Specification for approval CUSTOMER : CUSTOMER PART NO. : CUSTOMER APPROVED BY Model No. : ASS08024HB389300 Description :
CUSTOMER PART NO.: CUSTOMER APPROVED APPROVED BY 研發處 2017.03.22 預文第 CHECKED BY 研發處 2017.03.22 速報 如明意 PREPARED BY 研發處 2017.03.22 速明動 DT.03.22 速源の DT.03.22 正 DT.03.22 正 DT.03.22 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03.23 DT.03
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DESCRIPTION :
SPEC NO.: SA-0120170321004
ISSUE DATE : 2017.03.22
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.
☆ 研發處 2017.03.22 び 45 5 ひ 45 5
ADDA ADDA CORPORATION

	Revised Record		
Rev.	Revision Description	Change page	Date
A00	Preliminary		2017.03.22
	爆機股份有會		
	· 研發處 · 」		
	2017.03.22		
	發行章		

DATA-SHEET

Engineering

Printed On: 17/03/22

BRUSHLESS AXIAL COOLING FANS

Customer	:		Ref: (RoHS)
Adda Model No	: AS08024HB389300		
Samples attached	: Piece(s),		
Safety Approval	: UL,CUL,TUV,CE	TUV:EN 60950-1:200 UL:UL507	06+A11+A1+A12+A2
		CE:EN 61000-6-1:20 EN 61000-6-3:2007+	
Specifications			
ITEM	SPECIFICATION / CONDI	ITION	
DIMENSIONS	: 80x80x38 mm		
BEARING TYPE	: TWO BALL		
RATED VOLTAGE	: 24 VDC		
OPERATING VOLTAGE RANGE	: 21.6 VDC -	– 26.4 VDC	
START-UP VOLTAGE	:17 VDC ,	NORMAL	
REAL CURRENT	: 1.12 Amp		
REAL POWER	: 26.88 Watt		
RATED CURRENT		+ 10 %MAX	
RATED POWER	: 36.00 Watt		
RATED SPEED	: 9000 RPM	± 10 %	
	(IN FREE A	AIR AT RATED VOLTAGE)	
AIR FLOW	: 117.085 CFM ((min.: 105.376 CFM)	
AIR FLOW	: 3.313 CMM ((min.: 2.981 CMM)	
	·	AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 2.014 Inch H ₂ O	(min.: 1.631 Inch H ₂ C	D)
STATIC AIR PRESSURE	: 51.155 mm H ₂ O	(min.: 41.435 mm H ₂ C))
	(IN FREE A	AIR AT RATED VOLTAGE)	
NOISE LEVEL	: 64.3 dB (A) (r		
MOTOR PROTECTION	: BY IC		
POLARITY PROTECTION	: YES		
CONNECTION LEAD TYPE	: WIRE, AWG# 2	4	
LIFE EXPECTANCY	: 70000 Hours a	at 40°C / 65%	
NET WEIGHT	: 212 Gram.		
PACKING	: 96 pcs. Per	Export Carton.	
			機股份有會
Unless otherwise stated, the relative h	midity is 65%, and the temper	rature is 25°	研發處
for the standard testing.		~	17.03.22
Should you have any doubt, please ref	r to the environmental condition		11.00.22
acknowledgement document.		A Starter of the star	资行草 /
ADDA CORPORATION	Model No.: AS08024F	10280200	Page 1/6
ADDA CONFORATION	Model No.: AS08024H		Page 1/6

SPECIFICATION



- 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 ISO7779 in a semi-anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

NOISE LEVEL MEASUREMENT

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



Mic.

Fan

Direction of air flow



ADDA CORPORATION

Model No.: AS08024HB389300

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

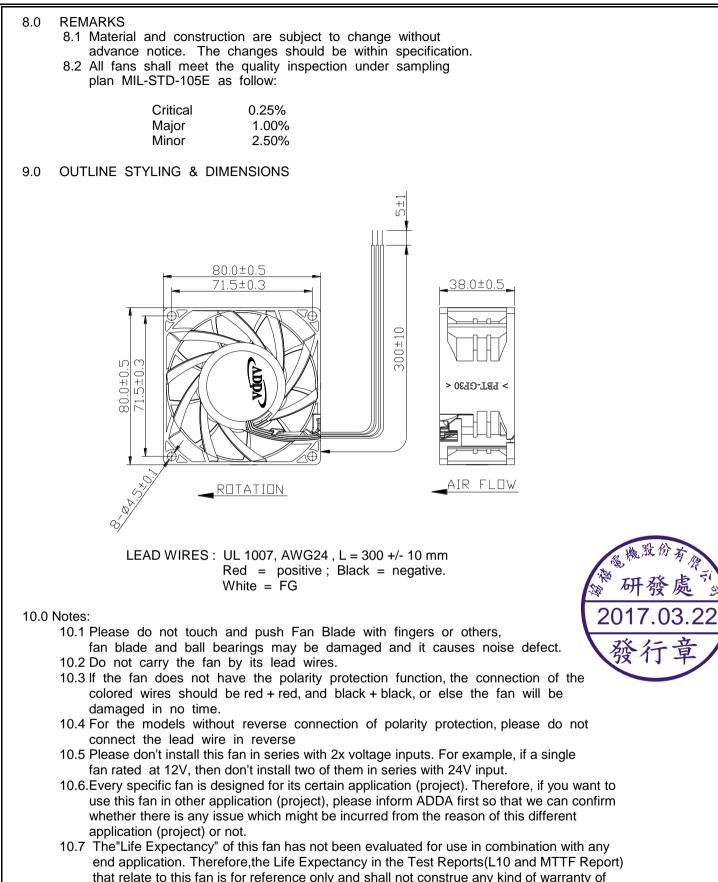
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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.



ADDA CORPORATION

SPECIFICATION



- ADDA to the life of any specific fan, either expressed or implied. 10.8 The period of product warranty, unless otherwise agreed by ADDA in written, shall be 12 months
- 10.8 The period of product warranty, unless otherwise agreed by ADDA in written, shall be 12 months starting from the date of production.
- 10.9 In Lead Wire, there is a possibility to come off from frame.

ADDA CORPORATION

Model No.: AS08024HB389300



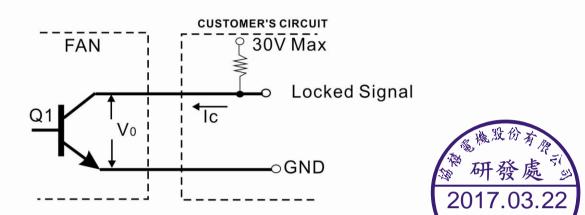


Output of locked signal

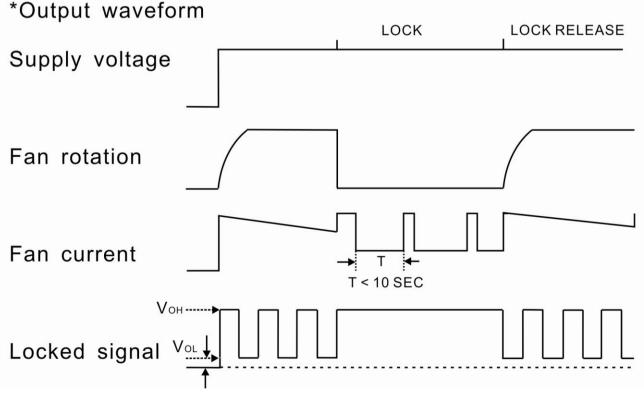
*Output type.....Open collector type

*Electrical design suggestion:

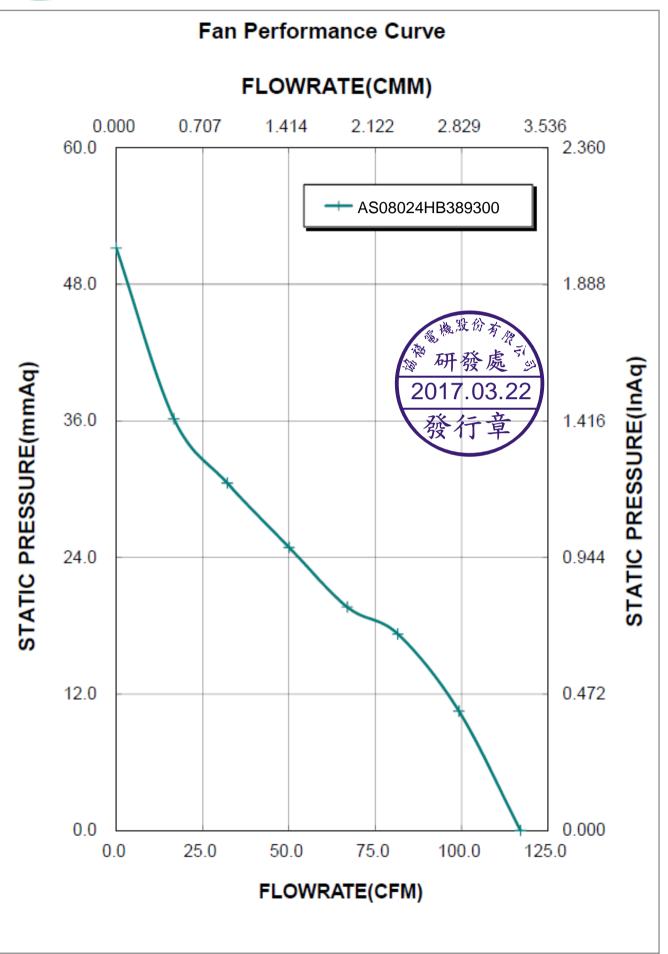
(External signal function design is decided by customer)



*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







Zertifikat	Certificate			A
Zertifikat Nr. Certificate No. R 50111797	Blatt Page 0034			TÜVRheinland
Ihr Zeichen Client Reference 8293900982/RL251010		•	sstellungsdatum	Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Adda Corporation 6, East Section, Ind Pingtung City 900 Taiwan, R.O.C.		Fertigungsstätte Ma Adda Corpora 6, East Sect Pingtung Cit Taiwan, R.O.	tion ion, Indust y 900	
Priifzeichen Test Mark		Tested acc. to -1:2006+A11		
Zertifiziertes Produkt (Geräte Certified Product (Produc	identifikation) t Identification)			zentgelte - Einheit ze Fee - Unit
<u>Ventilator</u> (DC Fan) wie Blatt (as page) 01 Ergänzung (Addition)		() () () () () () () () () () () () () (^{股份有食} 计發處 ^了 7.03.22	
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ANLAGE (Appendix):	1.25		_	5
Dem Zertifikat liegt unsere Prüf- und Zer des Produktes mit den oben genannten S in Ländern, in denen das Produkt in Ver betrachtet werden. Die Herstellung des z This certificate is based on our Testing d of the product with the standards and te. requirements in countries where the prod additionally. The manufacturing of the ce	tandards und Prüfgrundlag rkehr gebracht werden soll ertifizierten Produktes wird and Certification Regulation sting requirements as indic luct is going to be market	yen. Zusätzliche Anforderungen I, müssen zusätzlich I überwacht. n and states the conformity cated above. Any additional ed have to be considered	är Zertifizierungs	
TÜV Rheinland LGA Products Tel.: (+49/221)8 06 - 13 71 e-maii: 0 Fax: (+49/221)8 06 - 39 35 http://www.sec.edu/wwww.sec.edu/www.sec.edu/www.sec.edu/www.sec.edu/wwww.sec.edu/wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	cert-validity@de.tuv.com	2 - 90431 Nürnberg	DiplIng. A.	Klinker

Zertifikat Cert	ificate			A
Zertifikat Nr. Certificate No. R 50111797	Blatt Page 0098			TÜVRheinland
Ihr Zeichen <i>Client Reference</i> 12086425/ST	Unser Zeichen Ou ZTW1-YML- 1	ur Reference L1011138 090	Ausstellungsdatum 14.04.2016	Date of Issue (day/mo/yr)
Genchmigungsinhaber License H Adda Corporation 6, East Section, Ind Pingtung City 900 Taiwan, R.O.C.		ADDA Elec (Kunshan) No. 88, Zhangpu 7	City, Jiangsu H	7 Technology
TÜVRheinland ZERTIFIZIERT	Geprüft nach Tes EN 60950-1	<i>ted acc. to</i> 1 : 2006+A11+ <i>F</i>	A1+A12+A2	
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Änderung (Change)			×× 2	017.03.22
	ehe oben ee above)			發行章
ANLAGE (Appendix):				and LGA Pro
Dem Zertifikat liegt unsere Prüf- und Zertifiz es Produktes mit den oben genannten Stand a Ländern, in denen das Produkt in Verkehr etrachtet werden. Die Herstellung des zertif his certificate is based on our Testing and C f the product with the standards and testing equirements in countries where the product dditionally. The manufacturing of the certifi	ards und Prüfgrundlagen. Zusät gebracht werden soll, müssen zi zierten Produktes wird überwac 'ertification Regulation and statt requirements as indicated abov is going to be marketed have to	tzliche Anforderungen usätzlich cht. es the conformity e. Any additional be considered	ar Zertifizierungs	stelle
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