1. MECHANICAL:

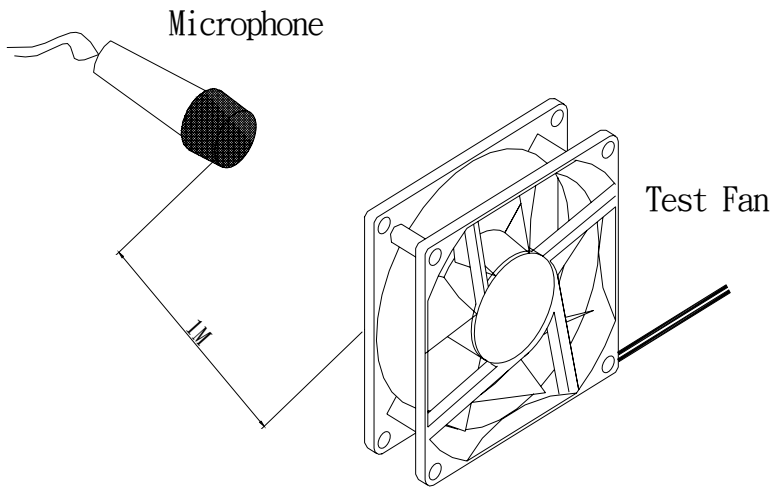
1-01	**Dimension**	**Dimension of fan shall be shown in the outline styling drawing attached.**
1-02	**Motor**	**Four-pole motor.**
1-03	**Frame**	**Plastic material UL 94V-0 (P.B.T).**
1-04	**Impeller**	**Plastic material UL 94V-0 (P.B.T).**
1-05	**Free drop shock**	**In minute package condition, the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

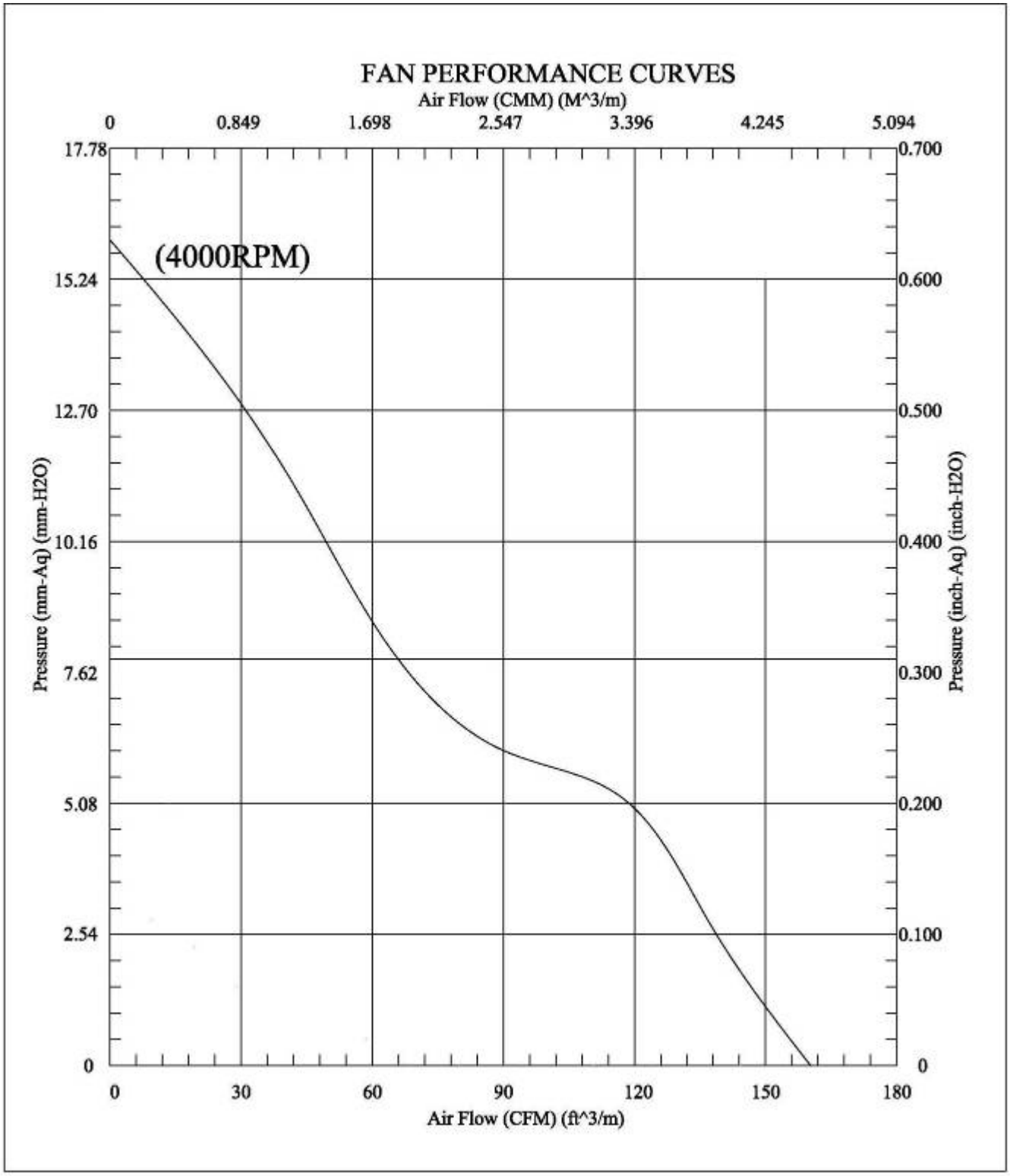
4-01	**Operating temperature**	**-10℃ to 70℃ (ordinary humidity)**
4-02	**Storage Temperature**	**-40℃ to 70℃ (ordinary humidity)**
4-03	**Humidity**	**After 96 hrs, 95% RH 40±2℃per MIL-STD-202F method 103B, Humidity test , The measured data of insulation resistance & dielectric strength should meet 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**

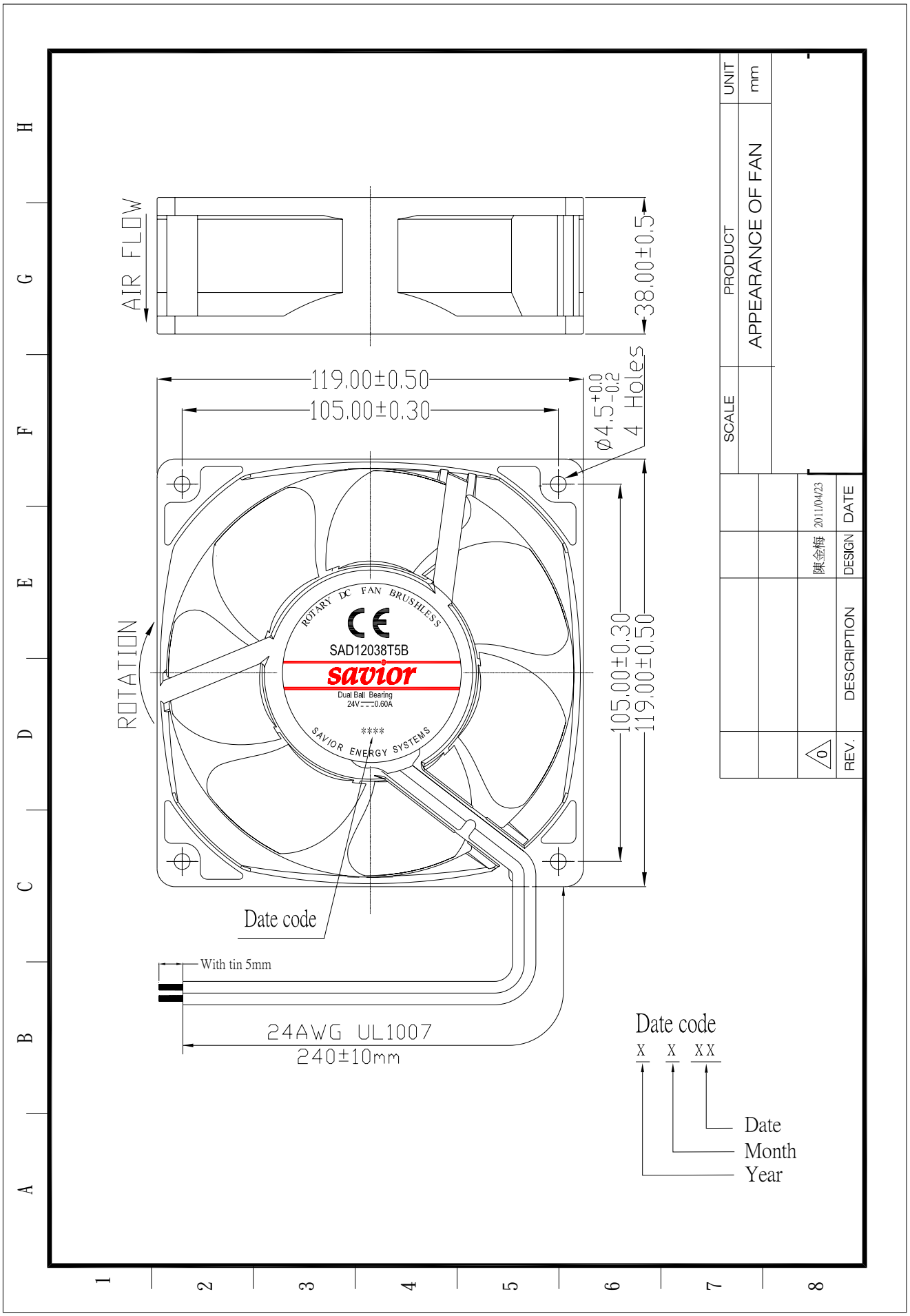
5.DATA-SHEET:

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	12.0~13.8	VDC	----------
5-1-05	Start Voltage	12.0	VDC	On/off test
5-1-06	Speed	4000	R.P.M	±10%, At rated Voltage
5-1-07	Input Current	0.51	Amp	At rated Voltage
5-1-08	Input Power	12.24	Watt	At rated Voltage
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	inchH_2O	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℃
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) (M^3/m)
0
0.849
1.698
2.547
3.396
4.245
5.094
(4000RPM)
17.78
15.24
12.70
10.16
7.62
5.08
2.54
0
Pressure (mm-Aq) (mm-H2O)
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0
Pressure (inch-Aq) (inch-H2O)
0
30
60
90
120
150
180
Air Flow (CFM) (ft^3/m)


AIR FLOW
38.00±0.5
119.00±0.50
105.00±0.30
Ø4.5 +0.0 -0.2
4 Holes
ROTATION
ROTARY DC FAN BRUSHLESS
SAD12038T5B
savior
Dual Ball Bearing
24V 0.60A
SAVIOR ENERGY SYSTEMS
105.00±0.30
119.00±0.50
Date code
With tin 5mm
24AWG UL1007
240±10mm
UNIT mm
PRODUCT APPEARANCE OF FAN
SCALE
REV. DESCRIPTION DESIGN DATE
0 陳金梅 2011/04/23
Date code
X X XX
Date
Month
Year

Auto-restart

Fan motor speed