CUSTOMER:大族
DISTRIBUTOR:健策
(PE48AA1)

APPROVE SHEET
[Compliance with RoHS]

PRODUCT: DC BRUSHLESS FAN
USER P/N.:
Parts No.: JF1238B2TK143-JGCR
Printed model number on the stick:JF1238B2TK-R

JAMICON GROUP
DONGGUAN JAMICON ELECTRONIC CO., LTD
Tel: +86-769-87919555





ECN 變更履歷表

成品料號:	JF1238B2TK143-JGCR	客戶:	健策-大族				
版本	變更內容		日期				
A0	初版		2019/11/27				
			4				
	Ť						







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 (P.B.T).
1-04	Impeller	Plastic material UL 94V-0 (P.B.T).
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:25℃*65%RH

		00 / 01 11 1
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.

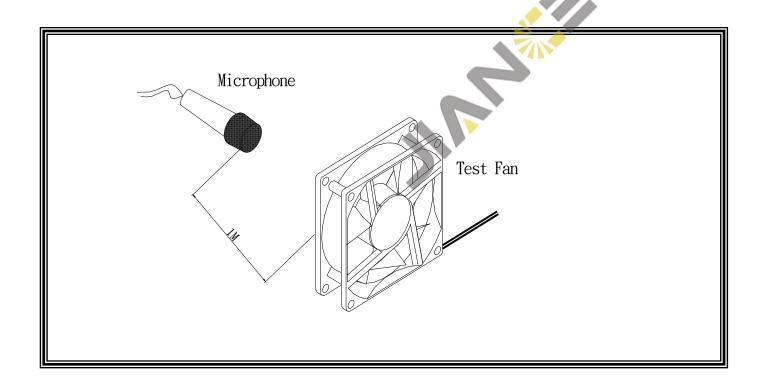
DO NOT use power or ground PWM to control the fan speed. If the fan speed needs to be adjusted, please contact JAMICON to customize the product design for your application.





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°C to 70°C (ordinary humidity)
4-03	Humidity	After 96 hrs, 95% RH 40±2°C 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.





5.DATA-SHEET:

SAP NO.: J1238B2TK143CJGC PARTS NO.: JF1238B2TK143-JGCR

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	24.0	VDC	
5-1-04	Operating Voltage	12.0~27.6	VDC 💉	MAX. 27.6V
5-1-05	Start Voltage	12.0	VDC	On/off test max.
5-1-06	Snood	0~4000	R.P.M	At rated Voltage, Duty cycle 0~100%
5-1-06	Speed	4000	K.F.IVI	At rated Voltage, Duty cycle 0~100%
5-1-07	Input Current	0.60	Amp	At rated Voltage Duty cycle 100%
3-1-07	input Guirent	0.02	Allip	At rated Voltage Duty cycle 0%
5-1-08	Input Power	14.40	Watt	At rated Voltage Duty cycle 100%
3-1-00	input Fower	0.48	wall	At rated Voltage Duty cycle 0%
5-1-09	Nominal Current	0.60	Amp	At rated Voltage
5-1-10	Air Flow	163.86	CFM	At 0 static Pressure of rated speed
5-1-11	Static Pressure	0.63	inchH₂O	At 0 air flow of rated speed
5-1-12	Noise	52.90	dBA	At rated speed
5-1-13	Life Expectancy(L10)	65,000	Hours	At 40℃(Bearing)
5-1-14	Motor protection	Electronic protected	ł	
5-1-15	Polarity Protection	It will not damage th	ne fan while re	everse 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		





5-2. LEAD WIRE:

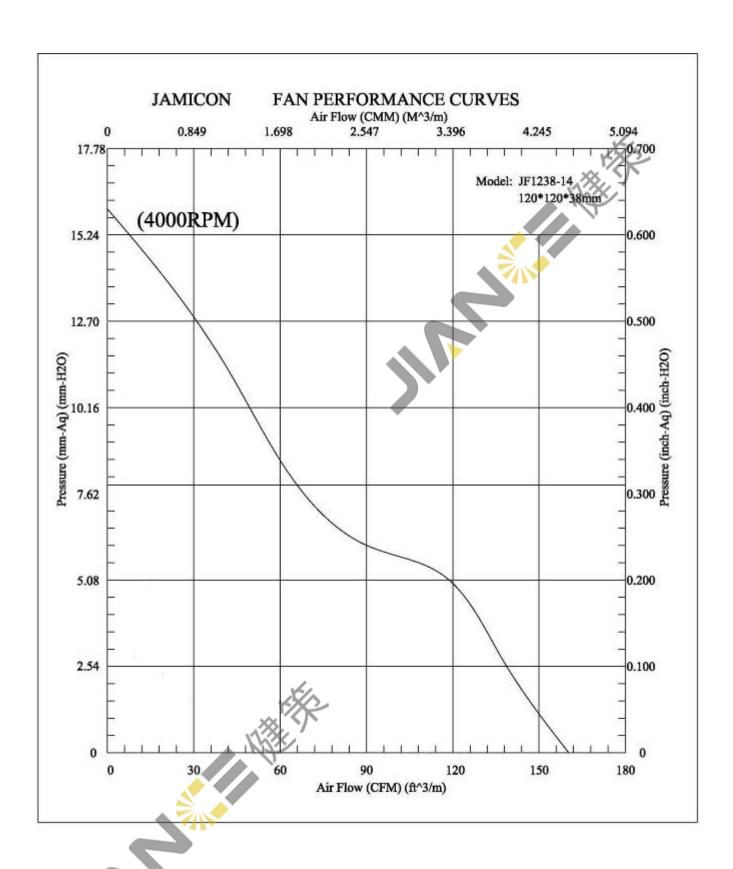
NO.	ITEM	SPECIFICATION					
5-2-01	AWG NO. & Authorize	26 AWG UL1061(The end of wire with tin as drawing)					
E 0 00	Calar	_	+	Speed	PWM		
5-2-02	Color	Black	Red	White	Blue		
5-2-03	Line Length	500±15mm		13			
5-2-04	Connector	Notes as: Not available.		A			
5-2-05	Tube	No					

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













JAMICON 凱美電機股份有限公司KAIMEI ELECTROMIC CORP.

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(roperities) DC V 7 禁 4 極 測試日期(Test Date) 2010 年 9 月 1 日

测试编载(Tset No.) 001

测试設備(Test Equip) B&K 2236

B&K 2236

Fulfils: IEC 651-1979 TYPE1 | IEC 804-1985 TYPE 1

ANSI S1.4-1983 TYPE S1 ANSI S1.43-199X TYPE 1

测试条件(Test Conditions)

测试结果(Test Results)

D(90°)

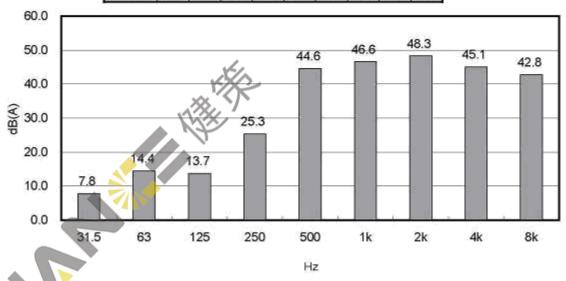
C(-45°)

A(180°)

输入電壓(Input Voltage)	V		Hz	愛麼(Passing Voltage)		
量測時間(Measuring Time)	20	Sec		意流(Electric Current)		
麥克威距離(Mic. Distance)	100	cm		消耗功率(Power Dissipation)		
麥克風角度(Mic. Angle)	180			轉速(Rotation Speed)	4000	RPM
頻城か權(Freq.Weighting)	Α			均能學壓位準(Time-averaged SPL	· Leq) (依	據CNS 8753)
時城加權(Time Weighting)	SLOW			量測點(At Meas. Point)	52.90	dB(A)
背景噪音(Background Noise)	15.0	dB(A)	É	1未處(At 1m Point)	52.90	dB(A)
溫度(Temperature)	29.1	°C		最大學壓位準(MaxL)	52.10	dB(A)
相對濕度(Relative Humidity)	68.0	%		最小學壓位準(MinL)	51.70	dB(A)

學壓位準頻譜區(Sound Pressure Level Octave-Band Spectrum)

頻率(Hz)	31.5	63	125	250	500	1k	2k	4k	8k
dB(A)	7.8	14.4	13.7	25.3	44.6	46.6	48.3	45.1	42.8

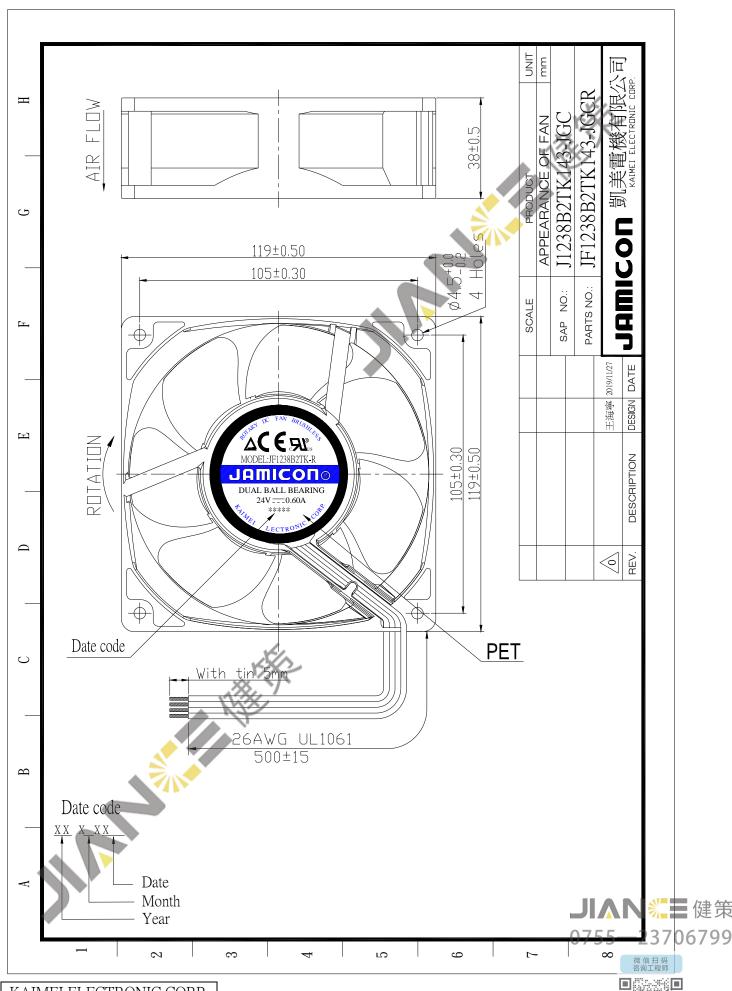


操作人員: 周晃寬 Huang-Kuan Chou.

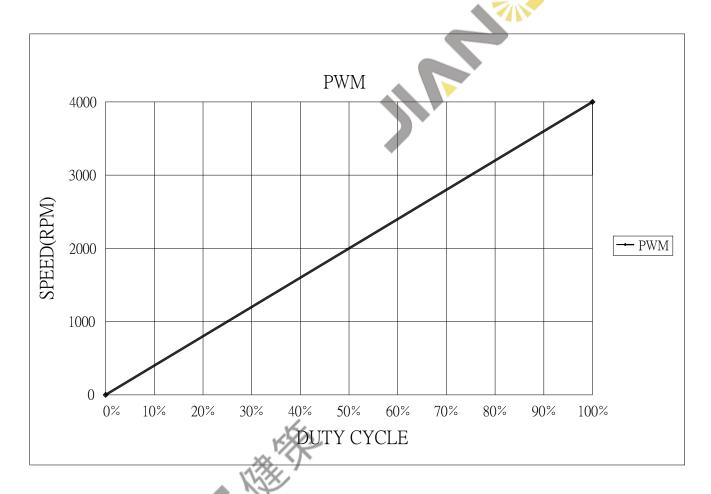
JIAN 編章 健策 0755-23706799



mer)工業技術研究稅機械工業研究所(MIRIJ/TTRI)



JF1238B2TK143-JGCR TEST								
	F=21-28KHz	VIL≦0.4V VIH=	=2~5.5V					
DUTY CYCLE	Rated Voltage	CURRENT (REF)	SPEED (RPM)	RANGE(RPM)				
0%	241/	0.02A	0	不轉				
100%	24V	0.60A	4000	±10%				
No PWM Signal		0.60A	4000	±10 <i>7</i> 0				







PWM speed control

PROVISION OF DIGITAL PWM SPEED CONTROL & LOCKED SIGNAL(FG)
OUTPUT OF LOCKED SIGNAL------------------OPEN COLLECTOR TYPE
(External signal function design is decided by customer)

CUSTOMER'S CIRCUIT **CUSTOMER'S CIRCUIT** FAN Vcc= 5V B= 7V MAX=B I TIT! PWM Vcc=12V B=16V RESISTER Vcc=24V B=28V INPUT OUTPUT DIGITAL o SPEED FG SIGNAL Vcc=48V B=60V **PWM** CONTROL SIGNAL GND o GND

*TRANSISTOR Q1 AT "ON" POSITION

COLLECTOR CURRENT------Ic= 10MA MAX SATURATION VOLTAGE------Vol= 1V MAX

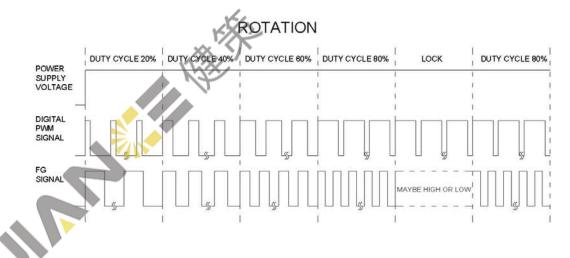
*TRANSISTOR Q1 AT "OFF"POSITION

RELEASE VOLTAGE------VoH ≤ Vcc

* DIGITAL PWM SPEED CONTROL POSITION

PWM INPUT VOLTAGE HIGH------V_{IH}= 5.5V MAX PWM INPUT VOLTAGE LOW------V_{IL}≦ 0.4V

PWM INPUT FREQUENCY------Fpwm: 21KHz~28KHz



KAIMEI ELECTRONIC CORP.

Ji☆○755—23706799



Auto restart /Tachometer signal (C)



