SPECIFICATION FOR APPROVAL

CUSTOMER : _____

CUSTOMER PART NO. : _____

CUSTOMER APPROVED	APPROVED BY	CHECKED BY		PREPARED BY
	研發處 2016.09.22 簡文榮	研發處 2016.09.22 林志曉	研發處 2016.09.22 錢志昀	研發處 2016.09.22 歐陽語彤

MODEL NO. : AG06024HB257102

DESCRIPTION : _____

SPEC NO. : SA-0120160824035

ISSUE DATE : 2016.09.22

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.

台灣電機股份有限公司 研發處 2016.09.22 發行章

ISO 14001:2004 SGS UKAS ENVIRONMENTAL MANAGEMENT 005

UL REGISTERED FIRM

ADDA CORP.
REGISTERED TO ISO 9001
ISO/TS 16949
CERTIFICATE NO.A8035

ADDA CORPORATION

Revised Record

Rev.	Revision Description	Change page	Date
A00	Preliminary	—	2016.09.22

協禧電機股份有限公司
研發處
2016.09.22
發行章

D A T A - S H E E T

Engineering

Printed On: 16/09/22

BRUSHLESS AXIAL COOLING FANS

Customer	:		Ref: (RoHS)
Adda Model No	:	AG06024HB257102	
Samples attached	:	Piece(s),	
Safety Approval	:	CE	CE:EN 61000-6-1:2007 EN 61000-6-3:2007+A1

Specifications

ITEM		SPECIFICATION / CONDITION				
DIMENSIONS	:	60x60x25	mm			
BEARING TYPE	:	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#	26			
LIFE EXPECTANCY	:	70000	Hours	at	40℃	/ 65% RH
NET WEIGHT	:	62	Gram.			
PACKING	:	300	pcs. Per Export Carton.			

Unless otherwise stated, the relative humidity is 65%, and the temperature is 25℃ for the standard testing.

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

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 Bearing Sys. : ( ) Sleeve, oil impregnated.
(V) Two Ball Bearing
( ) One Ball one Sleeve
( ) Hypro Bearing
( ) FDB Bearing

2・4 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・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・4 Start Voltage ：The voltage which is able to start the fan to operate by suddenly switching ’ ON ’ .

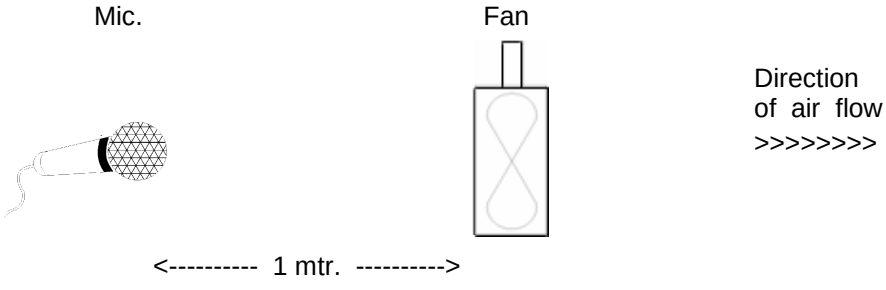
4・5 Input Power ：Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.

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 fan intake. Testing fan shall be hung in the free air.

NOISE LEVEL MEASUREMENT



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℃ to +70℃ at humidity 65%+/-20% RH.

7.3 Storage Temperature
All function shall be normal after 500 hours storage at -40℃ to +70 ℃ with a 24 hour recovery period at room temperature.

7.4 Humidity
After 96 hours, 95% RH, 40+/-2℃ 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.

SPECIFICATION

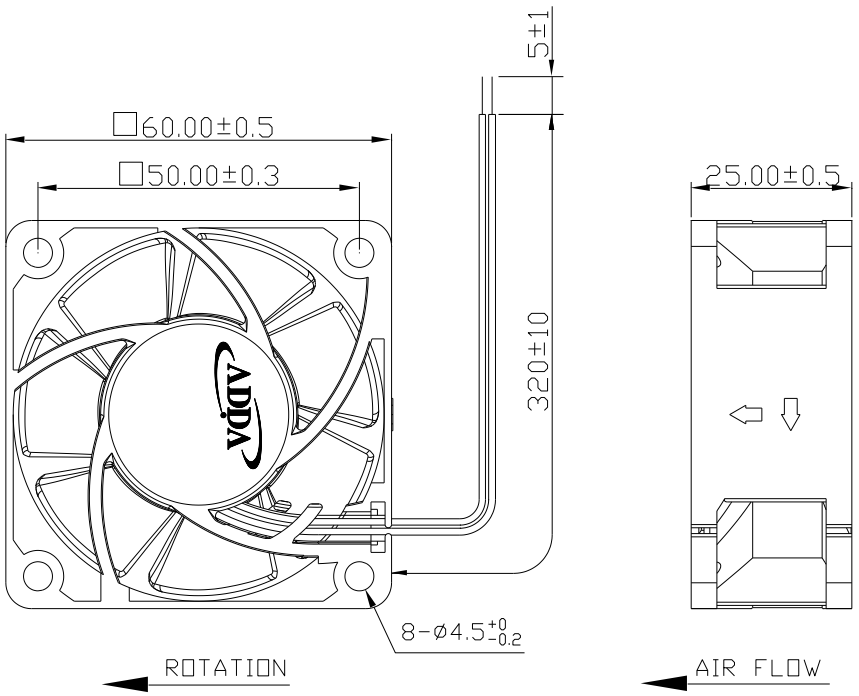
8.0 REMARKS

8.1 Material and construction are subject to change without advance notice. The changes should be within specification.

8.2 All fans shall meet the quality inspection under sampling plan MIL-STD-105E as follow:

Critical	0.25%
Major	1.00%
Minor	2.50%

9.0 OUTLINE STYLING & DIMENSIONS



LEAD WIRES : UL 1061, AWG26 , L = 320 +/- 10 mm
Red = positive ; Black = negative.

10.0 Notes:

10.1 Please do not touch and push Fan Blade with fingers or others, fan blade and ball bearings may be damaged and it causes noise defect.

10.2 Do not carry the fan by its lead wires.

10.3 If the fan does not have the polarity protection function, the connection of the colored wires should be red + red, and black + black, or else the fan will be damaged in no time.

10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse

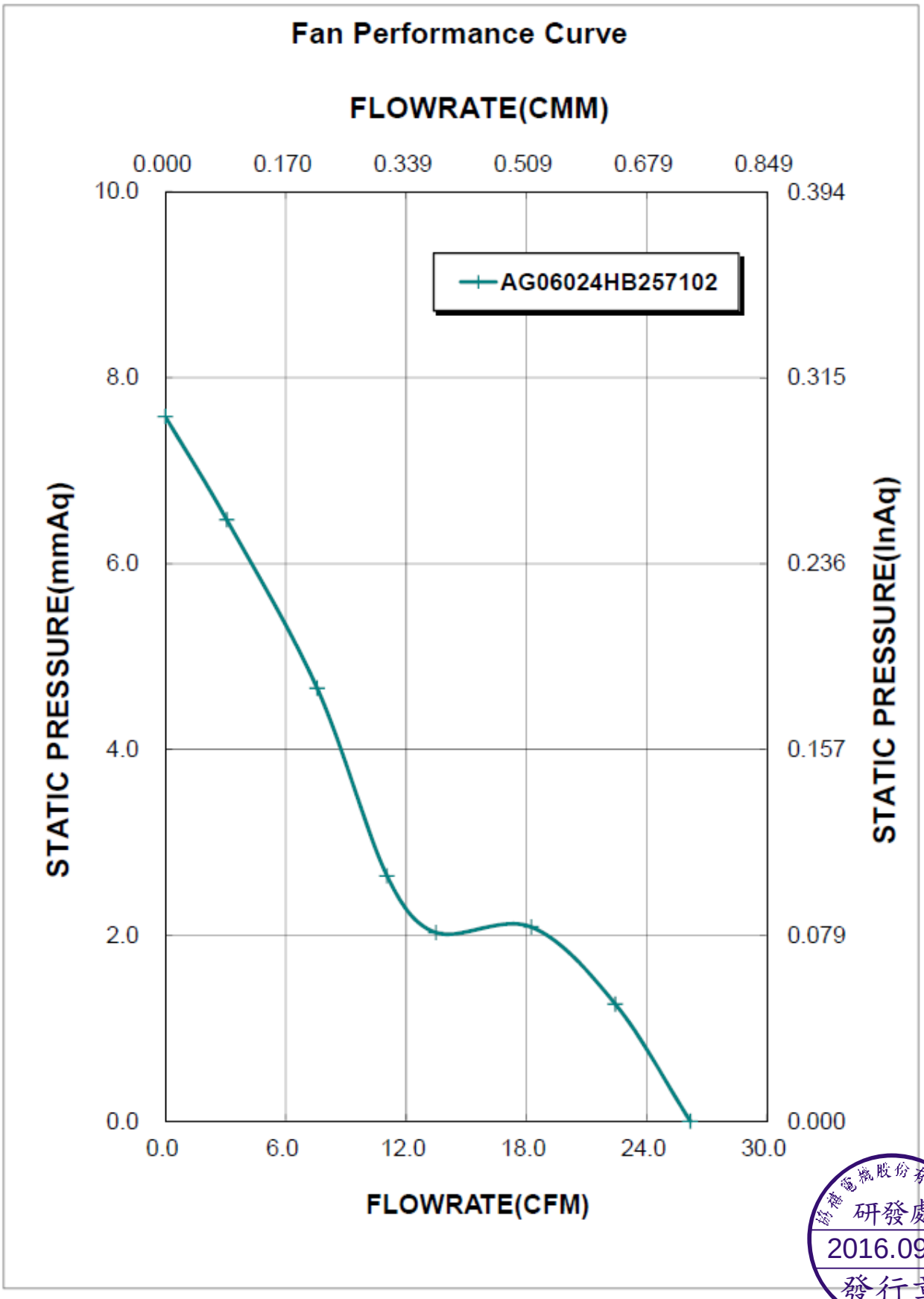
10.5 Please don't install this fan in series with 2x voltage inputs. For example, if a single fan rated at 12V, then don't install two of them in series with 24V input.

10.6. Every specific fan is designed for its certain application (project). Therefore, if you want to use this fan in other application (project), please inform ADDA first so that we can confirm whether there is any issue which might be incurred from the reason of this different application (project) or not.

10.7 The"Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore,the Life Expectancy in the Test Reports(L10 and MTTF Report) that relate to this fan is for reference only and shall not construe any kind of warranty of 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 staring from the date of production.

10.9 In Lead Wire, there is a possibility to come off from frame.



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