

三協工業有限公司

COMMONWEALTH INDUSTRIAL CORPORATION

SPECIFICATIONS

MODEL:FP-108M/DC 12V S1B

SIZE: 120 x 120 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	12V DC	
2	RATED CURRENT	0.36 +/- 10%	IN FREE AIR
3	INPUT POWER	4.32W +/- 10%	IN FREE AIR
4	SPEED	3000RPM +/- 10%	IN FREE AIR
5	MAX AIR FLOW	88 CFM	AT ZERO STATIC PRESSURE
6	MAX STATIC PRESSURE	0.20 INCH-H ₂ O	AT ZERO AIR FLOW
7	INSULATION RESISTANCE	10Meg Ohm Min. at 500V DC	BETWEEN FRAME AND TERMINAL
8	DIELECTRIC STRENGTH 10MA MAX AT 700V AC 60 HZ FOR 1 MINUTE		BETWEEN FRAME AND TERMINAL
11	LIFE EXPECTANCE	40000 HOURS	IN 25 C 65% RH.
12	ACOUSTICAL NOISE	45 DBA MAX MEASURING DISTANCE 1M	
15	VIBRATION TEST	AMPLITUDE 1.5M 10-55HZ 3 DIRECTION X.Y.Z. 1HR	
16	SHOCK TEST	ACCELERATION OF GRAVITY 30G AT 6M X.Y.Z. 1HR	
17	BEARING TYPE	BALL BEARING	
18	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS	
19	INSULATION RANK	UL: CLASS A	

* 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 BEARING

C-5) LEAD WIRE-----UL 1007 AWG #22

+ POSTIVE -----RED

- NEGATIVE-----BLUE

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 ----- 0 TO + 60 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

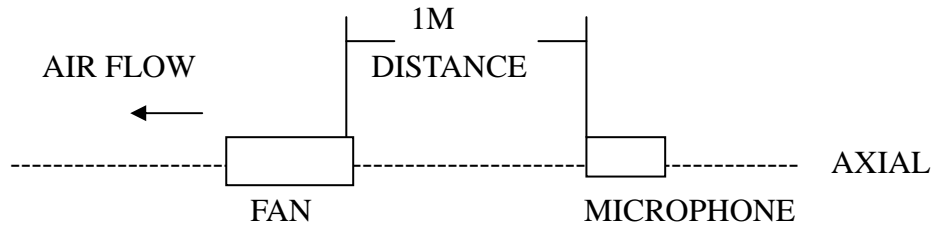
X. Y. Z. DIRECTION EACH FOR 1 HR

E-5) SHOCK TEST

APPLY PEAK ACCELERATION 50g AND KEEP DURATION OF
THE PULSE FOR 11ms (HALF SINE WAVE)

F) ACOUSTICAL NOISE:

F-1) MEASUREMENT STE-UP



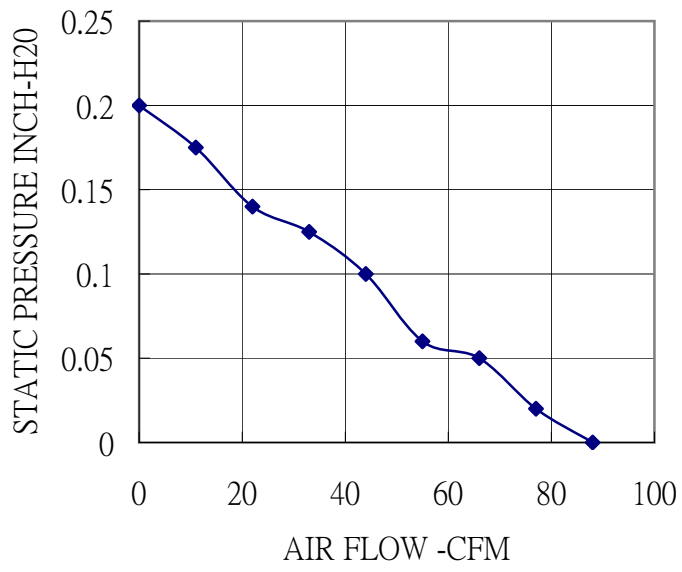
**F-2) MEASUREMENT PERFORMED IN ANECHOIC EST CHAMBER
UNDER FREE AIR CONDITON**

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

