SPECIFICATION FOR APPROVAL						
TO :						
REF. No						
CUSTOMER APPROVEDAPPROVED DATE 研發處 (2019.09.12)CHECKED DATE 研發處 (2019.09.12)PREPARED DATE 研發處 (2019.09.12)DATE 研發處 (2019.09.12)研發處 (2019.09.12)PREPARED DATE (如發處) (2019.09.12)DATE 研發處 (2019.09.12)研發處 (2019.09.12)PREPARED (DATE)DATE (1019.09.12)研發處 (2019.09.12)PREPARED (2019.09.12)DATE (1019.09.12)印發處 (2019.09.12)PREPARED (2019.09.12)DATE (1019.09.12)印發處 (1019.09.12)PREPARED (1019.09.12)DATE (1019.09.12)印發處 (1019.09.12)PREPARED (1019.09.12)						
MODEL No. AD5012UB-D76 P.S. (T1) DESCRIPTION: DC FAN (RoHS) REV. C ID No.						
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.						
 新戦分支援 和發處ご少 2019.09.12 發行章 						
ADDA CORPORATION						

DATA-SHEET

Engineering

BRUSHLESS AXIAL COOLING FANS

19/09/12

	:							Ref: (RoHS)
Adda Model No	:	AD5012UB	-D76		P.S:	(T1)		
Samples attached	:	10001200	Piece(s).		()		
Safety Approval	:	UL.CUL.TU	IV.CE	-),		TUV:EN	60950-1:2006+A	11+A1+A12+A2
			.,			UL:UL50 CE:EN 6 EN 6100)7 1000-6-1:2007)0-6-3:2007+A1	
Specifications								
ITEM SF	PE(CIFICATION	/ CO	NDITION	<u>l</u>			
DIMENSIONS	:	50x50x15	mm					
BEARING TYPE	:	TWO BALL	-					
RATED VOLTAGE	:	12.0	VDC					
OPERATING VOLTAGE RANGE	:	10.8	VDC	—	13.2	VDC		
START-UP VOLTAGE	:	9.0	VDC	, NOR	MAL			
REAL CURRENT	:	0.18	Amp					
REAL POWER	:	2.16	Watt					
RATED CURRENT	:	0.20	Amp	+	10	%MAX		
RATED POWER	:	2.40	Watt					
RATED SPEED	:	5500	RPM	±	10	%		
		(IN FRE	e air a	AT RATED	VOLTA	AGE)	
AIR FLOW	:	14.050	CFM	(min.:	12.645	CFM)		
AIR FLOW	:	0.397	CMM	(min.:	0.357	CMM)		
		(IN FRE	e air a	AT RATED	VOLTA	AGE)	
STATIC AIR PRESSURE	:	0.166	Inch H ₂	0	(min.:	0.134	Inch H ₂ O)	
STATIC AIR PRESSURE	:	4.216	mm H ₂	0	(min.:	3.414	mm H ₂ O)	
		(IN FRE	e air a	T RATED	VOLTA	AGE)	
NOISE LEVEL	:	36.7	dB (A)	(max.:	40.7	dB(A))		
MOTOR PROTECTION	:	BY	IC					
POLARITY PROTECTION	:	NO						
CONNECTION LEAD TYPE	:	WIRE, AW	'G#	26				
LIFE EXPECTANCY	:	70000	Hours	at	40 °C	/ 65%	RH	
NET WEIGHT	:	27	Gram.					
PACKING	:	480	pcs. P	er Expoi	rt Carton.		新 構	收份有加
Unless otherwise stated, the relative humidity is 65%, and the temperature is 25℃								
for the standard testing. 2019.09.12								
Should you have any doubt, please refer to the environmental conditions specified in the								
acknowledgement document.							77	
ADDA CORPORATION	Ν	lodel No.:	AD501	2UB-D76	6	P.S:	(T1)	Page 1/6

SPECIFICATION



ADDA CORPORATION

Model No.: AD5012UB-D76 P.S:(T1)

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.



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_c=5mA Max Saturation Voltage.....V_{OL}=1.0V Max *Transistor Q1 at "OFF" position Release Voltage.....V_{OH}=15V Max



*Output waveform







Zertifikat	Certificate	$\boldsymbol{\vartriangle}$
Zertifikat Nr. <i>Certificate No.</i> R 50068602	Blatt Page	ΤÜν
Ihr Zeichen Client Reference 12031916	Unser Zeichen Our Reference ZTW2-MRC- 11005418 015	AusstellungsdatumDate of Issue (day/mo/yr)09.05.2006
Genehmigungsinhaber License L Adda Corporation 6, East Section, Inc Pingtung City 900 Taiwan, R.O.C.	Holder Fertigungsstätte Adda Corpo 6, East Se Pingtung C Taiwan, R.	<i>Manufacturing Plant</i> ration ction, Industry 6 Road ity 900 0.C.
Priifzeichen Test Mark	Geprüft nach Tested acc. to EN 60950-1:2001+A11	
Zertifiziertes Produkt (Gerät Certified Product (Produ Ventilator (DC Fan) Wie Blatt (As Page) 01	eidentifikation) ct Identification)	Lizenzentgelte - Einheit License Fee - Unit
Ergänzung (Addition) Bezeichnung (Type Designation) Z1 steht für (stands f Z2 steht für (stands f Z3 steht für (stands f Z4 steht für (stands f Z5 steht für (stands f Z6 steht für (stands f Z7 steht für (stands f Z8 steht für (stands f Z8 steht für (stands f Z8 steht für (stands f Z8 steht für (stands f	 ADZ1Z2Z3Z4-Z5Z6Z7Z8 Dr): 20, 02, 03, 35, 04, 45, 05, 06, 07, 08, 09, 12 oder (or) Dr): 05, 12, 24 oder (or) 48 Dr): U, H, M, L oder (or) D Dr): B, S oder (or) X Dr): A, C, D, F, J, K, Q, R, Y od (or) G Dr): 5, 7, 9, A, B oder (or) C Dr): 0, 1, 2, 3, 4, 6, 8, A oder (or) B Dr): freibleibend (blank) oder (d GL 1 	50, 75 der or)
TÜV Rheinland Product Safet Tel.:(+49/221)8 06 - 13 71 Fax:(+4)	y GmbH, Am Grauen Stein, D-51105 Köln W221)8 06 - 39 35 e-mail: Althofff@de.tuv.com	DiplIng. B. Scheirer
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Zertifikat Certificate	A
Zertifikat Nr. Certificate No. Blatt Page R 50068602 0117	TÜVRheinland
Ihr Zeichen Client ReferenceUnser Zeichen Our Reference12086425/STZTW1-YML-11005418	AusstellungsdatumDate of Issue (day/mo/yr)09913.04.2016
Genehmigungsinhaber License HolderFertigungAdda CorporationADDA E6, East Section, Industry 6 Road(KunshPingtung City 900No. 88Taiwan, R.O.C.ZhangpKunshaP.R. C	sstätte Manufacturing Plant Electric Machinery Technology an), Co., Ltd. , Jiangfeng Road ou Town n City, Jiangsu Province China
Prüfzeichen Test Mark Geprüft nach Tested acc. to EN 60950-1:2006+A1 Beuert geprüft Sicherheit Regelmäßige Produktiona- Überwachung www.tuv.com ID 2000000000	1+A1+A12+A2
Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification) Ventilator (DC Fan) wie Blatt (as page) 01 Änderung (Change)	Lizenzentgelte - Einheit License Fee - Unit
(Test Requirement) (see above)	· 研發處 2019.09.12 發行章
ANLAGE (Appendix): 1 - 1.79 Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konf les Produktes mit den oben genannten Standards und Prüfgrundlagen Zusätzliche Anforderung in Ländern, in denen das Produkt in Verkehr gebracht werden solt, müssen zusätzliche betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance. TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel. (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety	TOTMITAT gen Zertifizierungsstelle

Mouser Electronics

Authorized Distributor

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