SECRETORIES PROVA

ТО :	THE AND THE STREET CONTROL OF THE STREET CON	Nazysku Egyk szeletkölnők fernén köntésén chát a közet egyetetek köntés	Menter de la company de la						
REF. No.									
APPROVED DATE 研發處 ¹⁹⁸⁸⁻⁸⁻⁴ 簡文榮	CHECKED DATE 研發部 2008 8: 4. 東雪眞 新春文	PREPARED DATE	登度 -8-1 淑慧						
MODEL No. AD0312MB-G56 P.S. DESCRIPTION: DC FAN (RoHS) REV. B									
ID No.	CHARLE THE PROPERTY OF THE PRO								
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.







ADDA CORPORATION

DA'TA-SHEET

Engineering

BRUSHLESS AXIAL COOLING FANS.

Printed on: 08/07/31

Customer Ref: (RoHS)

ADDA Model No. : AD0312MB-G56

Samples attached: piece(s)

Safety Approval : CE

Specifications _____

> SPECIFICATION / CONDITION ITEM

DIMENSIONS 30x30x10 MM

BEARING TYPE BALL

RATED VOLTAGE 12.0 VDC

OPERATING VOLTAGE RANGE : 10.8 VDC - 13.2 VDC

START-UP VOLTAGE VDC, NOMINAL 9.0

RATED / ACTUAL CURRENT : 0.120 Amp. + 10% MAX / 0.046 Amp.

RATED / ACTUAL POWER 1.44 / 0.55 Watt. :

RATED SPEED $9000 \text{ RPM } \pm 15\%$

(IN FREE AIR AT RATED VOLTAGE)

AIR FLOW 4.1 CFM

(IN FREE AIR AT RATED VOLTAGE)

STATIC AIR PRESSURE 0.148 Inch Water

(IN FREE AIR AT RATED VOLTAGE)

NOISE LEVEL 27.9 dB(A)

MOTOR PROTECTION BY IMPEDANCE

, AWG#28 CONNECTION LEAD TYPE WIRE .

Hours at 40°C / 65% LIFE EXPECTANCY 70000

NET WEIGHT 8 Gram.

PACKING 560 pcs. per Export Carton

Unless otherwise stated, the relative humidity is 65%, and the

temperature is 40°C for the standard testing.

Should you have any doubt, please refer to the environmental conditions

specified in the acknowledgement document.

ADDA CORPORATION

Model No.: AD0312MB-G56

Page 1/4

SPECIFICATION

-	Λ	SC	\cap	P	F
			_		

- 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

3 · 0 DIMENSIONS & CONSTRUCTION

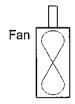
All dimensions, Direction of rotation and air flow were specified as per drawing attached.

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 standard or DIN24163 specification in a doublechamber testing with intake side measurement.
- 4 · 8 Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

NOISE LEVEL MEASUREMENT





Direction of air flow >>>>>



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

ADDA CORPORATION

Model No.: AD0312MB-G56

Page 2/4

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°C to +70 °C 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 specificalton in the strength shall meet the specifical ton.

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.

Model No.: AD0312MB-G56

8.0 REMARKS

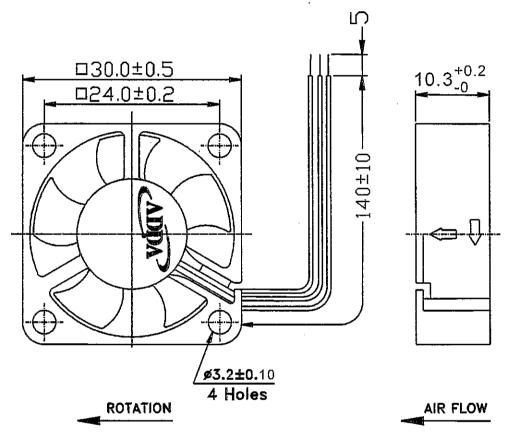
- 8.1 Material and construction are subject to change without advance notice. The changes should be within specification.
- 8.2 All fans shall meet the quality inspection under sampling plan MIL-STD-105E as follow:

 Critical
 0.25%

 Major
 1.00%

 Minor
 2.50%

9.0 OUTLINE STYLING & DIMENSIONS



LEAD WIRES: UL 1571, AWG28, L = 140 +/- 10 MM

Red = positive; Black = negative.

Blue = FG

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 determined to the second second

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.

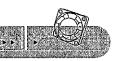
10.4 For the models without reverse connection of polarity protection, please do not

connect the lead wire in reverse

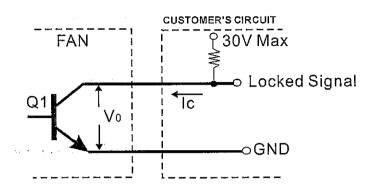
ADDA CORPORATION

Model No.: AD0312MB-G56





Output of locked signal
*Output type.....Open collector type
*Electrical design suggestion:
(External signal function design is decided by customer)



*Output waveform

LOCK LOCK RELEASE

Supply voltage

Fan rotation

Fan current

IFLOCKED MAYBE HIGH OR LOW

Locked signal Vol.

2008. 8. 04

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DC Fans category:

Click to view products by ADDA manufacturer:

Other Similar products are found below:

614R AUB0612L AFB0948HH-S687 G2E085-AA05-10 4318/12T AUB0912H-F00 3412N/2ME W2G110-AM39-01 8412GLV 8412NGL12 6448-384 4114N/17-251 4318/2R 4412F/2D 424JMU 4414/2HH 4112 N/12GL-175 9GA0912F402 9GA0812B20011

AFB0824SHBAV1 DV5214/2NP-230 9GA0912H4021 THC1548MGDJJ 9GA0812B2001 GFB1224SHG 8500NU 9WG1212E101-E
3241.124 DC0401012V2B-3T0 ASFP14391 ASFP64371 ASFP64391 ASFP84391 ASFP92391 9A0612G402 AD5012HB-C71

AD5012MB-C71 ASFP84372 ASFP64372 31100-000440-RS 026758A 514F MEC0381V1-000U-G99 4292 MF60152V1-1000U-G99
3610KL-04W-B50-D00 109P0412K3023 EE92251B1-000U-F99 8218J/2H4P PF60381B1-000U-S99