

三協工業有限公司

COMMONWEALTH INDUSTRIAL CORPORATION SPECIFICATION

CLASSIFICATION

MODEL: FP-108ES-B 230V S1B

A.SCOPE:	
THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL OF THE AXIAL FLOW FAN. THE FAN MOTOR IS SHADE POLE MOTOR	
B. ELECTRICAL	
1.) RATED VOLTAGE:	220/240V
2.) ROTATION	CCW <FROM BLADE SIDE>
3.) AIR FLOW AT ZERO STATIC PRESSURE	13.0 M3/MIN AT RATED VOLTAGE 50 HZ 10.8 M3/MIN. AT RATED VOLTAGE 60HZ
4.) STATIC PRESSURE	26mm-H2O AT 50HZ 20mm -H2O AT 60HZ
5.) INPUT POWER	IN FREE AIR RATED VOLT 53 WATT AT 50HZ 43 WATT AT 60HZ
6.) INPUT CURRENT	IN FREE AIR, RATED VOLT 0.22A AT 50HZ 0.19A AT 60HZ
7.) INSULATION RESISTANCE	10 MEG OHM MIN. AT 500V DC (BETWEEN FRAME AND TERMINAL)
8.) DIELECTRIC STRENGTH	1 SEC. 2000 VAC AT 50/60HZ
9.) LIFE EXPECTANCY	40,000 HOURS AT 25 DEGREE C 65%RH
10.) ACOUSTIAL NOISE	60 dB(A)-CURVE MAX.
11.) SPEED	26500 RPM (+/- 10% AT 50 HZ 3200 (+/- 10%) AT 60HZ
12.) VIBERATION TEST	AMPLITUDE 1.5M 10-55 HZ 3 DIRECTION X.Y.Z. 1HR
13.) SHOCK TEST	ACCELERATION OF GRAVITY 30G AT 6M Y.Y.G.1HR
14.) BEARING TYPE	SLEEVE BEARING
15.) AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS
16.) INSULATION RANK	UL: CLASS B

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

C) MECHANICAL

- C-1) DIMENSIONS-----SEE ATTACHED
- C-2) FRAME-----DIE CAST ALUMINUM PAINTED BLACK
- C-3) FAN BLADE-----PLASTIC PBT UL: 94V-0 RATING +FIBER GLASS
- C-4) BEARING SYSETM-----BALL BAIRNG
- C-5) WIRE LEADS -----UL 1015 20 AWG

D) PROTECTION:

- D-1) THERMALLY PROTECTION

E) ENVIERONMENTAL:

- E-1) OPERATING TEMPERATURE ----- 0 TO + 70 DEGREE C
- E-2) STORAGE TEMPERATURE----- -20 TO + 75 DEGREE C
- E-3) DROP TEST

IN MINIMUM PACKAGING CONDITION FANS WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30 CM DISTANCE HEIGHT ONTO 10MM THICKNESS OF WOODEN BOARD

- E-4) VIBRATION TEST

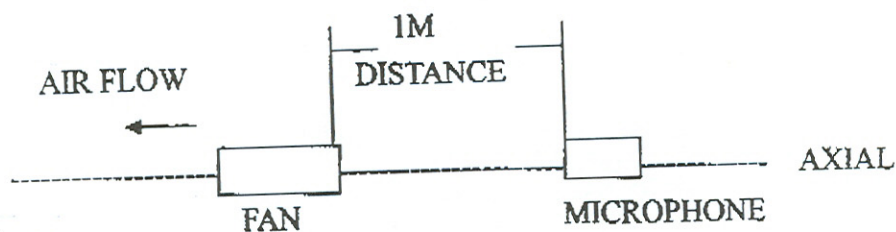
FREQUENCY: 10-50 HZ AMPLTUDE
X. Y. Z. DIRECTION EACH FOR 1 HR

- E-5) SHOCK TEST

APPLY PEAK ACCELERATION 50g AND KEEP DURATION OF THE PULSE FOR 11

F) ACOUSTICAL NOISE:

- F-1) MEASUREMENT STE-UP



- F-2) MEASUREMENT PERFORMED IN ANECHOIC EST CHAMBER
UNDER FREE AIR CONDITON

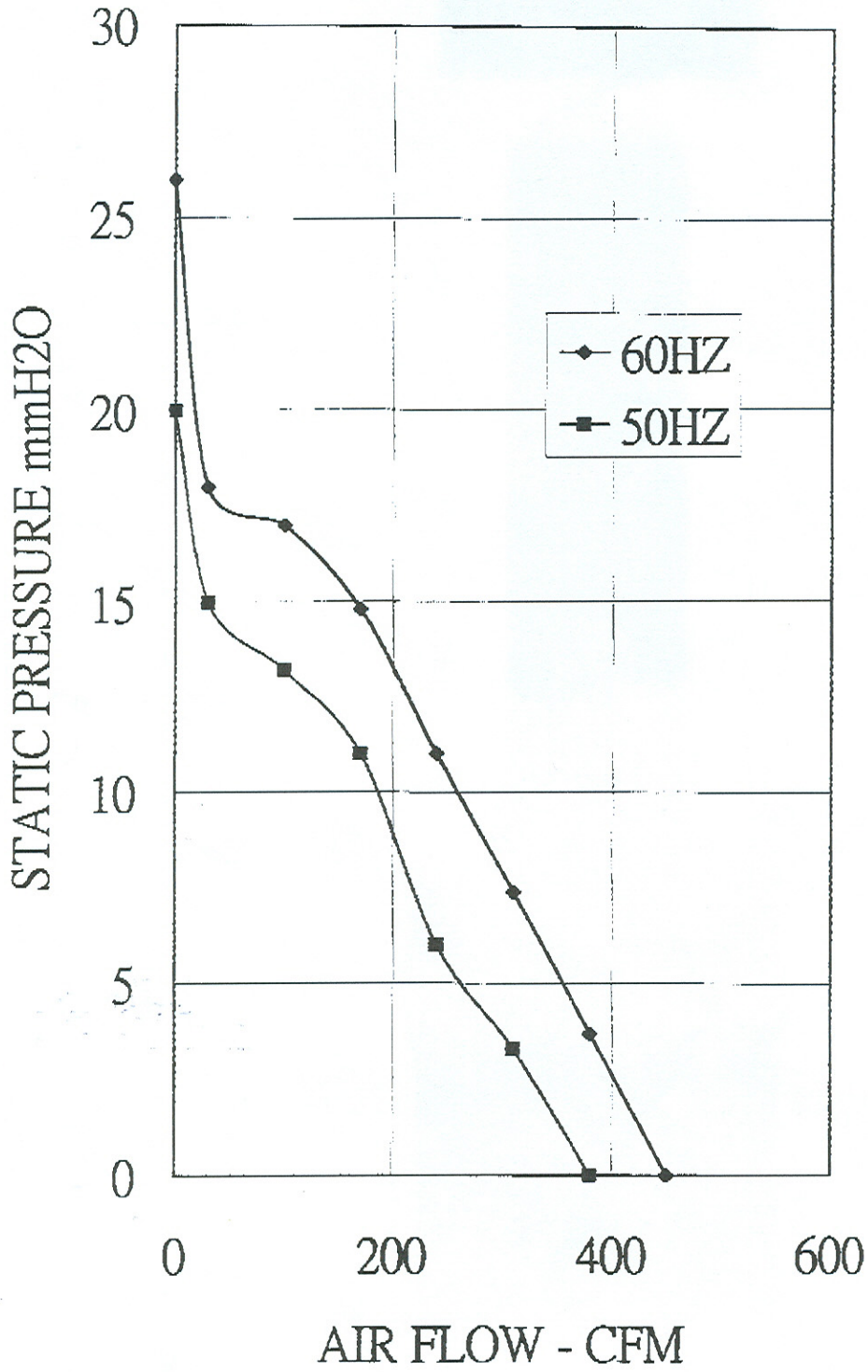
- F-3) CHAMBER BACK GROUND NOISE 17 dB MAX.

- F-4) READING TAKEN FROM SPECTRUN ANALYZER

G) STATICS PRESSURE VS AIR FLOW CURVE:

AS ATTACHED PAGE:

PERFORMANCE



MODEL: FP-108ES-B

Unit:mm(inch)

