CUSTOMER: 固德威 NO.:2022071905

DISTRIBUTOR: 健策

(PE48AA1)

APPROVE SHEET

[Compliance with RoHS]

PRODUCT: DC BRUSHLESS FAN

USER P/N:

Parts No.: SF0625B1TK5634JKZRP8

Printed model number on the stick:SF0625B1TKPR

(SIGNATURE)

19.JUL.2022
研發部

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APPROVED	CHECKED	DRAWG
洪文吉	鄧龍軍	郝文姣

ECN 變更履歷表

成品料號：	SF0625B1TK5634JKZRP8	客戶：	健策-固德威
版本	變更內容		日期
A0	初版		2020/05/22
A1	標籤更新為有 UL.TUV 標籤		2022/06/10
A2	線長改為正公差		2022/07/19

1. MECHANICAL:

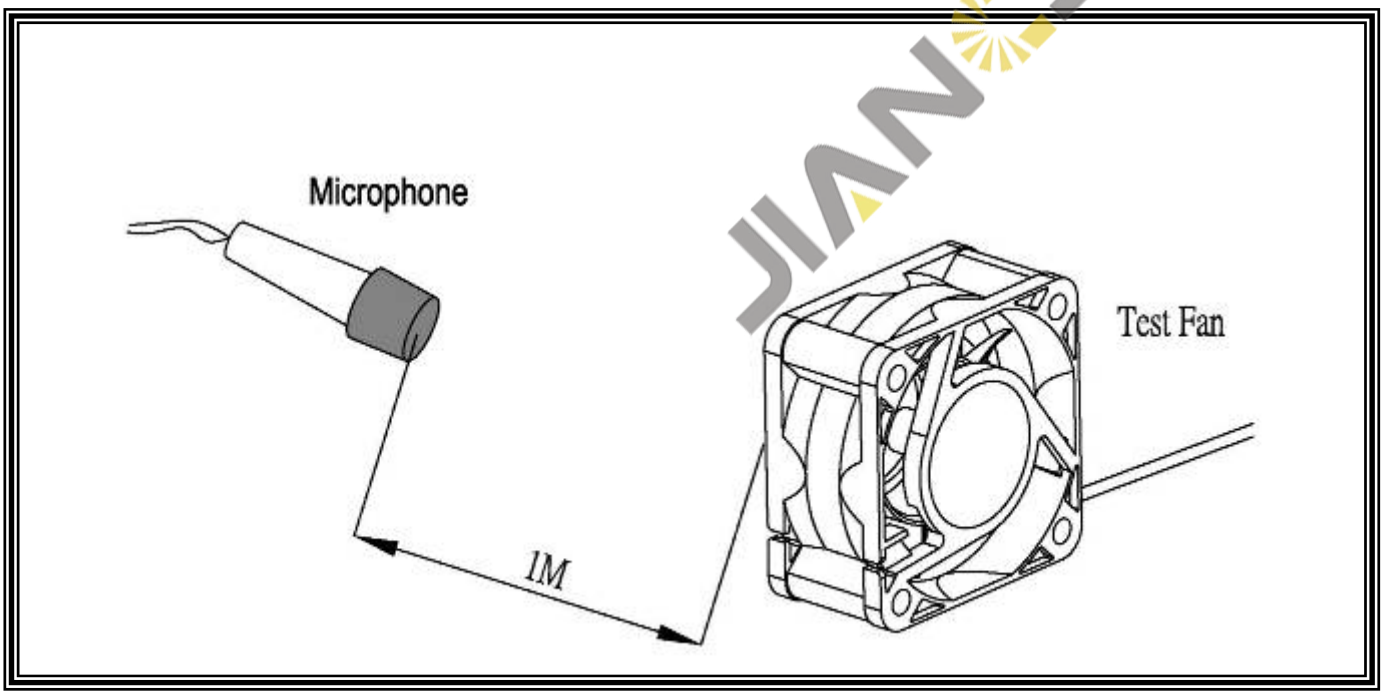
1-01	Dimension	Dimension of fan shall be shown in the outline styling drawing attached.
1-02	Motor	Four-pole motor.
1-03	Frame	Plastic material UL 94V-0.（P.B.T）
1-04	Impeller	Plastic material UL 94V-0. (P.B.T)
1-05	Free drop shock	In minute package condition, the fan should withstand each one drop of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

2.ELECTRICAL:25℃/65%RH

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	-20℃ 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.

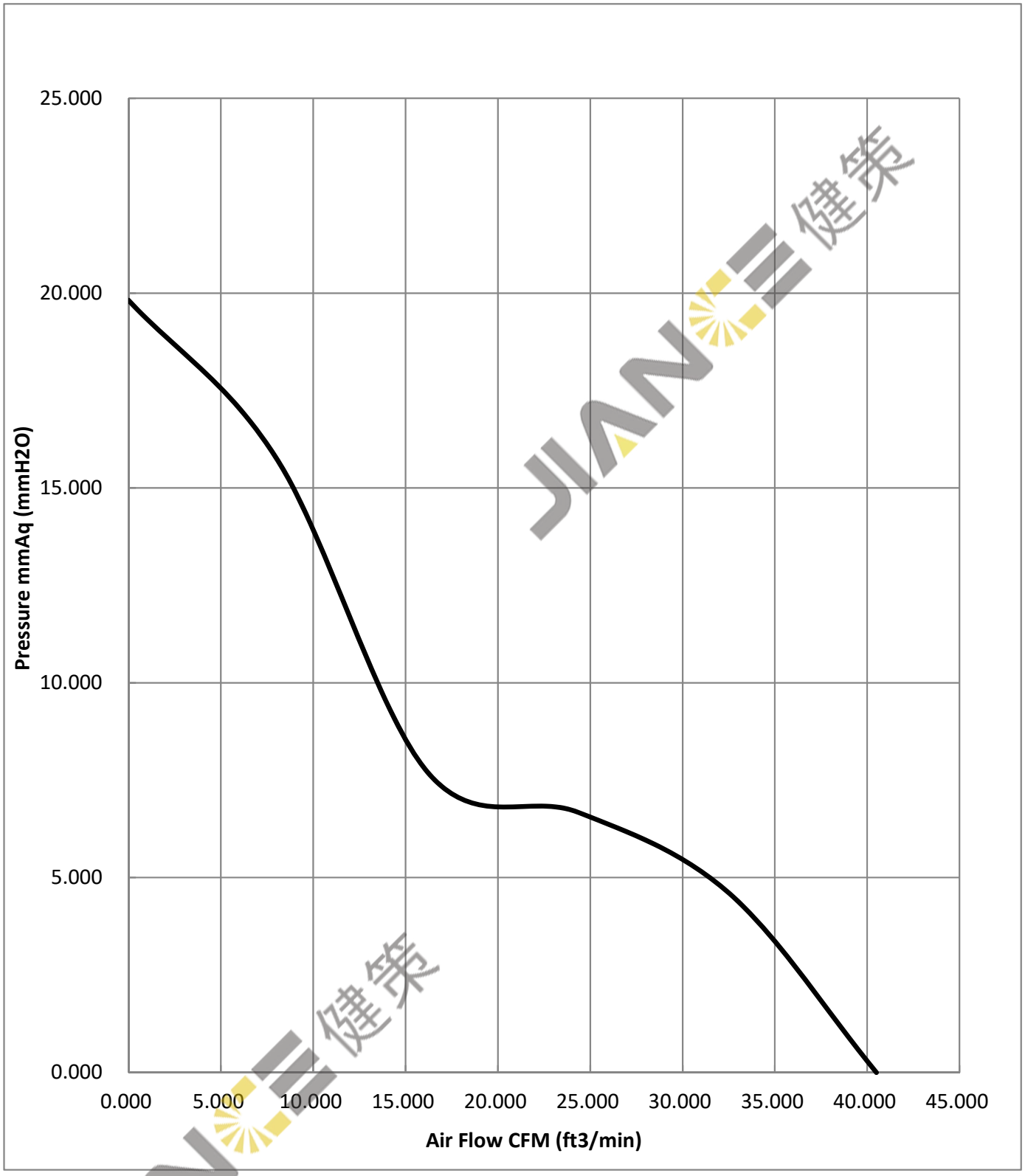
5.DATA-SHEET:
SAP NO. S0625B1TK5634JKZP8
MODEL: SF0625B1TK5634JKZRP8
5-1. SPECIFICATION:

NO.	ITEM	SPECIFICATION	UNIT	CONDITION
5-1-01	Dimension	60*60*25	mm	----------
5-1-02	Bearing	Dual Ball	---------	STAINLESS STEEL
5-1-03	Rated Voltage	12.0	VDC	----------
5-1-04	Operating Voltage	8.0~ 13.8	VDC	MAX. 13.8V
5-1-05	Start Voltage	8.0	VDC	On/off test, Duty cycle 100% min.
		12.0	VDC	Duty cycle 25%
5-1-06	Speed	0~9200	R.P.M	At rated Voltage, Duty cycle 0~100%
		9200	R.P.M	At rated Voltage, No PWM Signal
5-1-07	Input Current	0.59	Amp	At rated Voltage Duty cycle 100%
		0.02	Amp	At rated Voltage Duty cycle 0%
5-1-08	Input Power	7.08	Watt	At rated Voltage Duty cycle 100%
		0.24	Watt	At rated Voltage Duty cycle 0%
5-1-09	Nominal Current	0.80	Amp	At rated Voltage, Duty cycle 100%
5-1-10	Air Flow.	40.5	CFM	At 0 static Pressure of rated speed
		1.147	CMM	
5-1-11	Static Pressure	0.78	$inchH_2O$	At 0 air flow of rated speed
		194.29	Pa	
5-1-12	Noise.	53.0	dBA	At rated speed
5-1-13	Life Expectancy（L10）	40,000	Hours	At 60℃(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	70	Gram	Per each piece
5-1-21	Safety Certificate	CE，TUV,UL	--------	----------
5-1-22	IP Rating	IP68	--------	----------

5-2. LEAD WIRE:

NO.	ITEM	SPECIFICATION			
5-2-01	AWG NO. & Authorize	26AWG, UL3385(The end of wire with tin as drawing)			
5-2-02	Color	—	+	Speed	PWM
		Black	Red	White	Brown
5-2-03	Line Length	600+20/-0mm			
5-2-04	Connector	Notes as: Not available.			
5-2-05	Tube	NO			

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



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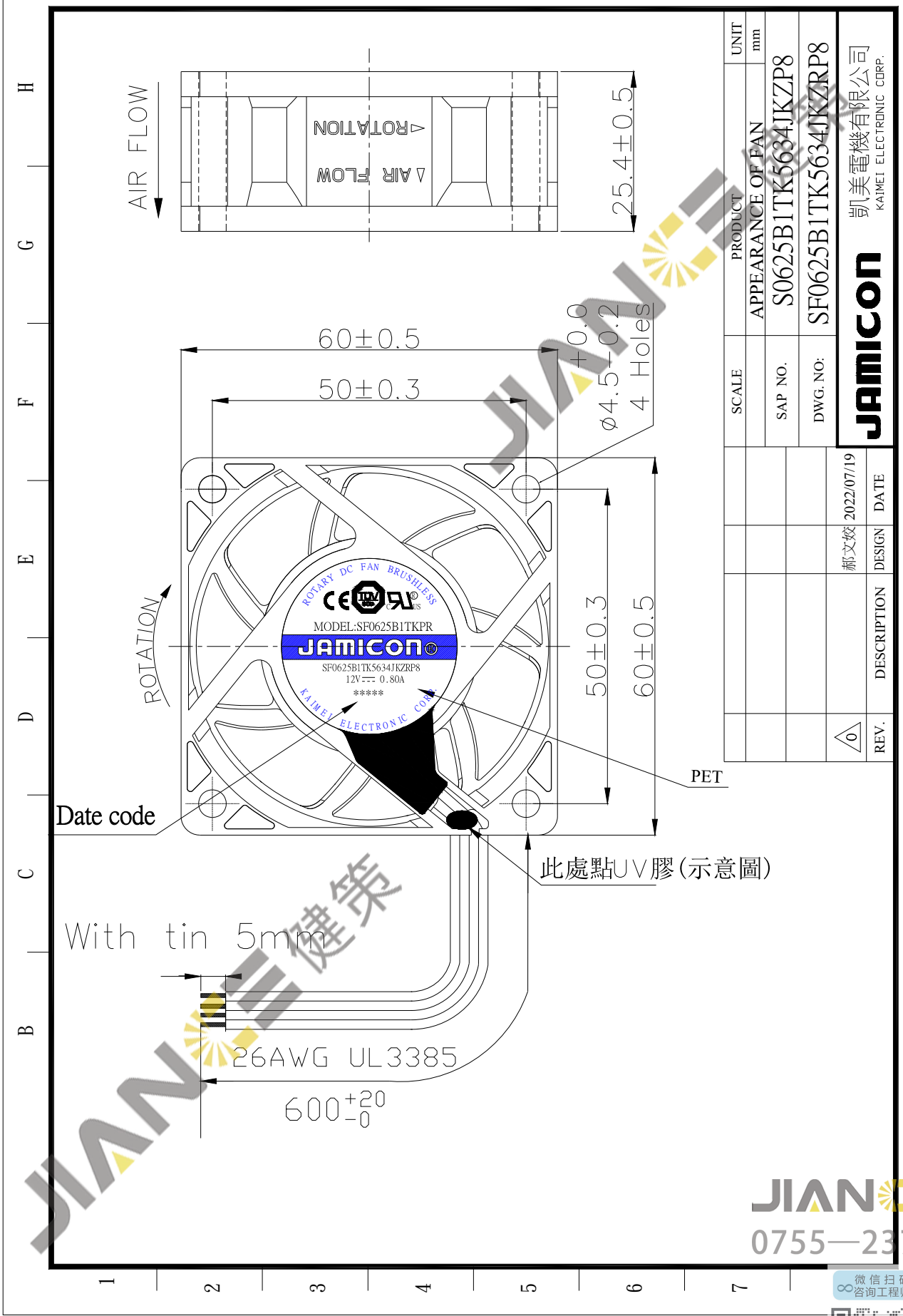

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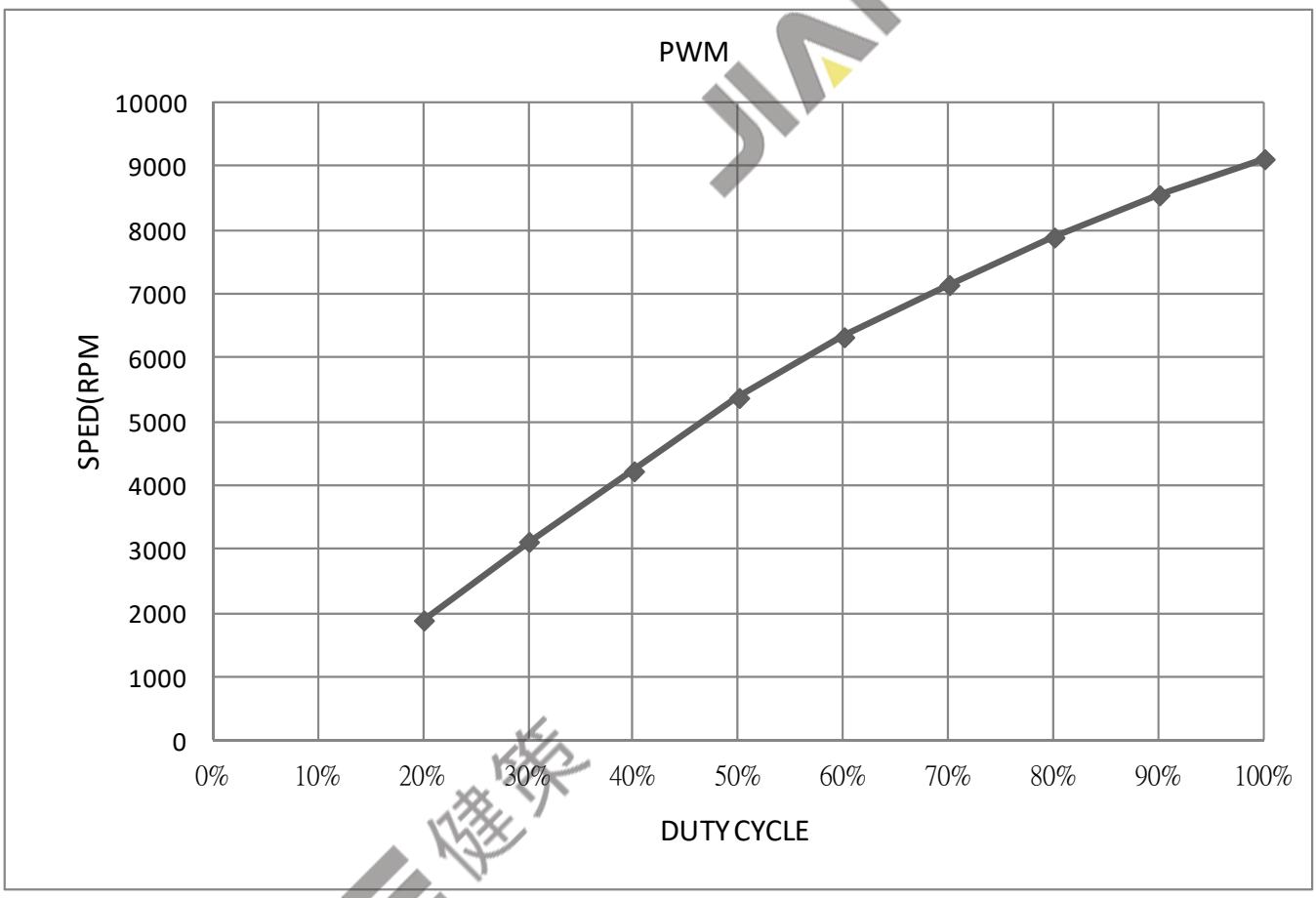
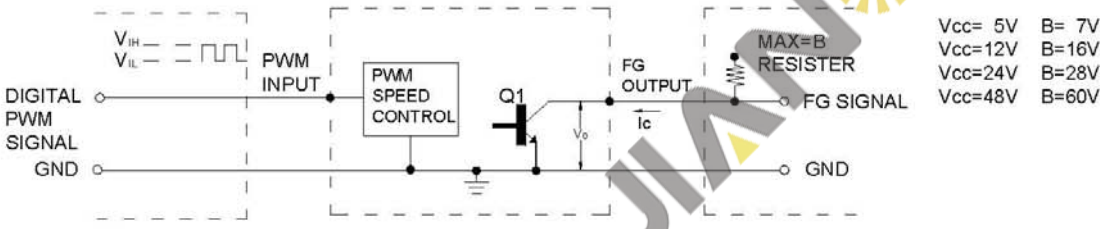
SF0625B1TK5634JKZRP8 TEST				
F=21-28KHz VIL≦0.4V VIH=2.8~5.5V				
DUTY CYCLE	Rated Voltage	CURRENT (REF)	SPEED (RPM)	RANGE(RPM)
0%	12V	0.02A	0	不轉
25%		0.03A	2400	±400
50%		0.13A	5200	±10%
75%		0.30A	7500	
100%		0.59A	9200	
No PWM Signal		0.59A	9200	



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)

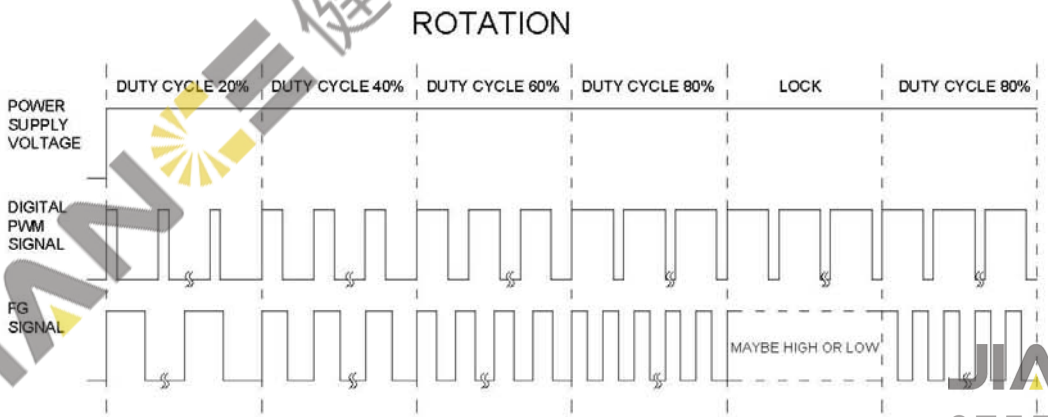
CUSTOMER'S CIRCUIT **FAN** **CUSTOMER'S CIRCUIT**



***TRANSISTOR Q1 AT "ON" POSITION**
COLLECTOR CURRENT----------I_C= 10MA MAX
SATURATION VOLTAGE----------V_{OL}= 1V MAX

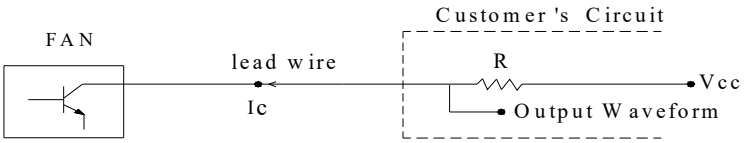
***TRANSISTOR Q1 AT "OFF"POSITION**
RELEASE VOLTAGE----------$V_{OH} \leqq V_{CC}$

*** DIGITAL PWM SPEED CONTROL POSITION**
PWM INPUT VOLTAGE HIGH----------V_{IH}= 5.5V MAX
PWM INPUT VOLTAGE LOW----------$V_{IL} \leqq$ 0.4V
PWM INPUT FREQUENCY----------F_{PWM}: 21KHz~28KHz



Auto restart /Tachometer signal (Type B)

Diagram:



Where
Rated Voltage:5V
Vcc:7V max

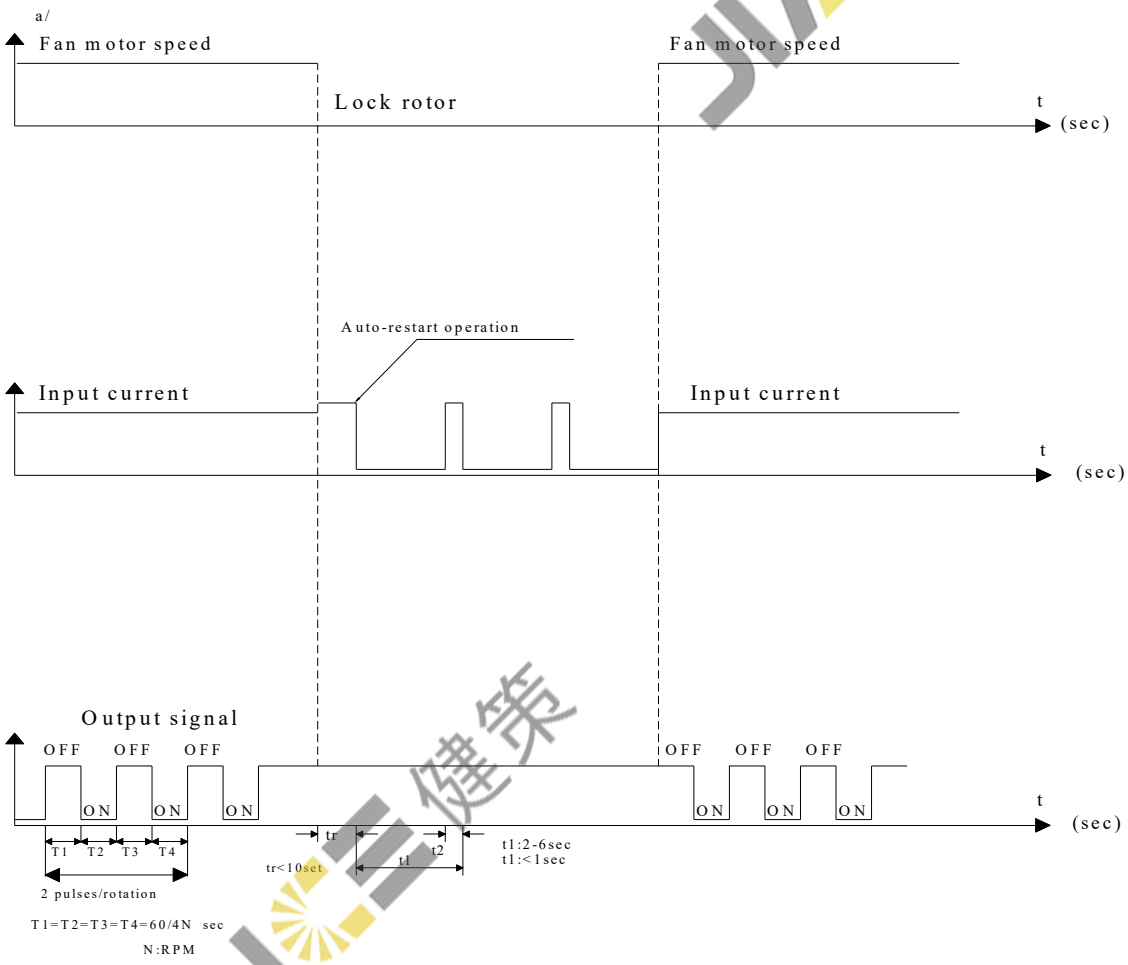
Where
Rated Voltage:12V
Vcc:16V max

Where
Rated Voltage:24V
Vcc:28V max

Where
Rated Voltage:48V
Vcc:60V max

Please select R so that Ic< 10 mA

Type of signal



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客戶：固德威
編號：R20190729001

名稱：DC散熱風扇安裝注意事項說明

拟案单位: 風扇研發 (2019年07月29日)

客戶回簽	校　對	擬　案
	尤焜儀	鄧龍軍

東莞今美康電子 承認章

版本：A　　合计页数：3 页

DC散熱風扇安裝注意事項說明

JAMICON

1.推薦螺桿扭矩

如下是安裝風扇時螺桿扭矩的建議值，如果擰緊扭矩高於推薦值，則風扇可能會變形或損壞，擰緊時要小心。

風扇安裝孔直徑（㎜）	螺絲直徑	推荐螺絲扭矩
ø3.5	M3	0.44 N.m max.
ø4.3, ø4.5	M4	0.78 N.m max.

2.有柱、無柱螺絲孔安裝推薦

1）無柱外框，不得使用長螺絲連接外框兩頭螺絲孔鎖風扇，極易使風扇變形或損壞正確的選用螺絲如圖4

2）對於需使用長螺絲連接風扇外框兩頭螺絲孔時需用有柱外框，如圖1

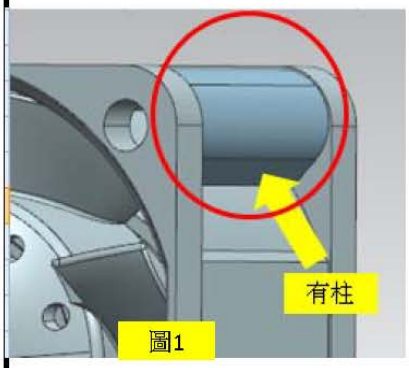


圖1

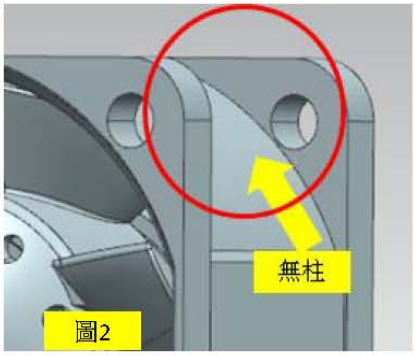


圖2

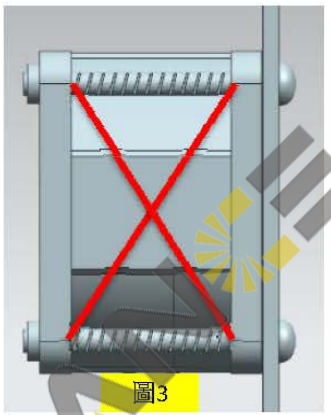


圖3

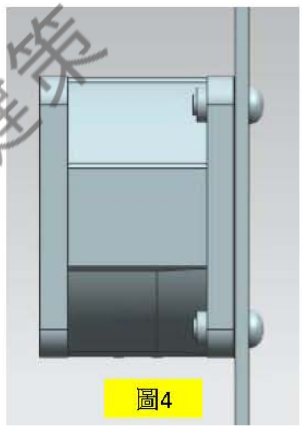
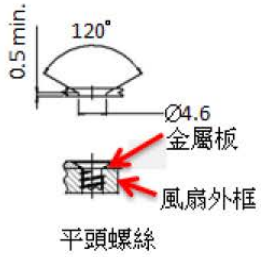


圖4

3.外框導孔螺絲推薦

對應Ø4mm導孔，平頭螺絲、圓頭螺絲尺寸推薦如下



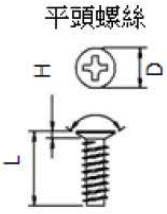
平頭螺絲

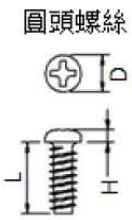
圓頭螺絲

最小安裝板厚度：t=1.2 mm

4.使用平頭、圓頭螺絲尺寸推薦

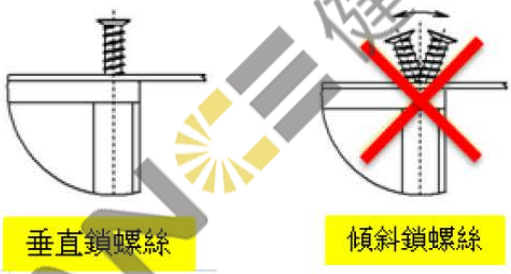
螺絲形狀	風扇安裝孔直徑	螺紋直徑	長度	螺絲頭直徑	螺絲頭深度	螺絲鎖緊方式
平頭	ø3.5	3.95	12	6.2	1.1max.	十字
圓頭		3.95	12	5.5	2	十字
平頭	ø4.3	4.75	12	6.8	1.2max.	十字
圓頭		4.75	12	7	2.6	十字
平頭	ø4.5	4.95	12	6.8	1.2max.	十字
圓頭		4.95	12	7	2.6	十字





5.操作注意事項

1）放置自攻螺釘，使其垂直並與框架安裝孔居中（圖a），然後將其擰入。
如果在螺釘不垂直的情況下將其擰入框架，則自攻螺釘可能會變形或裂開框架。
2）擰入自攻螺釘，使風扇上的安裝孔中心和安裝板上的導向孔中心對齊
（圖b）。不對齊的孔可能導致框架變形或開裂。



3）擰緊螺釘超過建議的螺釘扭矩可能會使框架變形或裂開。
4）對於有頭螺釘，如果不使用推薦的導孔形狀，將導致有頭螺釘和風扇架之間的干擾，從而導致機架裂開。