SPECIFICATION FOR APPROVAL
CUSTOMER: Endrich
CUSTOMER PART NO. :
CUSTOMER APPROVEDAPPROVED BY 研發處 2018.06.06 簡文榮CHECKED BY 研發處 2018.06.06 甘順騫PREPARED BY 研發處 2018.06.06 王嘉祥PREPARED BY 研發處 2018.06.06 歐陽語形
MODEL NO. : AG06024HB257103 P.S.
DESCRIPTION: <u>390mm</u> 無裸線
SPEC NO. : SA-0120180601006
ISSUE DATE : 2018.06.06
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 CONFIRMATION OF SAME.
<ul> <li>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</li></ul>
ADDA ADDA CORPORATION
t <u>a</u>

	Revised Record		
Rev.	Revision Description	Change page	Date
A00	Preliminary		2018.06.06
		n př. (A	
		· 研發度 ·	
		<u>2018.06.06</u>	
	t	發行章	

# DATA-SHEET

Engineering

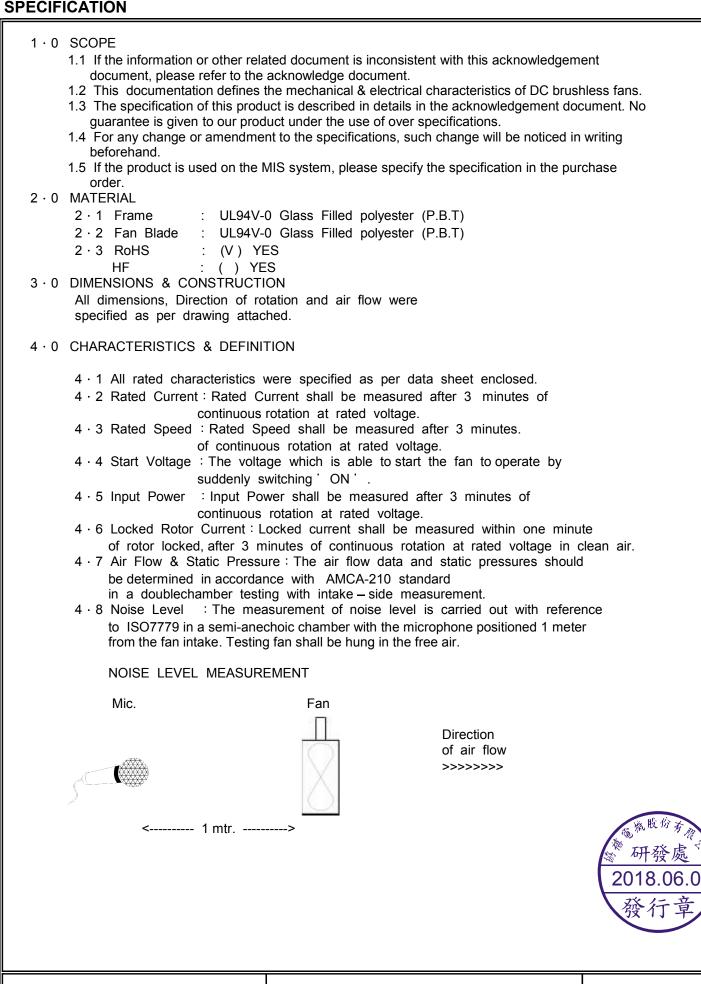
Printed On:

18/06/06

BRUSHLESS AXIAL COOLING FANS

Customer	: Endrich	Ref: (RoHS)
Adda Model No	: AG06024HB257103	
Samples attached	: Piece(s),	
Safety Approval	: UL,CUL,TUV,CE TUV:EN 60950-1:2006+A	A11+A1+A12+A2
	UL:UL507 CE:EN 61000-6-1:2007	
	EN 61000-6-3:2007+A1	
Specifications		
ITEM	SPECIFICATION / CONDITION	
DIMENSIONS	: 60x60x25 mm	
BEARING TYPE	: TWO BALL	
RATED VOLTAGE	: 24.0 VDC	
OPERATING VOLTAGE RANGE	: 21.6 VDC – 26.4 VDC	
START-UP VOLTAGE	: 17.0 VDC , NORMAL	
REAL CURRENT	: 0.10 Amp	
REAL POWER	: 2.40 Watt	
RATED CURRENT	: 0.12 Amp + 10 %MAX	
RATED POWER	: 2.88 Watt	
RATED SPEED	: 5000 RPM ± 10 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 26.178 CFM (min.: 23.560 CFM)	
AIR FLOW	: 0.740 CMM (min.: 0.666 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.298 Inch $H_2O$ (min.: 0.241 Inch $H_2O$ )	
STATIC AIR PRESSURE	: 7.569 mm $H_2O$ (min.: 6.130 mm $H_2O$ )	
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	: 38.4 dB (A) (max.: 42.4 dB(A))	
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	: YES	
CONNECTION LEAD TYPE	: WIRE, AWG# 24	
LIFE EXPECTANCY	: 70000 Hours at 40 $^\circ\!\mathrm{C}$ /65% RH	
NET WEIGHT	: 62 Gram.	
PACKING	: 300 pcs. Per Export Carton.	藏股份方加
Unless otherwise stated, the relative h	umidity is 65%, and the temperature is $25^{\circ}$	研發處引
for the standard testing.		的發展之的
Should you have any doubt, please ref	fer to the environmental conditions specified in the	10.00.00
acknowledgement document.		受行早
ADDA CORPORATION	Model No.: AG06024HB257103	Page 1/5

## SPECIFICATION



ADDA CORPORATION

## 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

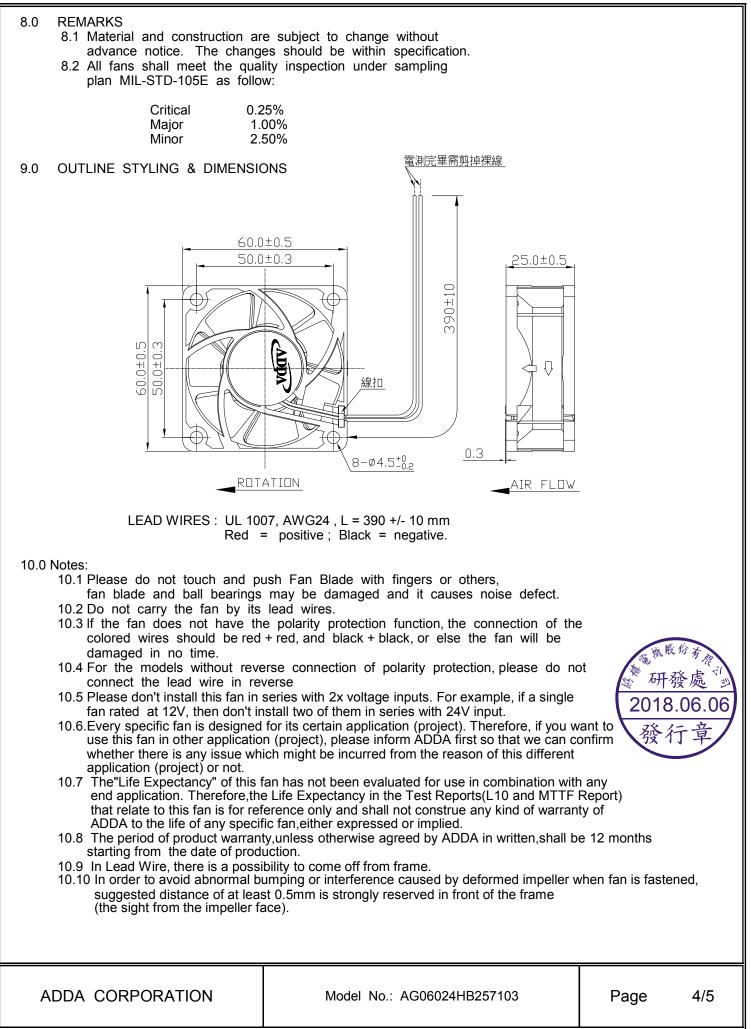
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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

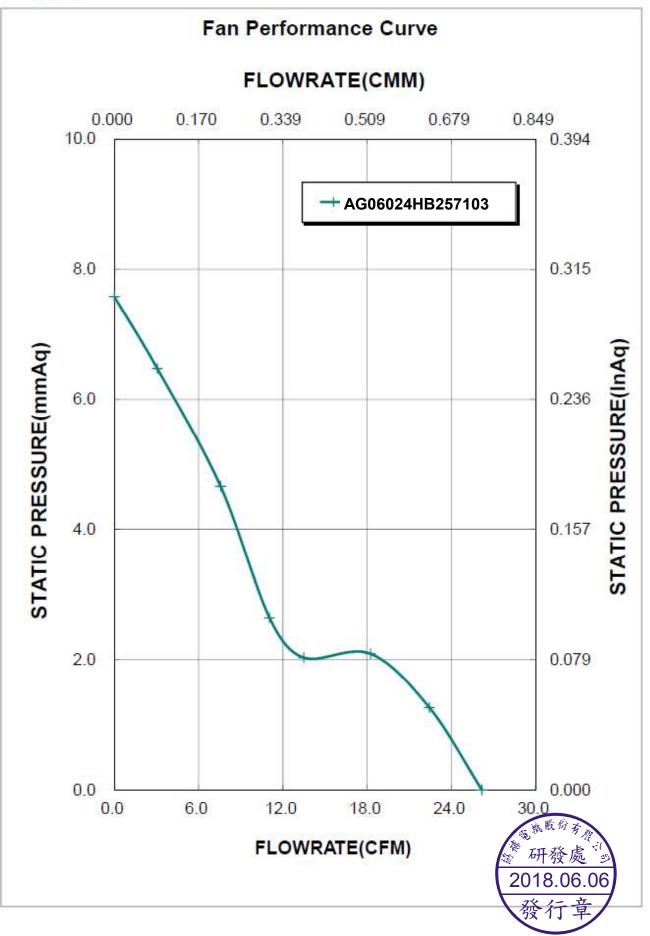


ADDA CORPORATION

## SPECIFICATION







Zertifikat	Certific	ate			E
<b>Čertifikat Nr.</b> <i>Certificate</i> R 50111797		tt Page 05			TÜVRheinland
hr Zeichen <i>Client Refer</i> 12101162/ST2509		Unser Zeichen Our ZTW1-YML- 1		usstellungsdatum 11.10.2017	Date of Issue (day/mo/yr)
Genehmigungsinhaber I Adda Corporatic 5, East Section Pingtung City Faiwan, R.O.C.	on n, Industi	ry 6 Road	ADDA Electr (Kunshan), No. 88, Jia Zhangpu Tow	ngfeng Road n y, Jiangsu P	
rüfzeichen Test Mark		Geprüft nach Test	ed acc. to : 2006+A11+A1+	10.00	
TÜVRheinland ZERTIFIZIERT		HI 00000 1	.2000(A21)A21)		
Zertifiziertes Produkt	(Corätaidanti	fikation)		Lizenz	entgelte - Einheit
Certified Product	(Product Iden				e Fee - Unit
		The second se		License	e ree - onu
Ventilator (DC	T Earl			License	eree - Onu
<u>Ventilator</u> (DC	C Fan)			License	e ree - Onu
				Licensi	e ree - Unit
wie Blatt (as pag	ge) 01			Licensi	e ree - Onu
wie Blatt (as pag Ergänzung (Addit:	ge) 01 ion) : AG06024	4Z1Z2257Z303 (	adda, berflo)	Licensi	1
Zl steht für	ge) 01 ion) : AG06024 n)	J.V/R		Licensi	
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation Z1 steht für (stands for) Z2 steht für	ge) 01 ion) : AG06024 n)	4Z1Z2257Z303 ( H, M, L oder (		Licensi	1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation Z1 steht für (stands for) Z2 steht für (stands for) Z3 steht für	ge) 01 ion) : AG0602 n) : X, U, 1 : B oder	4Z1Z2257Z303 ( H, M, L oder (	or) D	Licensi	1 1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation Z1 steht für (stands for) Z2 steht für (stands for) Z3 steht für (stands for)	ge) 01 ion) : AG06024 n) : X, U, 1 : B oder : 1, 2, :	4Z1Z2257Z303 ( H, M, L oder ( (or) X	or) D	Licensi	1 1 1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation 21 steht für (stands for) 22 steht für (stands for) 23 steht für (stands for) 23 steht für (stands for) Nennspannung (Rated Voltage)	ge) 01 ion) : AG06024 n) : X, U, 1 : B oder : 1, 2, 3 : DC 24V	4Z1Z2257Z303 ( H, M, L oder ( (or) X 3, 9, B oder (	or) D	Licensi	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation 21 steht für (stands for) 22 steht für (stands for) 23 steht für (stands for) 23 steht für (stands for) Nennspannung (Rated Voltage) Nennstrom	ge) 01 ion) : AG06024 n) : X, U, 1 : B oder : 1, 2, 1 : DC 24V : siehe i	4Z1Z2257Z303 ( H, M, L oder ( (or) X 3, 9, B oder ( Anlage	or) D	Licensi	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation 21 steht für (stands for) 22 steht für (stands for) 23 steht für (stands for) 23 steht für (stands for) Nennspannung (Rated Voltage)	ge) 01 ion) : AG06024 n) : X, U, 1 : B oder : 1, 2, 1 : DC 24V : siehe i	4Z1Z2257Z303 ( H, M, L oder ( (or) X 3, 9, B oder (	or) D	Licensi	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation 21 steht für (stands for) 22 steht für (stands for) 23 steht für (stands for) Nennspannung (Rated Voltage) Nennstrom (Rated Current)	ge) 01 ion) : AG06024 n) : X, U, 1 : B oder : 1, 2, 1 : DC 24V : siehe J (see a)	4Z1Z2257Z303 ( H, M, L oder ( (or) X 3, 9, B oder ( Anlage ppendix)	or) D	Licensi	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
wie Blatt (as pag Ergänzung (Addit: Bezeichnung (Type Designation 21 steht für (stands for) 22 steht für (stands for) 23 steht für (stands for) 23 steht für (stands for) Nennspannung (Rated Voltage) Nennstrom	ge) 01 ion) : AG06024 n) : X, U, 1 : B oder : 1, 2, 1 : DC 24V : siehe i (see a) dix): 1.87 - and Zertifizierungs annten Standards um kin Verkehr gebrac ung des zertifizierten Testing and Certifizierten testing gedar zertifizierten testing gedar zertifizierten testing gedar zertifizierten	4Z1Z2257Z303 ( H, M, L oder ( (or) X 3, 9, B oder ( Anlage ppendix) ordnung zegrunde und cs hi werden soll, missen zu Produktes wird überwac tion Regulation and state ments as indicated above so be marketed have to (	or) D or) P bestätigt die Konformität ziche Anforderungen sätzlich ht. s the conformity . Any additional be considered	Zertifizierungs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1