

CUSTOMER:  
DISTRIBUTOR:  
(PE48AA1)

NO.: DF16110037 (3)

## APPROVE SHEET

[ Compliance with RoHS ]

PRODUCT: DC BRUSHLESS FAN

USER P/N: \_\_\_\_\_

Parts No.: JF1238B1UM142CGW9RP5

Printed model number on the stick: JF1238B1UMPR

(SIGNATURE)



APPROVED	CHECKED	DRAWN
		郝文校 2016/11/25

微信扫码  
咨询工程师



JIANVU 健策  
0755-23706799

## 1. MECHANICAL:

1-01	Dimension	Dimension of fan shall be shown in the outline styling drawing attached.
1-02	Motor	Four-pole motor.
1-03	Frame	Plastic material UL 94V-0
1-04	Impeller	Plastic material UL 94V-0
1-05	Free drop shock	In minute package condition, the fan should withstand each one drop of three faces from 30cm distance height onto 10 mm thickness of wooden board.

## 2.ELECTRICAL:

2-01	Rated current	Rated current shall be measured after 30 minutes continuous rotation at rated voltage.
2-02	Start voltage	The voltage that enable to start the fan by sudden switch on.
2-03	Rated Speed	Rated speed shall be measured after 30 minutes continuous rotation at rated voltage.
2-04	Input Power	Input power shall be measured after 30 minutes continuous rotation at rated voltage.
2-05	Lock Current	Locked current shall be measured Within one minute at rotor locked, after 30 minutes continuous rotation at rated voltage in clear air.
2-06	Insulation resistance	More than 10M ohm at 500 V.D.C between lead and housing.
2-07	Dielectric strength	Measured 5 mA(max) trip current at 700 V.A.C for 3 sec. between lead and housing.
2-08	Locked motor protection	Designed to meet UL, CUL and TUV.
2-09	DO NOT use power or ground PWM to control the fan speed.If the fan speed needs to be adjusted,please contact JAMICON to customize the product design for your application	

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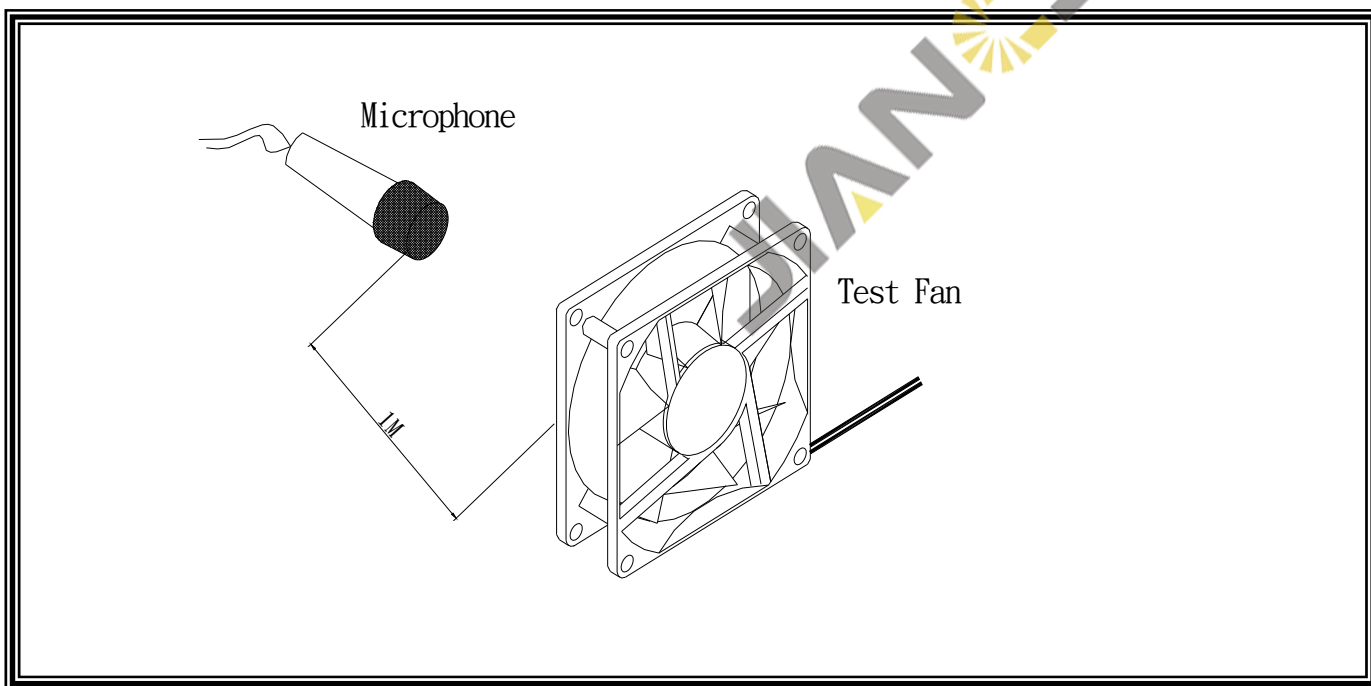
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### 3.CHARACTERISTICS:

3-01	Air Flow & Static Pressure	The air flow data and static pressures should be determined in accordance with AMCA standard or DIN 24163 specification in a double- chamber testing with intake-side measurement.
3-02	Noise level	The measurement of noise level is carried out with reference to DIN 45635 in an echoic chamber with the microphone positioned 1 M from the air intake. Testing fan shall be hung in clean air.



### 4.ENVIRONMENTAL:

4-01	Operating temperature	-10℃ to 70℃ (ordinary humidity)
4-02	Storage Temperature	-40℃ to 70℃ (ordinary humidity)
4-03	Humidity	After 96 hrs, 95% RH 40±2℃ per MIL-STD-202F method 103B, Humidity test , The measured data of insulation resistance & dielectric strength should meet the specification listed in attach.
4-04	Thermal Shock	After thermal shock test per MIL-STD-202F method 107D, Condition D, The measured data of insulation resistance & dielectric strength should the specification

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## 5.DATA-SHEET:

MODEL: JF1238B1UM142CGW9RP5

### 5-1. SPECIFICATION:

NO.	ITEM	SPECIFICATION	UNIT	CONDITION
5-1-01	Dimension	119*119*38	mm	-----
5-1-02	Bearing	Dual Ball	-----	-----
5-1-03	Rated Voltage	12.0	VDC	-----
5-1-04	Operating Voltage	6.0~13.8	VDC	MAX 13.8V
5-1-05	Start Voltage	6.0	VDC	On/off test max.
5-1-06	Speed	3600	R.P.M	±10%, At rated Voltage
5-1-07	Input Current	0.96	Amp	At rated Voltage
5-1-08	Input Power	11.52	Watt	At rated Voltage
5-1-09	Nominal Current	1.00	Amp	At rated Voltage
5-1-10	Air Flow	144.13	CFM	At 0 static Pressure of rated speed
5-1-11	Static Pressure	0.50	inchH <sub>2</sub> O	At 0 air flow of rated speed
5-1-12	Noise	50.7	dBA	At rated speed
5-1-13	Life Expectancy(L10)	70,000	Hours	At 40℃ (Bearing)
5-1-14	Motor protection	Electronic protected		
5-1-15	Polarity Protection	It will not damage the fan while reverse input.		
5-1-16	Auto Restart	YES	-----	-----
5-1-17	Speed Signal Output	YES(1)	-----	-----
5-1-18	Alarm Signal Output	NO	-----	-----
5-1-19	Rotation direction	From the label side	-----	Clockwise
5-1-20	Weight	307	Gram	Per each piece
5-1-21	Safety Certificate	UL,CUL,TUV,CE	-----	-----
5-1-22	IP Rating	IP55	-----	-----

### 5-2. LEAD WIRE:

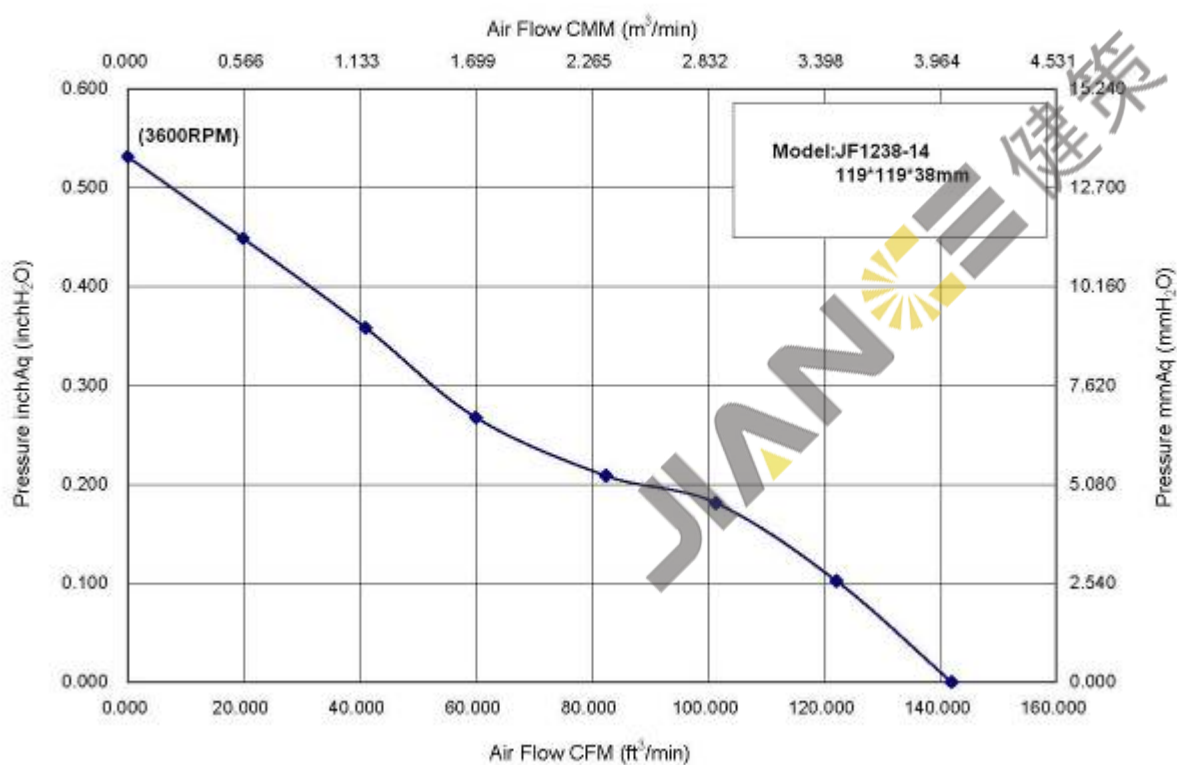
NO.	ITEM	SPECIFICATION			
5-2-01	AWG NO. & Authorize	24 AWG, UL1007 (Twist wire)			
5-2-02	Color	—	Speed	+	
		Black	Yellow	Red	
5-2-03	Line Length	750±20mm			
5-2-04	Connector	Notes as: Pitch:2.5mm Housing:JST XHP-3 compatible parts.			
5-2-05	Tube	No			

Note(1):Don't direct connect the speed /Alarm signal output to "+"or "-".



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# JAMICON FAN PERFORMANCE DATA SHEET



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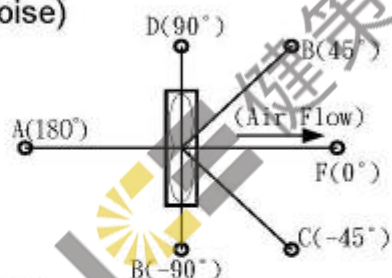
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## 風扇噪音性能測試報告 (The Test Report of Fan Noise)

風扇型號(Sample Type) JF1238  
基本規格(roperties) DC 12 V 7 葉 4 極  
測試日期(Test Date) 2010 年 8 月 31 日  
測試編號(Tset No.) 001  
測試設備(Test Equip) B&K 2236



Fulfills : IEC 651-1979 TYPE1 I IEC 804-1985 TYPE 1  
ANSI S1.4-1983 TYPE S1 ANSI S1.43-199X TYPE 1

### 測試條件(Test Conditions)

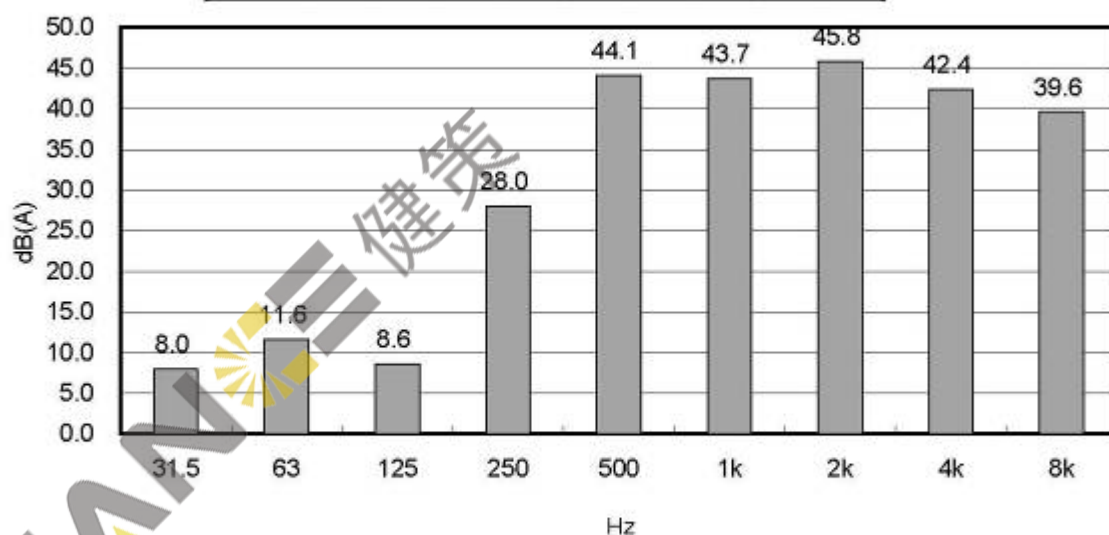
輸入電壓(Input Voltage) 12 V  
量測時間(Measuring Time) 20 Sec  
麥克風距離(Mic. Distance) 100 cm  
麥克風角度(Mic. Angle) 180°  
頻域加權(Freq. Weighting) A  
時域加權(Time Weighting) SLOW  
背景噪音(Background Noise) 15.0 dB(A)  
溫度(Temperature) 29.1 °C  
相對濕度(Relative Humidity) 68.0 %

### 測試結果(Test Results)

電壓(Passing Voltage)  
電流(Electric Current)  
消耗功率(Power Dissipation)  
轉速(Rotation Speed) 3600 RPM  
均能聲壓位準(Time-averaged SPL + Leq) (依據CNS 8753)  
量測點(At Meas. Point) 50.70 dB(A)  
1米處(At 1m Point) 50.70 dB(A)  
最大聲壓位準(MaxL) 51.50 dB(A)  
最小聲壓位準(MinL) 49.80 dB(A)

聲壓位準頻譜圖(Sound Pressure Level Octave-Band Spectrum)

頻率(Hz)	31.5	63	125	250	500	1k	2k	4k	8k
dB(A)	8.0	11.6	8.6	28.0	44.1	43.7	45.8	42.4	39.6



簽核人員: \_\_\_\_\_

操作人員: 周晃寬 Huang-Kuan Chou.

凱美開發(Developer)工業技術研究院機械工業研究所(MIR/ITRI)

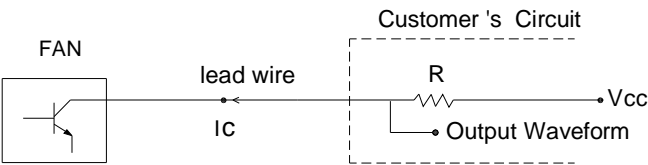
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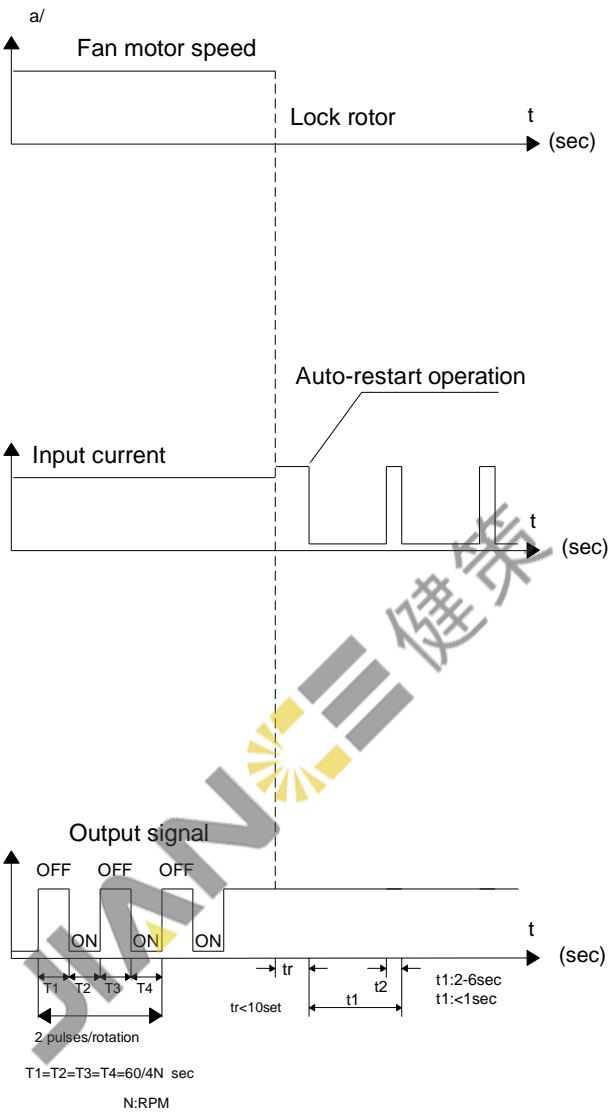
# Auto restart /Tachometer signal (C)

.Diagram:



Please select R so that  $I_c < 10\text{ mA}$

Type of signal



Where  
Rated Voltage:5V  
Vcc:7V max

Where  
Rated Voltage:24V  
Vcc:28V max

Where  
Rated Voltage:12V  
Vcc:16V max

Where  
Rated Voltage:48V  
Vcc:60V max

