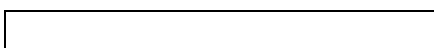


1. MECHANICAL:

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

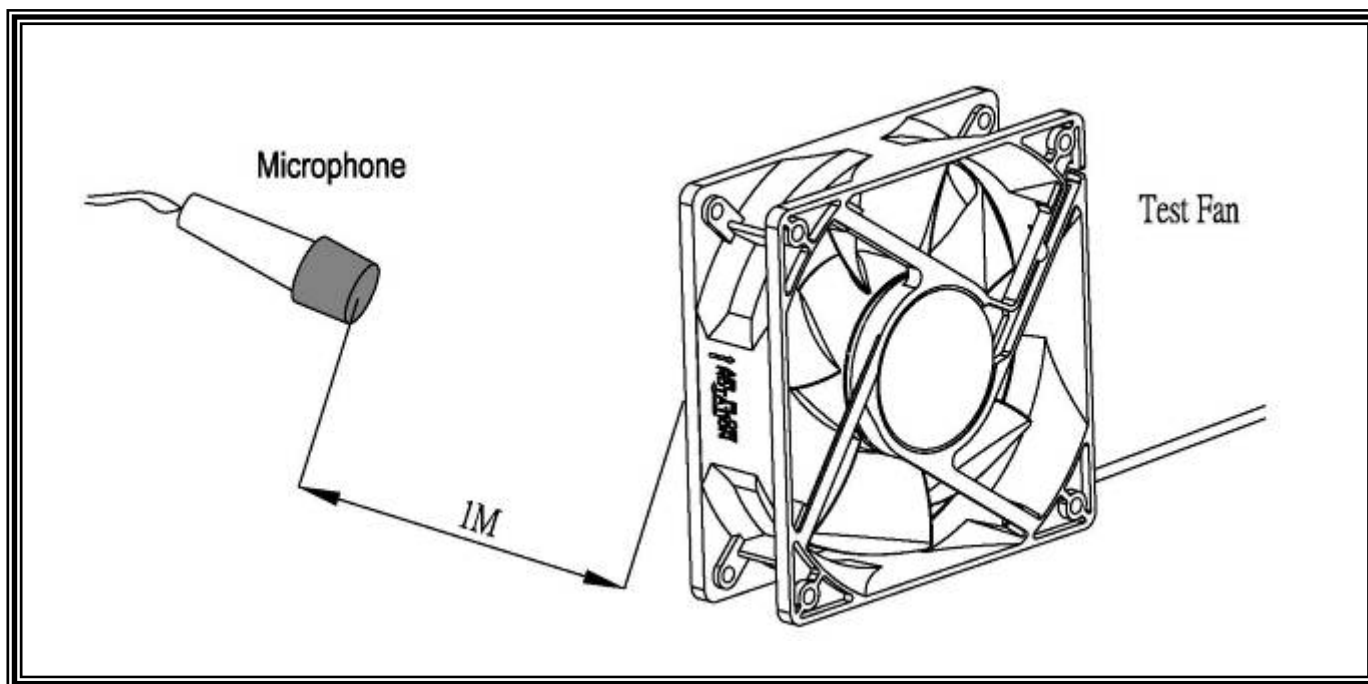
2.ELECTRICAL:

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



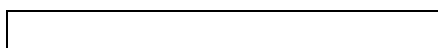
3.CHARACTERISTICS:

| | | |
|------|----------------------------|--|
| 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 |

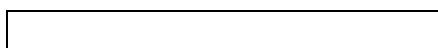


5.DATA-SHEET:

| NO. | ITEM | SPECIFICATION | UNIT | CONDITION |
|--------|----------------------|---|----------------------|-------------------------------------|
| 5-1-01 | Dimension | 120*120*38 | mm | ----- |
| 5-1-02 | Bearing | Dual Ball | ----- | ----- |
| 5-1-03 | Rated Voltage | 12 | VDC | ----- |
| 5-1-04 | Operating Voltage | 6.0~13.8 | VDC | ----- |
| 5-1-05 | Start Voltage | 6.0 | VDC | On/off test |
| 5-1-06 | Speed | 3200 | R.P.M | ±10%, At rated Voltage |
| 5-1-07 | Input Current | 0.70 | Amp | At rated Voltage |
| 5-1-08 | Input Power | 8.40 | Watt | At rated Voltage |
| 5-1-09 | Nominal Current | 0.80 | Amp | At rated Voltage |
| 5-1-10 | Air Flow | 135.8 | CFM | At 0 static Pressure of rated speed |
| 5-1-11 | Static Pressure | 0.356 | inchH ₂ O | At 0 air flow of rated speed |
| 5-1-12 | Noise | 47.9 | dBA | At rated speed |
| 5-1-13 | Life Expectancy(L10) | 75,000 | Hours | At 40°C |
| 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 | NO | ----- | ----- |
| 5-1-18 | Alarm Signal Output | NO | ----- | ----- |
| 5-1-19 | Rotation direction | From the label side | ----- | Clockwise |
| 5-1-20 | Weight | 265 | Gram | Per each piece |
| 5-1-21 | Safety Certificate | CE | ----- | ----- |

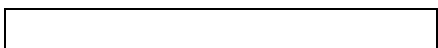
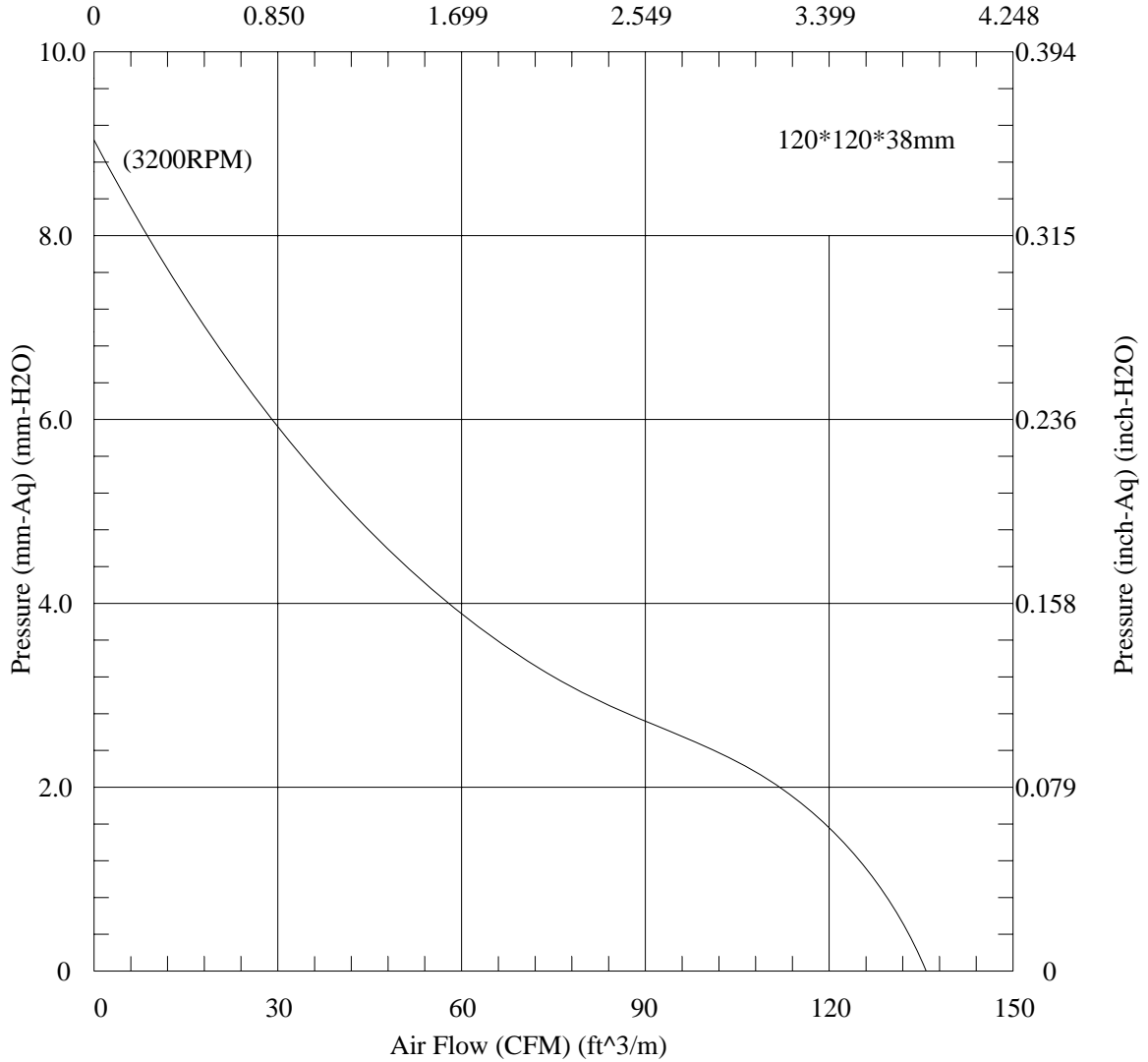
5-2. LEAD WIRE:

| NO. | ITEM | SPECIFICATION | | | |
|--------|---------------------|---|-----|--|--|
| 5-2-01 | AWG NO. & Authorize | 24 AWG, UL1007(The end of wire with tin as drawing) | | | |
| 5-2-02 | Color | — | + | | |
| | | Black | Red | | |
| 5-2-03 | Line Length | 240±10mm | | | |
| 5-2-04 | Connector | Notes as: Not available. | | | |
| 5-2-05 | Tube | NO | | | |

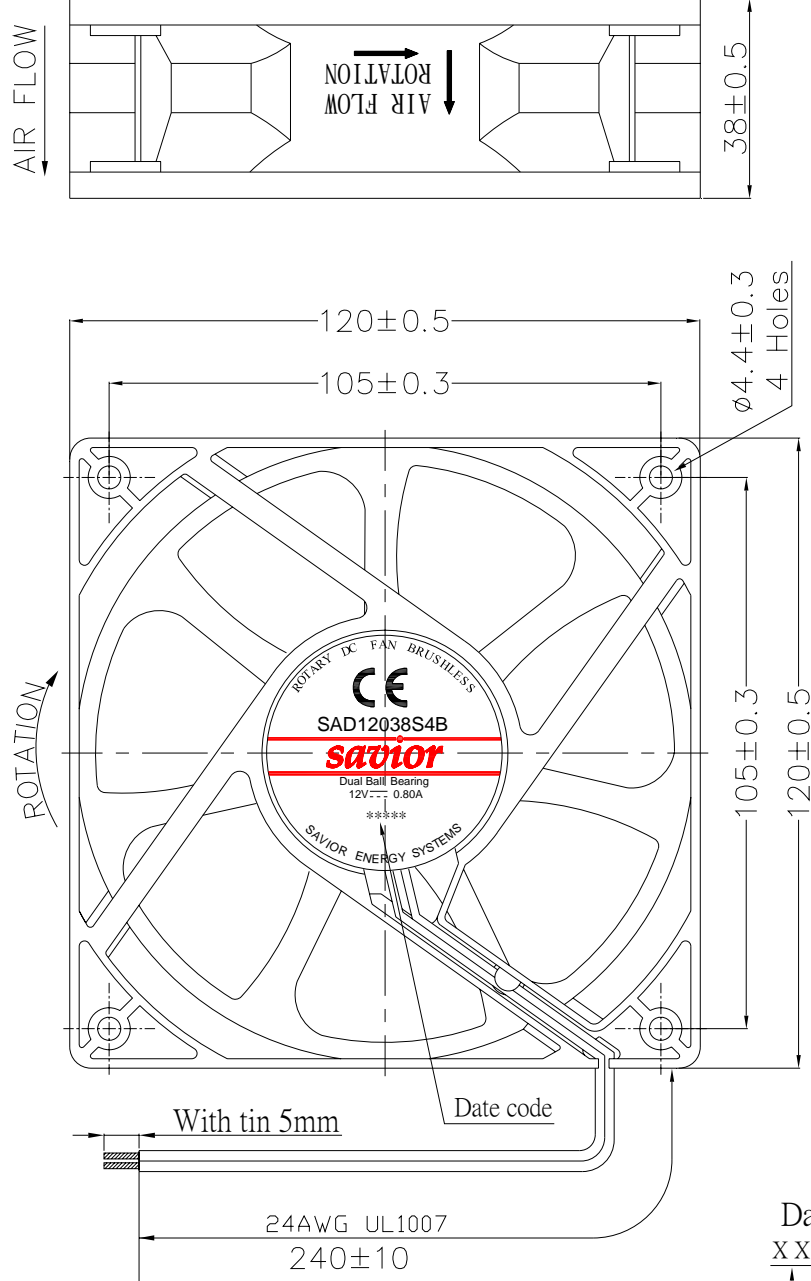


FAN PERFORMANCE CURVES

Air Flow (CMM) (M³/m)



A B C D E F G H

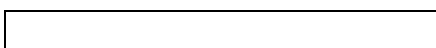
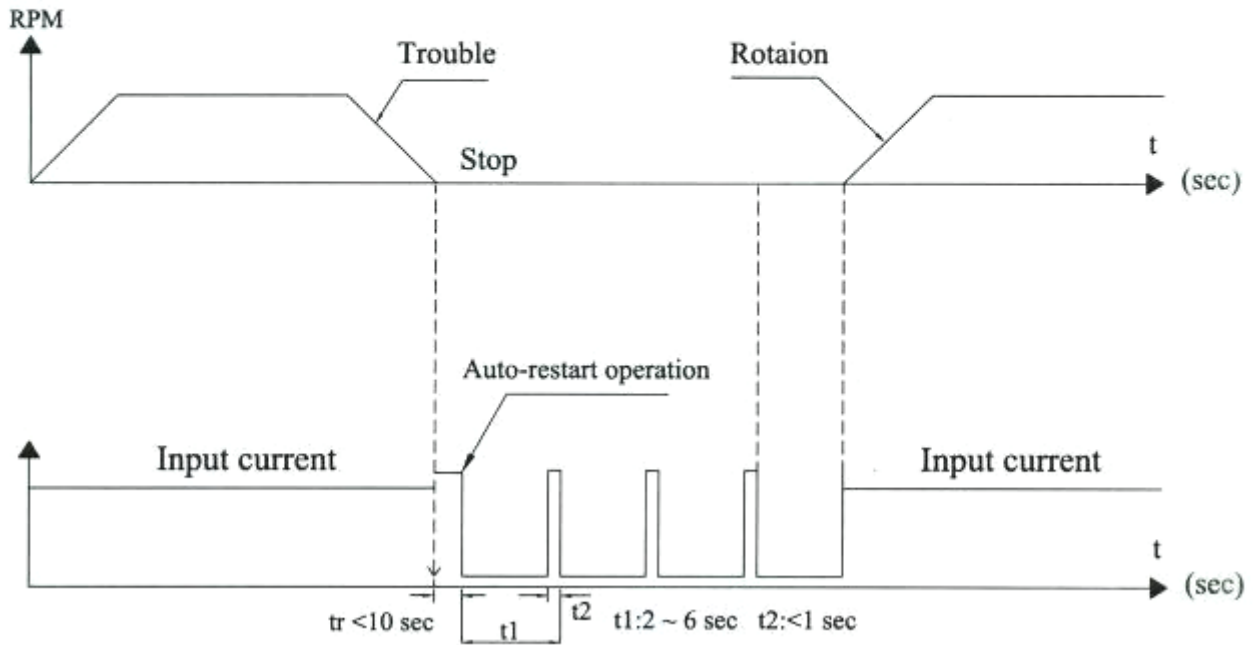


Date code
 XX X XX
 ↑ ↑ ↑
 Date
 Month
 Year

| | | |
|-------|-------------------|---------------|
| SCALE | PRODUCT | UNIT |
| | APPEARANCE OF FAN | mm |
| REV. | DESCRIPTION | DESIGN DATE |
| 0 | | 王婷 2011/07/25 |

Auto-restart

Fan motor speed



CE

SPORTON LAB.

Certificate No.:

EC2D2008-05

CERTIFICATE

- **EQUIPMENT:** Fan with DC motor
MODEL NO. : SADx1x2x3x4x5, SADx1x2x3x4x5-1
APPLICANT : Savior Kontrol Otomasyon Sistemleri Elektronik
Sanayi ve Ticaret A.S.
Des Sanayi Sitesi. 104. Sok. A07 Blok, No:2
Y. Dudullu, Istanbul - TURKEY



I HEREBY

CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN ACCORDANCE WITH THE PROCEDURES GIVEN IN EUROPEAN COUNCIL DIRECTIVE 2004/108/EC. THE EQUIPMENT WAS PASSED THE TEST PERFORMED ACCORDING TO European Standard EN 55022:2006 Class B, EN 61000-3-2:2006, EN 61000-3-3:1995/A1:2001/A2:2005 and EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000, IEC 61000-4-3:2006, IEC 61000-4-4:2004, IEC 61000-4-5:2005, IEC 61000-4-6:2006, IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:2004). THE TEST WAS CARRIED OUT ON May 28, 2008 AT SPORTON INTERNATIONAL INC. LAB.

A handwritten signature in blue ink, appearing to read "Castries Huang", is written over a horizontal line.

Castries Huang
Supervisor

Certificate No: EC2D2008-05

ACCORDING TO European Standard EN 55022:2006 Class B,
EN 61000-3-2:2006, EN 61000-3-3:1995/A1:2001/A2:2005 and
EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000,
IEC 61000-4-3:2006, IEC 61000-4-4:2004, IEC 61000-4-5:2005,
IEC 61000-4-6:2006, IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:2004).

More detail information of Model No.:

SADx1x2x3x4x5 or SADx1x2x3x4x5-1

x1 (Diameter / Width (mm))

025 = 25x25mm
030 = 30x30mm
040 = 40x40mm
050 = 50x50mm
060 = 60x60mm
070 = 70x70mm
080 = 80x80mm
092 = 92x92mm
020 = 20x20mm
035 = 35x35mm
045 = 45x45 mm
120 = 120x120mm
172 = Ø172 or 172x150mm

x2 (Thicknes (mm))

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

x3 (Speed)

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-higher 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

x4 (Voltage)

3 = 5V
4 = 12V
5 = 24V
6 = 48V

x5 (Bearing)

B = Dual Ball
S = Sleeve
C = Ball + Sleeve
H = HTLS