

CUSTOMER: Ropla
DISTRIBUTOR:
(PE48AA1)

NO.:TC76008(3)

APPROVE SHEET
[Compliance with RoHS]

PRODUCT: DC BRUSHLESS FAN

USER P/N: _____

Parts No.: JF0615B2SM001-210R

Printed model number on the stick: JF0615B2SM-R

(SIGNATURE)

JAMICON GROUP
KAIMEI ELECTRONIC CORP.

| | CHECKER | DESIGNER |
|--|---------|----------|
| | | |

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JAMICON GROUP
KAIMEI ELECTRONIC CORP.



1. MECHANICAL:

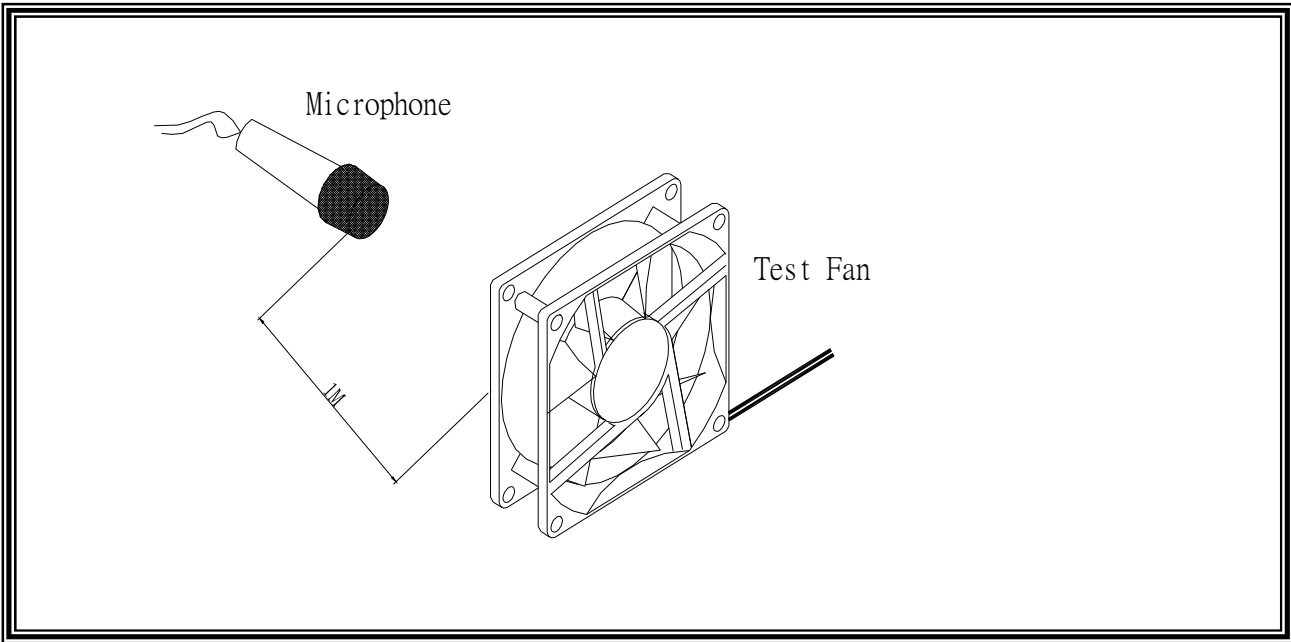
| | | |
|------|-----------------|--|
| 1-01 | Dimension | Dimension of fan shall be shown in the outline styling drawing attached. |
| 1-02 | Motor | Four-pole motor. |
| 1-03 | Frame | Plastic material UL 94V-0 (P.B.T). |
| 1-04 | Impeller | Plastic material UL 94V-0 (P.B.T). |
| 1-05 | Free drop shock | 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:

| | | |
|------|-------------------------|---|
| 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. |

3.CHARACTERISTICS:

| | | |
|------|----------------------------|--|
| 3-01 | Air Flow & Static Pressure | The air flow data and static pressures should be determined in accordance with AMCA standard or DIM 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 DIM 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°C to 70°C (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:

MODEL:JF0615B2SM001-210R

5-1. SPECIFICATION:

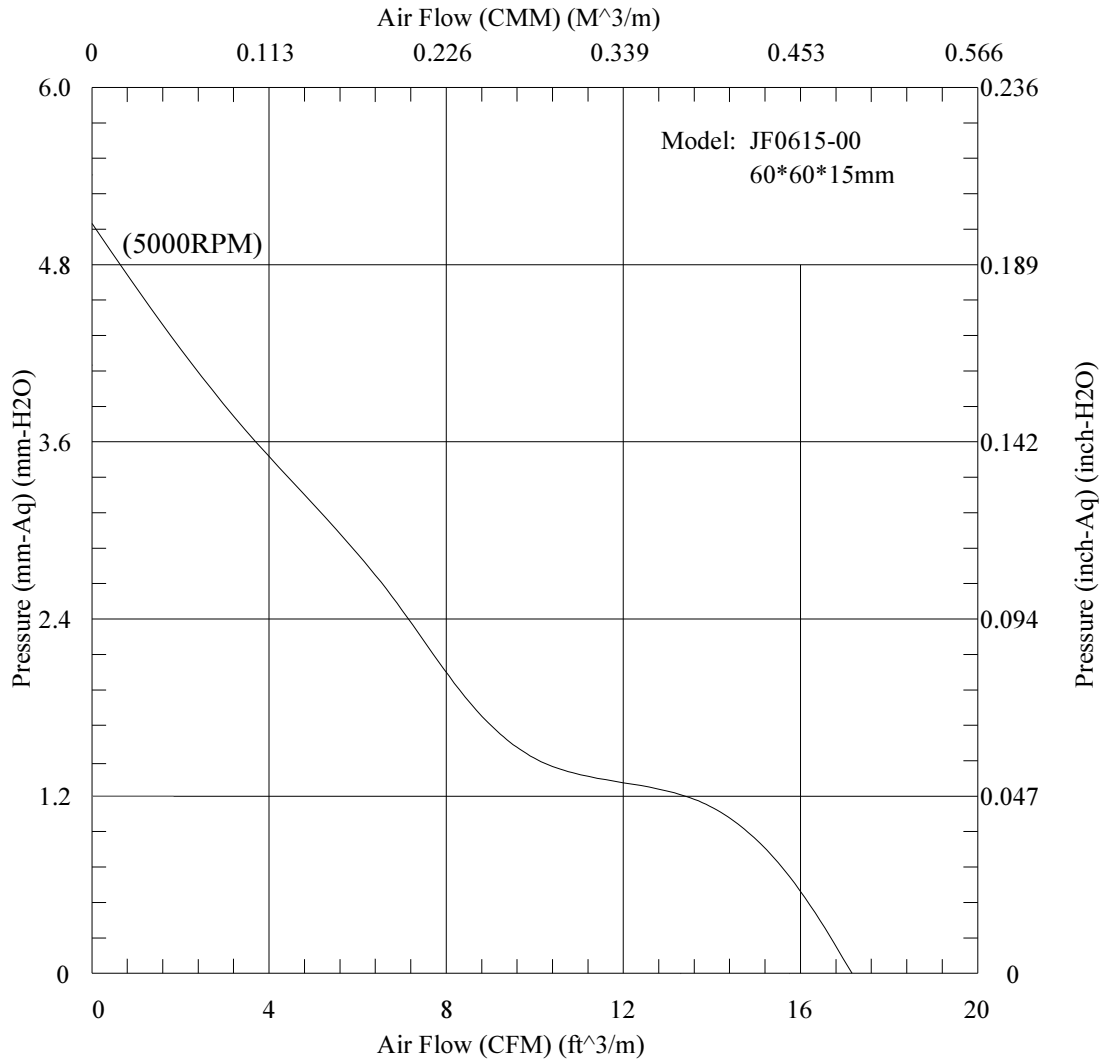
| NO. | ITEM | SPECIFICATION | UNIT | CONDITION |
|--------|---------------------|---|----------------------|-------------------------------------|
| 5-1-01 | Dimension | 60*60*15 | mm | ----- |
| 5-1-02 | Bearing | Dual Ball | ----- | ----- |
| 5-1-03 | Rated Voltage | 24 | VDC | ----- |
| 5-1-04 | Operating Voltage | 20.4~27.6 | VDC | ----- |
| 5-1-05 | Start Voltage | 12 | VDC | On/off test |
| 5-1-06 | Speed | 5000 | R.P.M | ±10%,At rated Voltage |
| 5-1-07 | Input Current | 0.10 | Amp | At rated Voltage |
| 5-1-08 | Input Power | 2.40 | Watt | At rated Voltage |
| 5-1-09 | Nominal Current | 0.11 | Amp | At rated Voltage |
| 5-1-10 | Air Flow | 17.16 | CFM | At 0 static Pressure of rated speed |
| 5-1-11 | Static Pressure | 0.200 | inchH ₂ O | At 0 air flow of rated speed |
| 5-1-12 | Noise | 33.7 | dBA | At rated speed |
| 5-1-13 | Life Expectancy | 50,000 | Hours | At 25℃&RH65% |
| 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(Ⓢ) | ----- | ----- |
| 5-1-18 | Alarm Signal output | NO | ----- | ----- |
| 5-1-19 | Rotation direction | From the label side | ----- | Clockwise |
| 5-1-20 | Weight | 45 | Gram | Per each piece |
| 5-1-21 | Safety Certificate | UL, CUL, TUV, CE | ----- | ----- |

5-2. LEAD WIRE:

| NO. | ITEM | CONDITION | | | |
|--------|---------------------|--|-----|--------|--|
| 5-2-01 | AWG NO. & Authorize | 26AWG, UL1007 | | | |
| 5-2-02 | Color | — | + | Signal | |
| | | Black | Red | White | |
| 5-2-03 | Line Length | 270±10mm | | | |
| 5-2-04 | Connector | Notes as: Not included in this lead wire. | | | |
| 5-2-05 | Tube | NO | | | |

Note①: Don't direct connect the speed signal output to “+” or “-”.

JAMICON FAN PERFORMANCE CURVES



風扇振動噪音性能測試報告

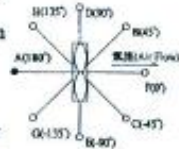
(The Test Report of Fan Vibration and Noise)

風扇型號(Sample Type): JF0615B2S
 基本規格(Properties): DC 24V 7葉 4極 5000RPM

測試日期(Test Date): 2002/10/21 PM 06:39:56
 測試編號(Test No.): (1)

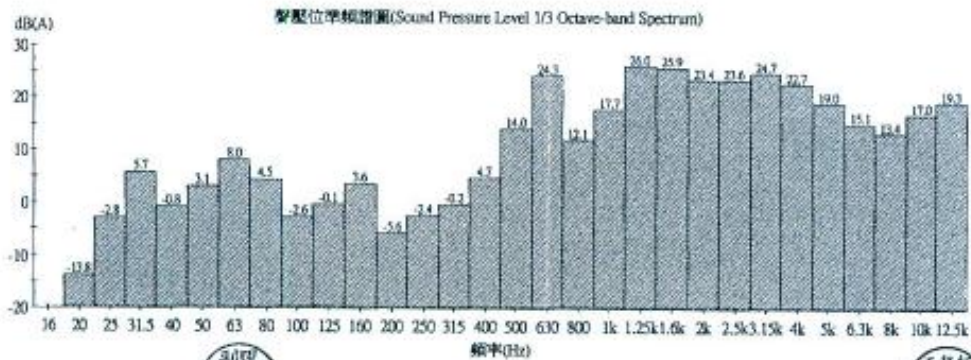
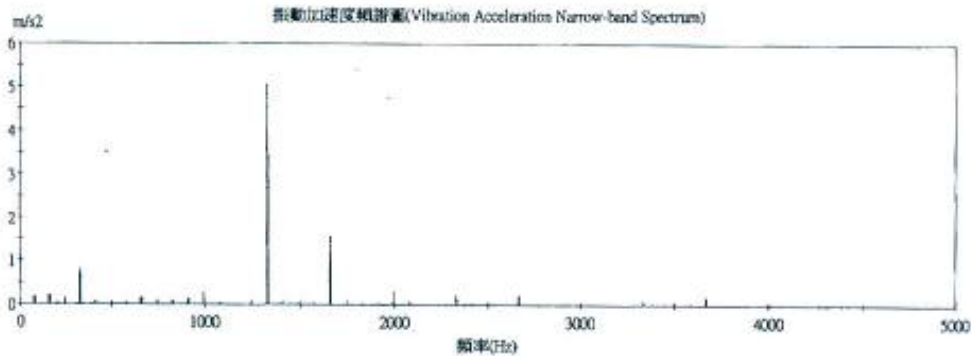
測試條件(Test Conditions)

輸入電壓(Input Voltage): 24 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): °C
 相對濕度(Relative Humidity): %



測試結果(Test Results)

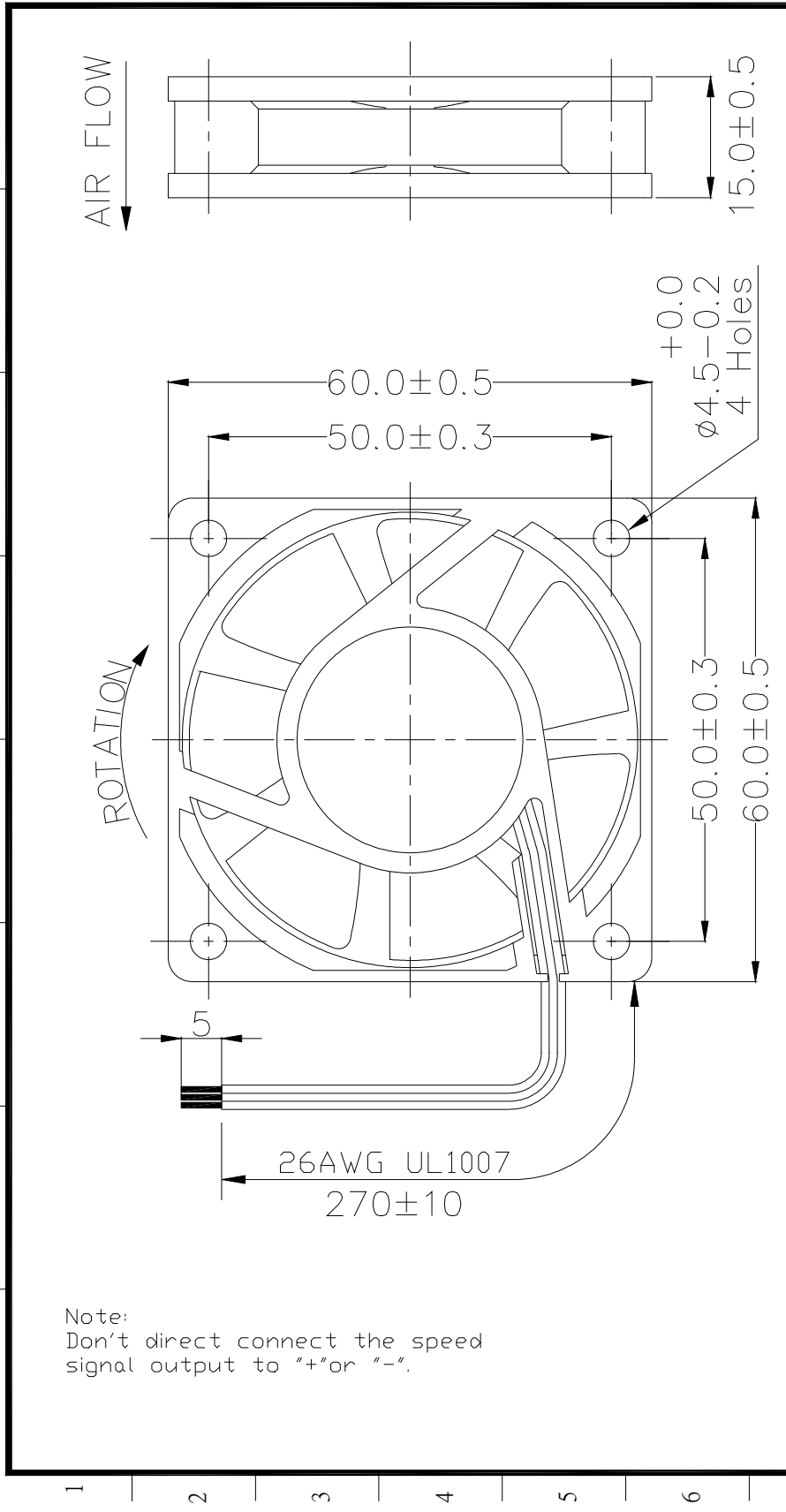
電壓(Passing Voltage):
 電流(Electric Current):
 消耗功率(Power Dissipation):
 轉速(Rotation Speed): 5009 RPM
 振動量(Vibration Level) (依據 ISO 10816-1)
 振動速度(Vib. Velocity): 0.73 mm/sec RMS
 均態聲壓位準(Time-averaged SPL, Leq) (依據 CNS 8753)
 量測點(At Meas. Point): 33.8 dB(A)
 1 米處(At 1m Point): 33.7 dB(A)
 最大聲壓位準(MaxL): 34.4 dB(A)
 最小聲壓位準(MinL): 31.4 dB(A)



審核人員(Signatory):

操作員(Operator): Michael Yu 簽章(Signature):

A B C D E F G H



1 2 3 4 5 6 7 8

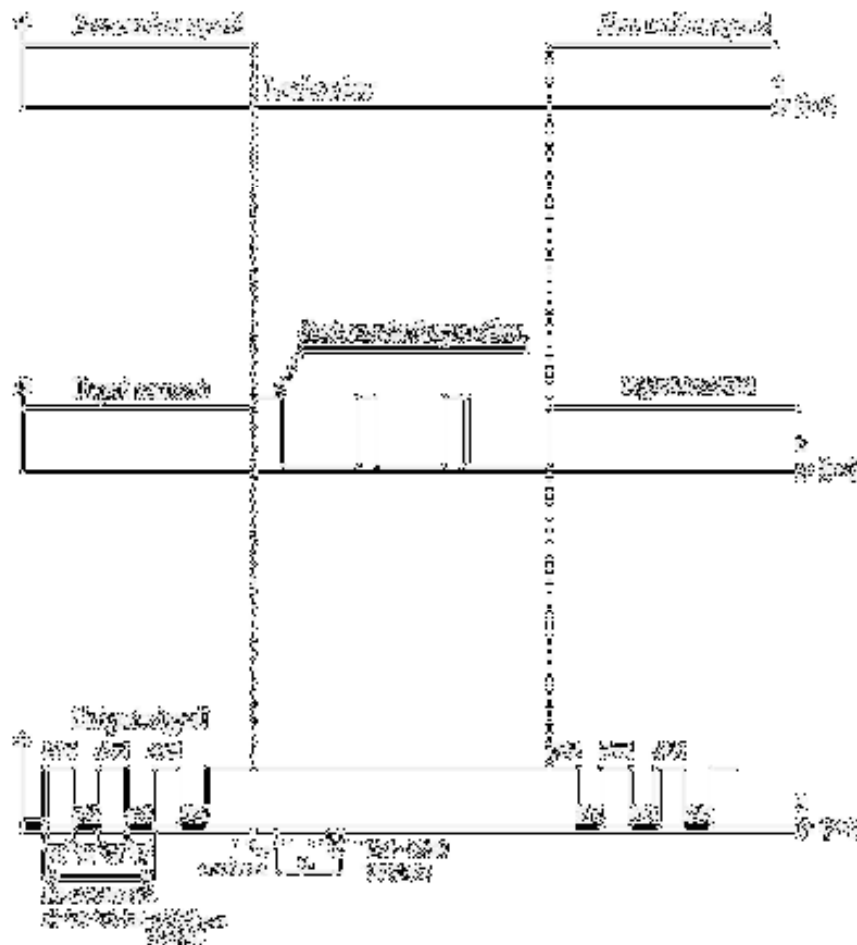
| SCALE | PRODUCT | UNIT |
|-------------|--|------|
| | APPEARANCE OF FAN | m.m |
| DWG. NO: | JF0615-00-210R | |
| REVISION | DATE | |
| 0 | 2007/6/1 | |
| DESCRIPTION | JAMICON 凯美电机有限公司 KAMEI ELECTRONIC CORP. | |

Figure 1: Cross-sectional view of the device structure.

Figure 1



Figure 2



Zertifikat

Certificate



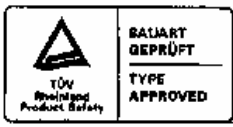
Zertifikat Nr. Certificate No. R 50029786
 Blatt Page 0002

Ihr Zeichen Client Reference P280515/Sporton
 Unser Zeichen Our Reference ZTW1-SSY- 10007289 001
 Ausstellungsdatum Date of Issue 28.07.2003 (day/mo/yr)

Genehmigungsinhaber License Holder
 Kaimei Electronic Corp.
 13th Fl., No. 81
 Sec. 1, Hsin-Tai-Wu Rd.
 Hsichih, Taipei Hsien 221
 Taiwan

Fertigungsstätte Manufacturing Plant
 Kaimei Electronic (HK), Ltd.
 10th Industry Area
 2nd Road, Donghuan, Long Hua
 Shenzhen City, Guangdong
 P.R. China

Prüfzeichen Test Mark Geprüft nach Tested acc. to
 EN 60950:2000



Zertifiziertes Produkt (Geräteidentifikation) Lizenzentgelte - Einheit
 Certified Product (Product Identification) License Fee - Unit

Ventilator (DC Fan)

wie Blatt (as page) 01
 Ergänzung (Addition)
 Bezeichnung : 1) JF0515X12X2YYY (JAMICON) 1
 (Type Designation) 2) JF0615X15X3YYY (JAMICON) 1
 3) JF0615X11X4YYY (JAMICON) 1
 4) JF0615X12X4YYY (JAMICON) 1
 X1 steht für (stands for): S, B oder (or) C 1
 X2 steht für (stands for): H, M, L oder (or) E 1
 X3 steht für (stands for): H, M, L, E oder (or) V 1
 X4 steht für (stands for): U oder (or) S 1
 Y steht für : 0-9, A-Z oder (or) 1
 (stands for) freibleibend (blank) 1
 Nennspannung : 1), 4) 24V
 (Rated Voltage) 2) 5V
 3) 12V
 Nennstrom : siehe Aufbau-Übersicht
 (Rated Current) (see constructional dataform)



9

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
 Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
 This certificate is based on our Testing and Certification Regulation. The product
 fulfills above-mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln
 Tel: (+49/221)8 06 - 13 71 Fax: (+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. A. Klinker



Constructional dataform for electrical appliance

Type designation:

JF0515 X₁1X₂YYY, JF0515 X₁2X₂YYY, JF0615 X₁5X₃YYY, JF0815 X₁1X₄YYY, JF0815 X₁2X₄YYY,
 JF0820 X₁1X₄YYY, JF0820 X₁2X₄YYY, JF0825 X₁1X₄YYY, JF0825 X₁2X₄YYY, JF0825 X₁4X₄YYY,
 JF0815 X₁1X₇YYY, JF0815 X₁2X₇YYY, JF0825 X₁1X₇YYY, JF0825 X₁2X₇YYY, JF0825 X₁4X₇YYY,
 JF0925 X₁1X₄YYY, JF0925 X₁2X₄YYY, JF0925 X₁4X₄YYY, JF1225 X₁1X₄YYY, JF1225 X₁2X₄YYY,
 JF1225 X₁4X₄YYY

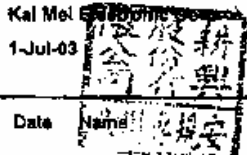
X₁ may be S or B or C, X₂ may be H or M or L or E, X₃ may be H or M or L or E or V, X₄ may be U or S,
 X₅ may be T or U or S, X₆ may be U or S or H or M or L or E, X₇ may be U or S or H or M or L,
 X₈ may be S or H or M or L, X₉ may be S or H or M or L or E, all "Y" may be 0-9 or A-Z or blank.

| Models | Rating | Models | Rating | Models | Rating |
|-----------|--------------|-----------|--------------|-----------|--------------|
| JF0515S1H | 12Vdc, 0.24A | JF0515C2H | 24Vdc, 0.13A | JF0615S1S | 12Vdc, 0.15A |
| JF0515S1M | 12Vdc, 0.22A | JF0515C2M | 24Vdc, 0.12A | JF0615B1U | 12Vdc, 0.16A |
| JF0515S1L | 12Vdc, 0.16A | JF0515C2L | 24Vdc, 0.11A | JF0615B1S | 12Vdc, 0.15A |
| JF0515S1E | 12Vdc, 0.12A | JF0515C2E | 24Vdc, 0.08A | JF0615C1U | 12Vdc, 0.16A |
| JF0515B1H | 12Vdc, 0.24A | JF0615S5H | 5Vdc, 0.26A | JF0615C1S | 12Vdc, 0.15A |
| JF0515B1M | 12Vdc, 0.22A | JF0615S5M | 5Vdc, 0.21A | JF0615S2U | 24Vdc, 0.12A |
| JF0515B1L | 12Vdc, 0.16A | JF0615S5L | 5Vdc, 0.17A | JF0615S2S | 24Vdc, 0.11A |
| JF0515B1E | 12Vdc, 0.12A | JF0615S5E | 5Vdc, 0.14A | JF0615B2U | 24Vdc, 0.12A |
| JF0515C1H | 12Vdc, 0.24A | JF0615S5V | 5Vdc, 0.11A | JF0615B2S | 24Vdc, 0.11A |
| JF0515C1M | 12Vdc, 0.22A | JF0615B5H | 5Vdc, 0.26A | JF0615C2U | 24Vdc, 0.12A |
| JF0515C1L | 12Vdc, 0.16A | JF0615B5M | 5Vdc, 0.21A | JF0615C2S | 24Vdc, 0.11A |
| JF0515C1E | 12Vdc, 0.12A | JF0615B5L | 5Vdc, 0.17A | JF0620S1U | 12Vdc, 0.20A |
| JF0515S2H | 24Vdc, 0.13A | JF0615B5E | 5Vdc, 0.14A | JF0620S1S | 12Vdc, 0.18A |
| JF0515S2M | 24Vdc, 0.12A | JF0615B5V | 5Vdc, 0.11A | JF0620B1U | 12Vdc, 0.20A |
| JF0515S2L | 24Vdc, 0.11A | JF0615C5H | 5Vdc, 0.26A | JF0620B1S | 12Vdc, 0.18A |
| JF0515S2E | 24Vdc, 0.08A | JF0615C5M | 5Vdc, 0.21A | JF0620C1U | 12Vdc, 0.20A |
| JF0515B2H | 24Vdc, 0.13A | JF0615C5L | 5Vdc, 0.17A | JF0620C1S | 12Vdc, 0.18A |
| JF0515B2M | 24Vdc, 0.12A | JF0615C5E | 5Vdc, 0.14A | JF0620S2U | 24Vdc, 0.13A |
| JF0515B2L | 24Vdc, 0.11A | JF0615C5V | 5Vdc, 0.11A | JF0620S2S | 24Vdc, 0.11A |
| JF0515B2E | 24Vdc, 0.08A | JF0615S1U | 12Vdc, 0.16A | JF0620B2U | 24Vdc, 0.13A |

TÜV Rheinland Berlin Brandenburg Group

JUL 28 2003
 Date Name *[Signature]*
 Signature

Kal Mei
 1-Jul-03



Henk [Signature]
 Stamp & Signature of licenseholder



SPORTON LAB.

Certificate No: EC2D2008-01

CERTIFICATE

● **EQUIPMENT: DC FAN**
MODEL NO. : JFX1X2X3X4X5X6X7X8, KFX1X2X3X4X5X6X7X8
APPLICANT : Kaimei Electronic Corp.
 13th Fl., No. 81, Sec. 1, Hsin Tai Wu Road, Hsichih,
 Taipei, Taiwan, R.O.C.



I HEREBY CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN ACCORDANCE WITH THE PROCEDURES GIVEN IN **EUROPEAN COUNCIL DIRECTIVE 89/336/EEC**. THE EQUIPMENT WAS **PASSED** THE TEST PERFORMED ACCORDING TO **EUROPEAN STANDARD EN 55022:1998/A1:2000/A2:2003 Class B, EN 61000-3-2:2000/A1:2001, EN 61000-3-3:1995/A1:2001 and EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000, IEC 61000-4-3:2002, IEC 61000-4-4:1995/A2:2001, IEC 61000-4-5:1995/A1:2000, IEC 61000-4-6:1996/A1:2000, IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:1994/A1:2000)**. THE TEST WAS CARRIED OUT ON Jan. 11, 2007 AT **SPORTON INTERNATIONAL INC. LAB.**

Castries Huang
 Castries Huang
 Supervisor

SPORTON INTERNATIONAL INC. 6F, No.106, Sec.1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien , Taiwan, R.O.C.

ACCORDING TO EUROPEAN STANDARD
EN 55022:1998/A1:2000/A2:2003 Class B,
EN 61000-3-2:2000/A1:2001, EN 61000-3-3:1995/A1:2001 and
EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000,
IEC 61000-4-3:2002, IEC 61000-4-4:1995/A2:2001,
IEC 61000-4-5:1995/A1:2000, IEC 61000-4-6:1996/A1:2000,
IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:1994/A1:2000).

More detail information of Model NO.:

X1 means for Width x Width = 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 12, 15
Where 02=25x25, 03=30x30, 04=40x40, 05=50x50, 06=60x60, 07=70x70, 08=80x80,
09=92x92, 0A=20x20, 0B=35x35, 0C=45x45, 12=120x120, 17= ϕ 172 or 172x150 mm

X2 means for thickness = 06, 07, 09, 10, 12, 15, 20, 25 or 25.4, 32, 38, 51

Where 06= 6, 07=7, 09=9 or 10, 10= 10, 12=12, 15=15, 20=20, 25= 25 or 25.4, 32=32,
38=38, 51=51 mm

Where the cross list for X1&X2 as the following:

0A10, 0206, 0207, 0210, 0306, 0307, 0310, 0B06, 0B07, 0B10, 0406, 0407, 0409, 0410,
0412, 0415, 0420, 0425, 0C07, 0C10, 0509, 0510, 0512, 0515, 0520, 0525, 0610, 0615,
0620, 0625, 0638, 0710, 0715, 0720, 0725, 0815, 0820, 0825, 0832, 0838, 0925, 0932, 0938,
1225, 1232, 1238, 1738, 1751

X3 means for bearing type = S, B, H, C

Where S=Sleeve, B= 2 Ball, C= 1Ball or 1Ball+Sleeve

X4 means for rated voltage =1 (12V), 2 (24V), 3 (32V), 4(48V), 5(5V), A(3V), B (25.5V),
C(42V), D(18V), E(15V)

X5 means for rotation speed =T, U, S, H, M, L, E, V or 7, 6, 5, 4, 3, 2, 1, 0.

Where T or 7 means speed higher than U or 6 speed code,

U or 6 means speed higher than S or 5 speed code,

S or 5 means speed higher than H or 4 speed code,

H or 4 means Standard-high speed code,

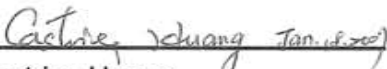
M or 3 means Middle speed code,,

L or 2 means Low speed code,

E or 1 means speed lower than L speed code,

V or 0 means speed lower than E speed code.

X6, X7, X8 means the internal code to distinguish the wiring, frame and blade type or the
dimension of the screw hole and or the color of the above material and also for special
printing characters on the label requested by the client.


Castries Huang

Supervisor