SPECIFICATION FOR APPROVAL
TO : REF. No
CUSTOMER APPROVED APPROVED DATE
MODEL No. <u>AD0712HB-A7BGL</u> P.S. (NS) DESCRIPTION: <u>DC FAN (RoHS)</u> REV. <u>A</u> ID No. <u>JST:XHP-4P 300mm</u>
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. の子母を成う 2015.10.26 發行章
ADDA ADDA CORPORATION

DATA-SHEET

Engineering

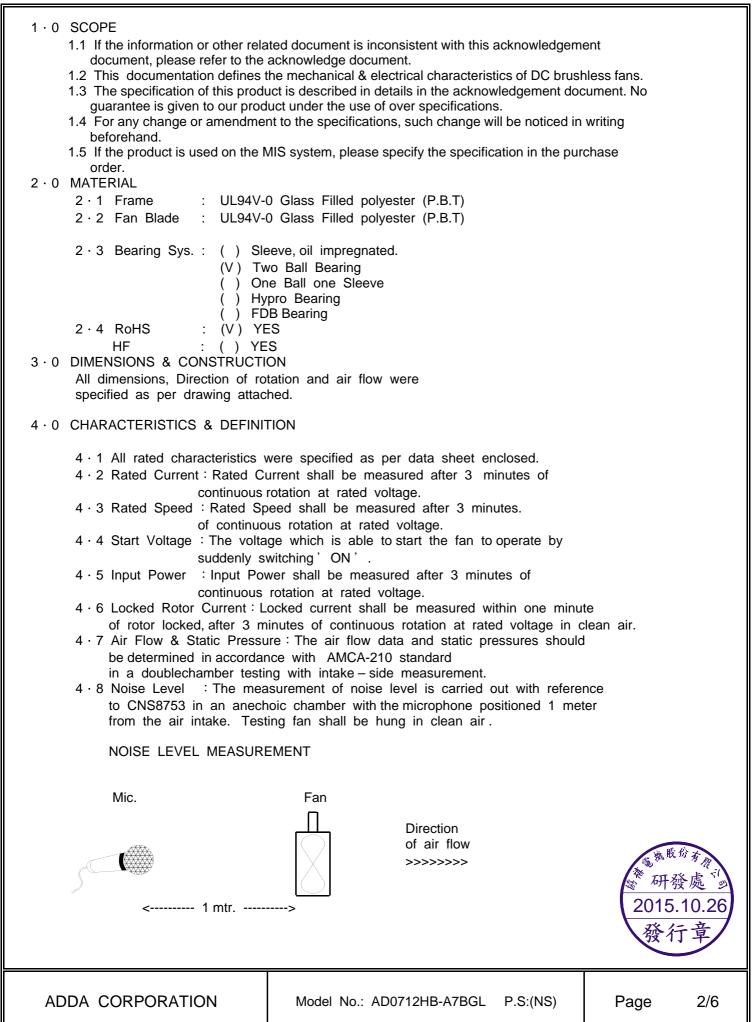
BRUSHLESS AXIAL COOLING FANS

Printed On:

15/10/26

Customer								Ref: (RoHS)
Adda Model No	:	AD0712HB-	A7BGL		P.S:	(NS)		. ,
Samples attached	:		Piece(s	s),		. ,		
Safety Approval	:	UL,CUL,TU	V,CE				60950-1:2006+	A11+A1+A12
							07 51000-6-1:2007	
							00-6-3:2007+A1	
Specifications								
ITEM SI	PE		/ CON	DITION				
DIMENSIONS	:	70x70x25	mm					
BEARING TYPE	:	BALL						
RATED VOLTAGE	:	12	VDC					
OPERATING VOLTAGE RANGE	:	11.4	VDC	_	12.6	VDC		
OPERATING DUTY CYCLE RANGE	:	30% ~ 100%	6					
START-UP DUTY CYCLE	:	30% Max	(AT RA	TED VO	LTAGE)			
REAL CURRENT	:	0.17	Amp					
REAL POWER	:	2.04	Watt					
RATED CURRENT	:	0.25	Amp	+	10	%MAX	(Duty cycle 10	0%)
RATED POWER	:	3.00	Watt				(Duty cycle 10	0%)
RATED SPEED	:	4200	RPM	±	10	%	(Duty cycle 10	0%)
	:	0	RPM				(Duty cycle 0%	ó)
		(1	N FREE	AIR A	T RATED	VOLTA	GE)	
AIR FLOW	:	35.500	CFM	(min.:	31.950	CFM)		
AIR FLOW	:	1.004	CMM	(min.:	0.903	CMM)		
		(N FREE	AIR A	T RATED	VOLTA	GE)	
STATIC AIR PRESSURE	:	0.213	Inch H ₂	C	(min.:	0.172	Inch H ₂ O)	
STATIC AIR PRESSURE	:	5.410	mm H ₂ C)	(min.:	4.382	mm H ₂ O)	
		(1	N FREE	AIR A	T RATED	VOLTA	GE)	
NOISE LEVEL	:	38.0	dB (A)	(max.:	42.0	dB(A))		
MOTOR PROTECTION	:	BY	IC					
POLARITY PROTECTION	:	YES						
CONNECTION LEAD TYPE	:	WIRE, AW	G#	26				
LIFE EXPECTANCY	:	70000	Hours	at	40 °C	/ 65%	RH	
NET WEIGHT	:	61	Gram.					
PACKING	:	200	pcs. Pe	er Expor	t Carton.			
* If no PWM signal is present (no connection to the PWM drive signal),								
the fan should be run at rated speed RPM.								
* The fan should be run,at Max of start -up duty cycle.								
Unless otherwise stated, the relative humidity is 65%, and the temperature is 25°C								
for the standard testing.								
Should you have any doubt, please refer to the environmental conditions specified in the 發行章								
acknowledgement document.								
ADDA CORPORATION	Ν	lodel No.:	AD0712	2HB-A7B	GL	P.S:	(NS)	Page 1/6

SPECIFICATION



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 $^\circ\!{\rm C}$ to +70 $^\circ\!{\rm C}$ 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

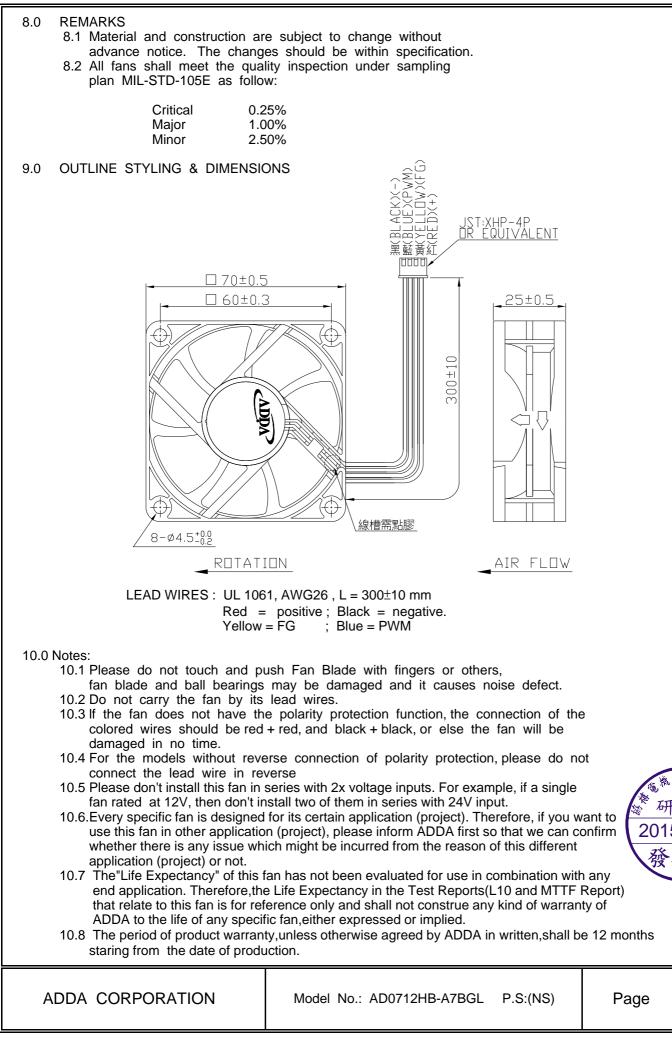
After 96 hours, 95% RH, 40+/-2 $^{\circ}$ C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

7.5 Do not place or store the fan in the environment with high/low temperature/humidity. Do not store the fan for over 6 months; even if the fan is stored in room temperature for over 6 months, the fan may have the electric current leakage.



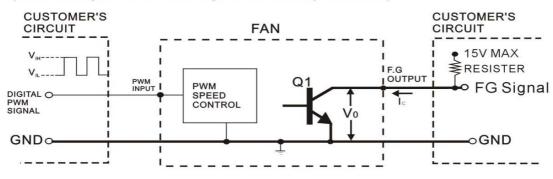
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SPECIFICATION



4/6

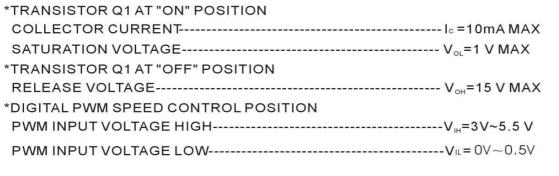
PROVISION OF DIGITAL PWM SPEED CONTROL & LOCKED SIGNAL(F.G) OUTPUT OF LOCKED SIGNAL ------OPEN COLLECTOR TYPE



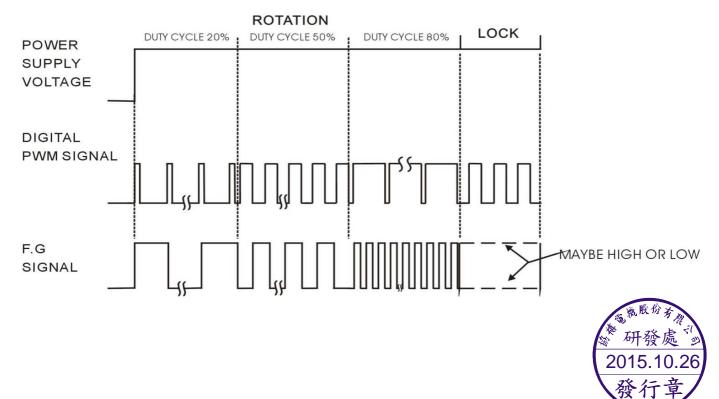
(External signal function design is decided by customer)

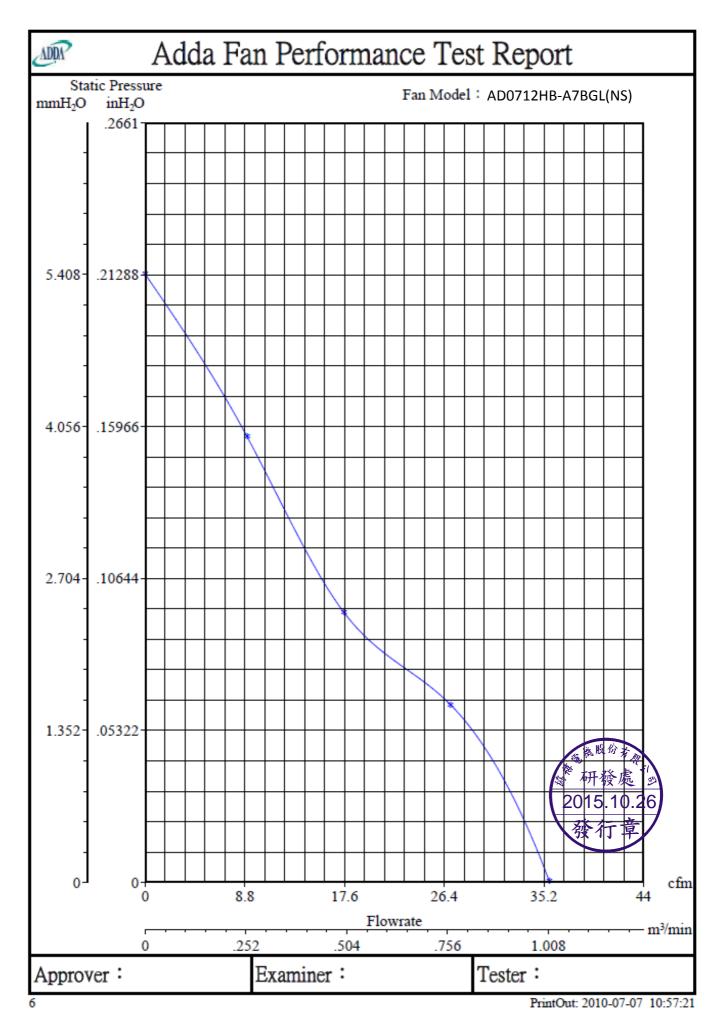
PWM-BB

ADD









Zertifikat	Certificate		A
Zertifikat Nr. Certificate No. R 50156693	Blatt Page 0031		TÜVRheinland
Ihr Zeichen Client Reference 8293900916/RL160810	Unser Zeichen Our Rej ZTW1-SSY- 1101		Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Adda Corporation 5, East Section, Ind Pingtung City 900 Faiwan, R.O.C.	A Austry 6 Road 6 P	ertigungsstätte Manufacturing Pla dda Corporation , East Section, Indus ingtung City 900 aiwan, R.O.C.	
Prüfzeichen Test Mark	Geprüft nach Tested a EN 60950-1:20		
MAN A COT BAUART GEPROFT TUVRherstand TOVRherstand TOVRherstand TOVRHerstand TOVRHerstand TOVRHerstand TOVRHerstand			
Zertifiziertes Produkt (Geräter Certified Product (Product	identifikation) t Identification)		zentgelte - Einheit se Fee - Unit
Ventilator (DC Fan)			
ada plant (a.e.) at			
wie Blatt (as page) 01 Ergānzung (Addition)			
Ergānzung (Addition) Bezeichnung : AD (Type Designation) AD AD	17248Z1B515Z2M0 0712Z1Z3-A7BGL 1212HX-PF3 0224WF F7DD5		1 1 1
Ergānzung (Addition) Bezeichnung : AD (Type Designation) AD AD Z1 steht für : D, (stands for)	0712Z1Z3-A7BGL 1212HX-PF3 0824VB-F7BDS L, M, H oder (or) U		1 1 1 1
Ergānzung (Addition) Bezeichnung : AD (Type Designation) AD AD Z1 steht fūr : D, (stands for) Z2 steht fūr : 1, (stands for)	0712Z1Z3-A7BGL 1212HX-PF3 0824VB-F7BDS		1 1 1
Ergānzung (Addition) Bezeichnung : AD (Type Designation) AD AD Z1 steht fūr : D, (stands for) Z2 steht fūr : 1, (stands for) Z3 steht fūr : B, (stands for) Nennspannung : sic (Rated Voltage) (se	0712Z1Z3-A7BGL 1212HX-PF3 0824VB-F7BDS L, M, H oder (or) U 2, 3, 9 oder (or) B	AND TUVRImeinlami	1 1 1 1
Ergānzung (Addition) Bezeichnung : AD (Type Designation) AD AD Z1 steht fūr : D, (stands for) Z2 steht fūr : 1, (stands for) Z3 steht fūr : B, (stands for) Nennspannung : sic (Rated Voltage) (se	0712Z1Z3-A7BGL 1212HX-PF3 0824VB-F7BDS L, M, H oder (or) U 2, 3, 9 oder (or) B S oder (or) X ehe Anlage ee appendix) ehe Anlage ee appendix)	AL HI - OrtHiziarungsong	1 1 1 1
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TDD39-04.08 👻 TBV: TSEY and TBV are registered instanaets. Utiliarios and apalitation (maints prior apartma).

Zertifikat	Certificate			A
Zertifikat Nr. <i>Certificate No.</i> R 50156693	Blatt Page 0069			TÜVRheinland
Ihr Zeichen Client Reference 12060494/ST160712	Unser Zeichen Or ZTW1-YML- 1	ur Reference 1016931 059	Ausstellungsdatum 06.08.2012	Date of Issue (day/mo/yr)
Genehmigungsinhaber License I Adda Corporation 6, East Section, Inc Pingtung City 900 Taiwan, R.O.C.		Adda Corpo	ection, Indust City 900	
Prüfzeichen Test Mark	Geprüft nach Tes EN 60950-1	<i>ted acc. to</i> :2006+A11+A1	+A12	
Zertifiziertes Produkt (Geräte	identifikation) t Identification)			entgelte - Einheit e Fee - Unit
Ventilator (DC Fan)				
wie Blatt (as page) 01				
Änderung (Change)				
Prüfgrundlage : si (Test Requirement) (s	ehe oben ee above)			
				^{● 研發處 →} 2015.10.26
ANLAGE (Appendix): 1		t as bandlates the Wester		發行章
Dem Zertifikat liegt unsere Prilf- und Zen les Produktes mit den oben genannten Su n Ländern, in denen das Produkt in Veri tetrachtet werden. Die Herstellung des ze his certificate is based on our Testing au of the product with the standards and tess equirements in countries where the produ dditionally. The manufacturing of the cer	ndards und Prüfgrundlagen. Z kehr gebracht werden soll, mits rtifizierten Produktes wird über ud Certification Regulation and ling requirements as indicated o ct is going to be marketed hav	utătzliche Anforderungen ten zusătzlich vacht. states the conformity thore, Any additional e to be considered		telle
ÜV Rheinland LGA Products vel.: (+49/221)8 06 - 13 71 e-mail: ca vax: (+49/221)8 06 - 39 35 http://www	art-validity@de.tuv.com	90431 Nürnberg	Jerry F. R. Ya	ng III
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