PERFORMANCE SPECIFICATION

PRODUCT TITLE： AC AXIAL FAN

MODEL NO： KLA230AP080CSWS

1、SCOPE：

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE AC AXIAL FLOW FAN·THE FAN MOTOR IS SHADED POLED MOTOR WITH INTERNAL ROTOR

2、ELECTRICAL CHARACTERISTICS：

ALL MEASUREMENTS PERFORMED AT 20~30℃ ROOM TEMPERATURE & 50~70%R.H.UNLESS OTHERWISE SPECIFIED·

ITEM	DESCRIPTION	UNIT	SYMBOL	SPEC.		CONDITION
				50Hz	60Hz	
1	RATED VOLTAGE	VOLTS	V	230 AC		
2	OPERATION VOLTAGE	VOLTS	V	215～245 AC		
3	INPUT CURRENT	AMP	A	0.095 MAX	0.085 MAX	AT RATED VOLTAGE
4	INPUT POWER	WATTS	W	18 MAX	16 MAX	AT RATED VOLTAGE
5	ROTATION SPEED	RPM	RPM	2500±10%	3000±10%	AT RATED VOLTAGE FREE AIR
6	ACOUSTICAL NOISE (AVG)	dB(A)	dB(A)	31±10%	35±10%	DETAILS SEE ATTACHED PAGE.
7	MAX. AIR-FLOW	CFM	Q	21±10%	24±10%	TWO-CHAMBER METHODS DETAILS SEE ATTACHED PAGE.
8	MAX. AIR-PRESSURE	mmH_2O	P	2.20±10%	3.20±10%	TWO-CHAMBER METHODS DETAILS SEE ATTACHED PAGE.
9	INSULATION RESISTANCE	MEG. OHM	MΩ	10MΩ MIN. AT 500V DC		BETWEEN FRAME AND (+) LEADWIRE.
10	DIELECTRIC STRENGTH	MILLI-AMP	mA	WITHSTANDING AT 1400V AC 60Hz FOR 1 MINUTE		BETWEEN FRAME AND (+) LEADWIRE.

ITEM	DESCRIPTION	SPEC.	
11	ROTATION	CW VIEW FROM NAME PLATE SIDE	
12	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS	
13	INSULATION CLASS	CLASS B	
14	LIFE EXPECTANCY	30000 HOURS CONTINUOUS	A
15	SAFETY APPROVAL	TUV, CE, UL	

A LIFE IS DEFINED AS THE TIME MOTOR SPEED DECREASED MORE THAN 30% COMPARED WITH INITIAL VALUE·

3、MECHANICAL

3-1. DIMENSIONS..... SEE PAGE 4

3-2. FRAME..... METAL CONSTRUCTION WITH ALUMINUM DIE-CASTING.

3-3. IMPELLER..... PLASTIC PBT MATERIAL REINFORCED WITH FIBREGLASS.

3-4. COATING..... CED (CATHONIC ELECTRODEPOSITION COATING WITH EPOXY) COATING ON METAL SURFACE BE CAPABLE OF IMPACT RESISTANT AND ABRASION RESISTANT.

3-5. BEARING SYSTEM.....SLEEVE BEARING.

3-6. WEIGHT.....260 GRAMS

3-7. TYPE OF OUTPUT .....LEADWIRE

3-8. LEAD WIRE .....1007 AWG # 22 +POSITIVE RED
.....NEGATIVE BLACK

3-9. PLATIC PARTS .....UNFLAMABLE MATERIAL, MEET UL 94V-0
.....RATING

4、ENVIRONMENTAL：

4-1. OPERATING TEMPERATURE ---------- -10 TO +70℃

4-2. STORAGE TEMPERATURE ---------- -30 TO +75℃

4-3. OPERATING HUMIDITY---------- RH 20% ~ 85%

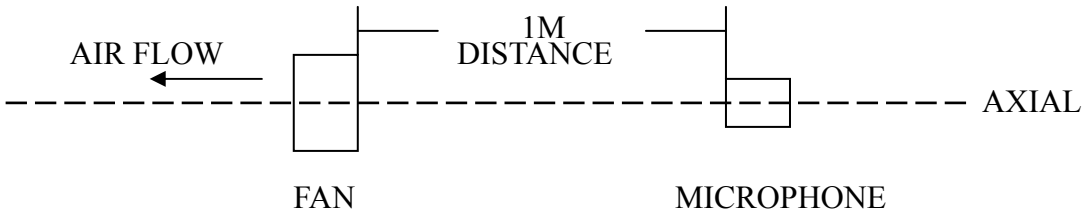
5、PROTECTION：

5-1. IMPEDANCE PROTECTION

IMPEDANCE OF MOTOR COIL WINDING PROTECTS MOTOR FROM FLAMING IN THE CONDITION OF 72 Hrs LOCKED ROTOR AT RATED VOLTAGE

6、ACOUSTICAL NOISE：

6-1. MEASUREMENT SET-UP



6-2. MEASUREMENT PERFORMED IN ANECHOIC TEST CHAMBER UNDER FREE AIR CONDITION ·

6-3. CHAMBER BACKGROUND NOISE 17dB MAX ·

6-4. READING TAKEN FROM SPECTRUN ANALYZER ·

6-5. NOISE DISTRIBUTION CURVE SEE ATTACHED PAGE ·

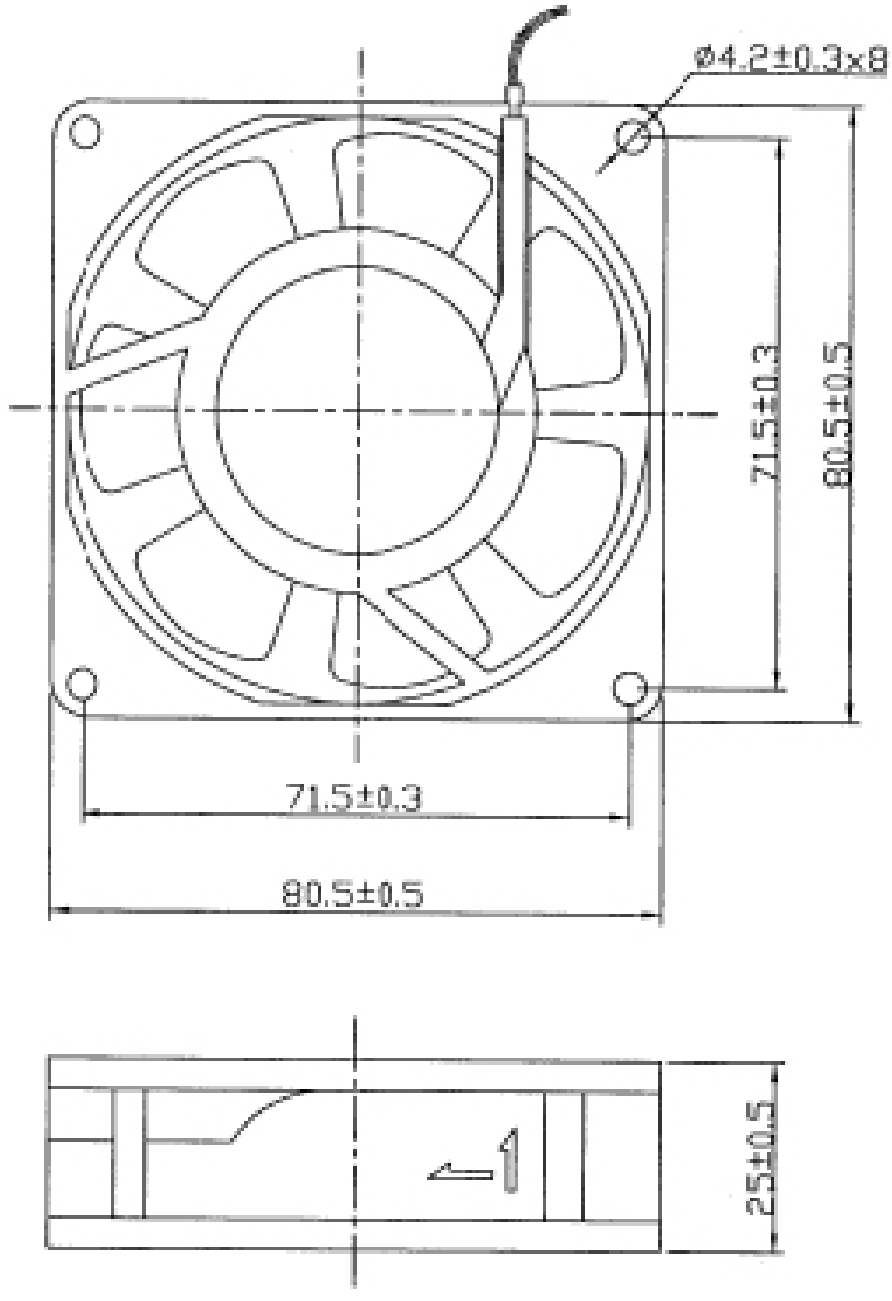
7、STATICS PRESSURE VS AIR FLOW CURVE：

MEASURED PER TWO CHAMBER METHOD ·

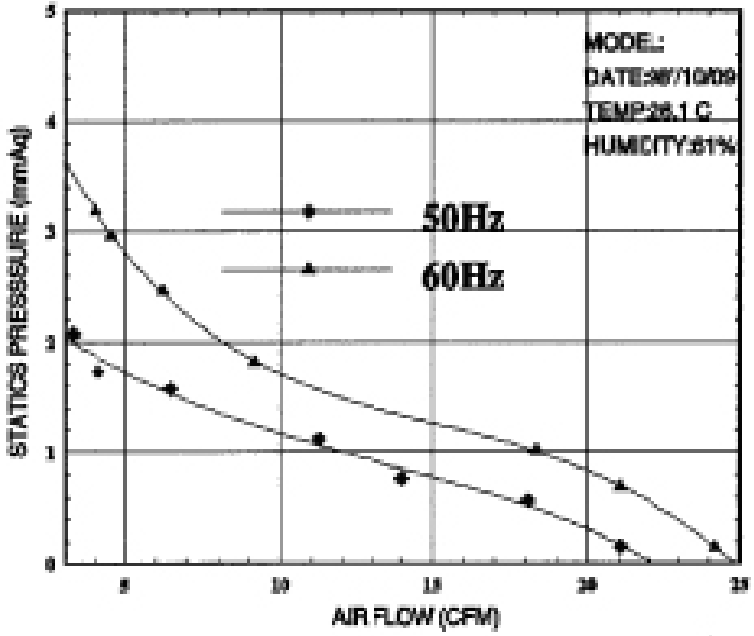
DATA-CURVE SEE ATTACHED PAGE

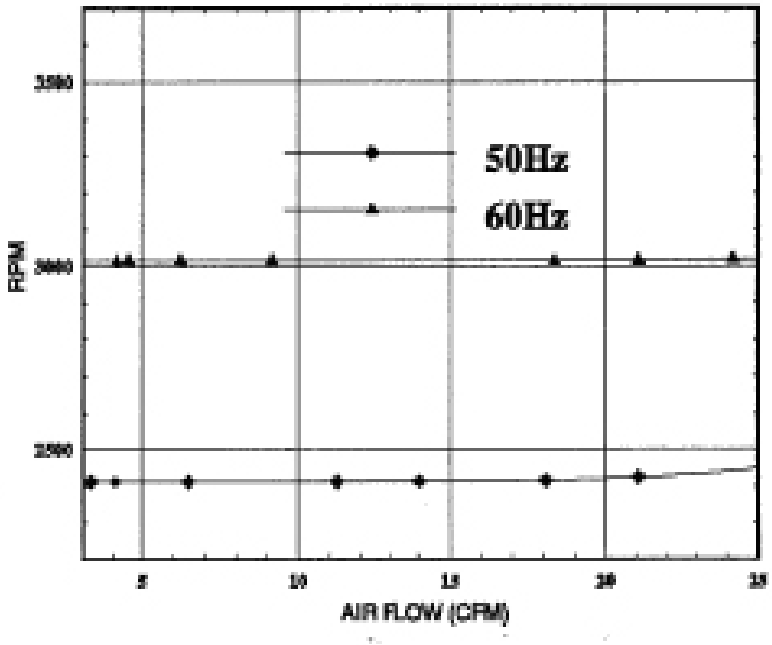
DIMENSIONS DRAWING :

UNIT:mm



FAN PERFORMANCE CURVES





FAN PERFORMANCE DATA SHEET

Customer:	Test No: 8P230H
Fan Model:	System Setup:outlet Chamber
Testing Method: Constant Voltage	Testing Date:10-09-1998
Testing Voltage: AC230V,60/50 HZ	Barometric Density (kg/m3):1.14
Barometric Pressure (cmHg):	Testing Engineer:Chen Jr Wei
Dry Bulb Temperature (C):26.1	Remark:
Relative Humidity (%)61	
File Name: 8P-230H	

No	CFM	mmAq	inAq	A	RPM	Watt	
1	2..19	0.14	0.005	0.095	2518	18	
2	19.03	0.69	0.027	0.095	2519	18	
3	17.35	0.81	0.031	0.095	2522	18	
4	7.16	1.18	0.046	0.095	2522	18	
5	6.2	1.66	0.065	0.095	2517	18	
6	3.98	1.77	0.069	0.095	2514	18	
7	3.21	2.12	0.083	0.095	2514	18	
1	24.42	0.14	0.005	0.085	3018	16	
2	22.83	0.69	0.027	0.085	3015	16	
3	18.82	1.18	0.046	0.085	3014	16	
4	9.59	1.66	0.065	0.085	3015	16	
5	6.84	2.13	0.084	0.085	3015	16	
6	4.76	2.95	0.116	0.085	3016	16	
7	4.13	3.19	0.123	0.085	3016	16	

NOISE TEST REPORT

: AC 8025

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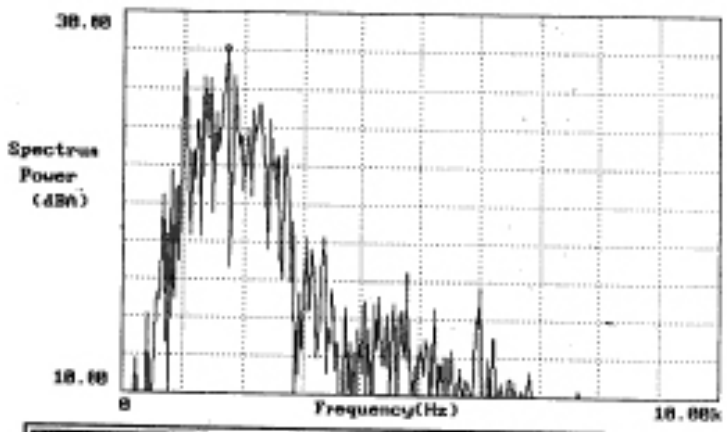
: _____ PCS

☐ Evaluation

☐ I P Q C

☐ Q A



OV.AL	————	35.4099dB	MAXIM	1.700kHz	20.852374B
LEFT	5.000kHz	12.5070dB	MINIM	0.0000Hz	-289.418dB

(1) Background Noise : 17dBA

(2) FFT Analyzer

(3) Sound Pressure Level Meter

No RR01.04A

Reporter:

Date :1998/08/06