

三協工業有限公司

COMMONWEALTH INDUSTRIAL CORPORATION

SPECIFICATIONS

MODEL: FP-108D/DC 24V S1B

SIZE: 80 x 80 x 25.4 mm

A) SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH TWO PHASES AND FOUR POLES

B) ELECTRICAL CHARACTERISTICS

ALL MEASUREMENTS PERFORMED

AT 20-30 DEGREE C ROOM TEMPERATURE & 50-70% R.H.

UNLESS OTHERWISE SPECIFIED

ITEM	DESCRIPTION	REMARK
1	RATED VOLTAGE	24V DC
2	RATED CURRENT	0.13A +/- 10% IN FREE AIR
3	INPUT POWER	3.12 W +/- 10% IN FREE AIR
5	SPEED	3000 RPM +/- 10% IN FREE AIR
6	MAX AIR FLOW	40 CFM +/- 10% AT ZERO STATIC PRESSURE
7	MAX STATIC PRESSURE	0.22 INCH-H ₂ O +/- 10% AT ZERO AIR FLOW
8	INSULATION RESISTANCE	10Meg Ohm Min. at 500V DC BETWEEN FRAME AND TERMINAL
9	DIELECTRIC STRENGTH 10MA MAX AT 700V AC 60 HZ FOR 1 MINUTE	BETWEEN FRAME AND TERMINAL
10	LIFE EXPECTANCE	40,000 HOURS IN 25 C 65% RH.
11	ACOUSTICAL NOISE	33dBA MAX MEASURING DISTANCE 1M
12	VIBRATION TEST	AMPLITUDE 1.5M 10-55HZ 3 DIRECTION X.Y.Z. 1HR
13	SHOCK TEST	ACCELERATION OF GRAVITY 30G. AT 6M X.Y.Z. 1HR
14	BEARING TYPE	BALL BEARING
15	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS
16	INSULATION RANK	UL: CLASS A
17	FAN STICKER	SEE ATTACHED

* 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----- PLASTIC PBT UL: 94V-0 RATING +FIBER GLASS
- C-3) FAN BLADE-----PLASTIC PBT UL: 94V-0 RATING +FIBER GLASS
- C-4) BEARING SYSETM----- BALL BERAING
- C-5) LEAD WIRE----- UL 1007 24AWG
 - + POSTIVE -----RED
 - NEGATIVE----- BLACK

D) PROTECTION:

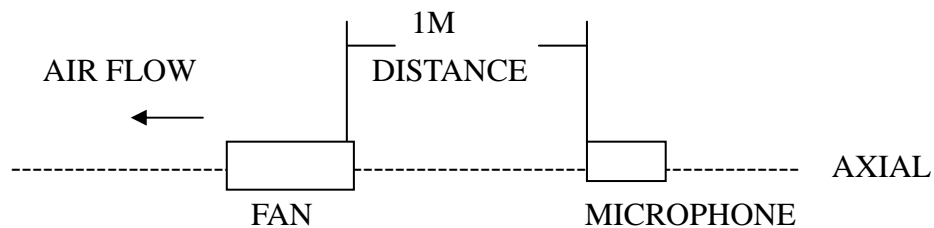
- D-1) POLARITY PROTECTION
 - BUILT-IN ELECTRONIC CIRCUIT PROTECTS THE FAN AGAINST REVERSE CONNNECTION OF POSITIVE AND REVERSE LEADS

E) ENVIERONMENTAL:

- E-1) OPERATING TEMPERATURE ----- -10 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 HIGHT 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 11ms (HALF SINE WAVE)

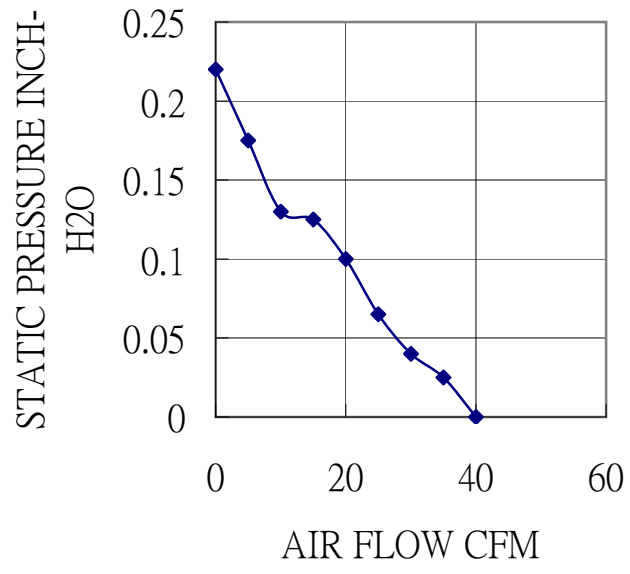
F) ACOUSTICAL NOISE:

- 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



DIMENSIONS:MM

