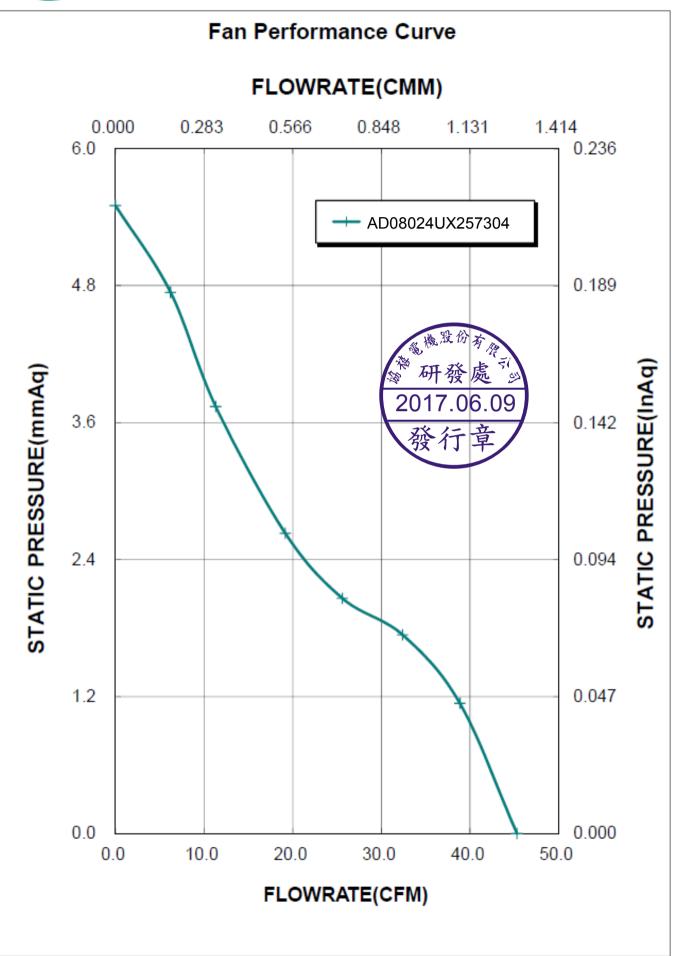
(External signal function design is decided by customer)



\*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>=30V Max





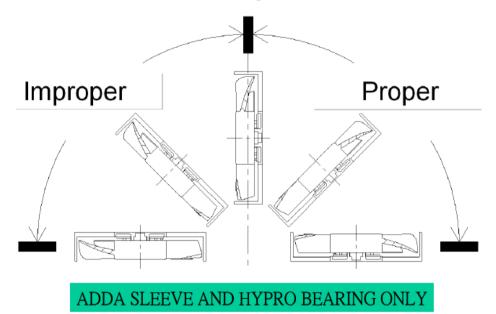


# \* Sleeve 與 Hypro軸承裝置說明:



\*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	е	E.
Zertifikat Nr. Certificate No.Blatt IR 501566930113	-	TÜVRheinland
	-	usstellungsdatum Date of Issue 09.01.2017 (day/mo/yr)
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	eprüft nach Tested acc. to EN 60950-1:2006+A11+A1+A	A12+A2
Zertifiziertes Produkt (Geräteidentifika Certified Product (Product Identific		た Lizenzentgelte - Einheit License Fee - Unit
<u>Ventilator</u> (DC Fan)	2017.0	<u>音</u>
wie Blatt (as page) 01, Ergänz	zung (Addition)	ブ
(Type Designation) 2) AD08024	21Z2257Z304 (ADDA,BERFLO) 21Z2257Z304 (ADDA,BERFLO) 221Z2207Z300 (ADDA,BERFLO)	1 1 1
3) AD06012	dibber about the second	
Zl steht für : 1) X, U, H (stands for) 2) U, H od	Hoder (or) M der (or) M	1
Zl steht für : 1) X, U, H (stands for) 2) U, H od 3) X, U, H Z2 steht für : 1-3) B ode	Hoder (or) M der (or) M H, M, Loder (or) D	1 1
Zl steht für : 1) X, U, H (stands for) 2) U, H od 3) X, U, H Z2 steht für : 1-3) B ode (stands for)	Hoder (or) M der (or) M H, M, Loder (or) D er (or) X B, 9, Boder (or) F (or) 6	
<pre>Z1 steht für : 1) X, U, H (stands for) 2) U, H od 3) X, U, H Z2 steht für : 1-3) B ode (stands for) Z3 steht für : 1) 1, 2, 3 (stands for) 2) 0 oder</pre>	Hoder (or) M der (or) M H, M, Loder (or) D er (or) X B, 9, Boder (or) F (or) 6 der (or) 3	1
<pre>Z1 steht für : 1) X, U, H (stands for) 2) U, H od 3) X, U, H Z2 steht für : 1-3) B ode (stands for) Z3 steht für : 1) 1, 2, 3 (stands for) 2) 0 oder 3) 1, 2 od Nennspannung : 1-2) DC 24</pre>	Hoder (or) M der (or) M H, M, Loder (or) D er (or) X B, 9, Boder (or) F (or) 6 der (or) 3 EV EV age	1
<pre>Z1 steht für : 1) X, U, H (stands for) 2) U, H od 3) X, U, H Z2 steht für : 1-3) B ode (stands for) Z3 steht für : 1) 1, 2, 3 (stands for) 2) 0 oder 3) 1, 2 od Nennspannung : 1-2) DC 24 (Rated Voltage) 3) DC 12 Nennstrom : siehe Anla (Rated Current) (see appen)</pre>	Hoder (or) M der (or) M H, M, Loder (or) D er (or) X B, 9, Boder (or) F (or) 6 der (or) 3 EV EV age	1
<pre>Z1 steht für : 1) X, U, H (stands for) 2) U, H od 3) X, U, H Z2 steht für : 1-3) B ode (stands for) Z3 steht für : 1) 1, 2, 3 (stands for) 2) 0 oder 3) 1, 2 od Nennspannung : 1-2) DC 24 (Rated Voltage) 3) DC 12 Nennstrom : siehe Anlag</pre>	A oder (or) M der (or) M H, M, L oder (or) D er (or) X B, 9, B oder (or) F (or) 6 der (or) 3 W W W age ndix) ung zugrunde und es bestätigt die Konformität üfgrundlagen Zusätzliche Anforderungen erden soll, müssen zusätzlich duktes wird überwacht Regulation and states the conformity ts as indicated above. Any additional be marketed have to be considered	1 1

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