

PERFORMANCE SPECIFICATION

PRODUCT TITLE: <u>DC BLOWER FAN</u>

MODEL NO: DC8030

1? SCOPE:

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

2? ELECTRICAL CHARACTERISTICS:

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

ITEM	DESCRIPTION	UNIT	SYMBOL	SPEC.	CONDITION
1	RATED VOLTAGE	VOLTS	V	12	
2	OPERATION VOLTAGE	VOLTS	V	10.2~ 13.8	
3	INPUT CURRENT	AMP	А	0.20 MAX	AT RATED VOLTAGE
4	INPUT POWER	WATTS	W	2.4 MAX	AT RATED VOLTAGE
5	ROTATION SPEED	RPM	RPM	2600±10%	AT RATED VOLTAGE FREE AIR
6	ACOUSTICAL NOISE (AVG)	dB(A)	dB(A)	35±10%	
7	MAX. AIR-FLOW	CFM	Q	8.94±10%	TWO-CHAMBER METHODS
8	MAX. AIR-PRESSURE	mmH2O	Р	6.33±10%	TWO-CHAMBER METHODS
9	STARTING VOLTAGE	VOLTS	V	7	AT RATED VOLTAGE
10	INSULATION RESISTANCE	MEG. OHM	мо	10MO MIN. AT 500V DC	BETWEEN FRAME AND (+)LEADWIRE.
11	DIELECTRIC STRENGTH	MILLI-AMP	mA	5mA MAX. AT 500V AC 60Hz. FOR 1 MINUTE	BETWEEN FRAME AND (+)LEADWIRE.
	1	1			

ITEM	DESCRIPTION	SPEC.	
12	ROTATION	CW VIEW FROM ROTER	
13	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS	
14	INSULATION RANK	UL: CLASS A	
15	LIFE EXPECTANCY	20000 HOURS CONTINUOUS	?

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

3? MECHANICAL

- 3-1. DIMENSIONS------ SEE SECTION 8
 3-2. FRAME------ PLASTIC PBT UL: 94V-0 RATING + FIBRE GLASS.
 3-3. FAN BLADE------ PLASTIC PBT UL: 94V-0 RATING + FIBRE GLASS.
 3-4. BEARING SYSTEM ------ BALLS BEARING
 3-5. WEIGHT ------ 95 GRAMS
 3-6. LEAD WIRE------ 1007 AWG # 24
 + POSITIVE RED
 - NEGATIVE BLACK

4? ENVIRONMENTAL:

- 4-1. OPERATING TEMPERATURE ------ -10 TO +70?
- 4-2. STORAGE TEMPERATURE ------ -40 TO +75?
- 4-3. DROP TEST

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

4-4. VIBRATION TEST

FREQUENCY: 10- 55Hz AMPLITUDE: 4MM

X, Y, Z DIRECTION EACH FOR 1 HR

4-5. SHOCK TEST

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

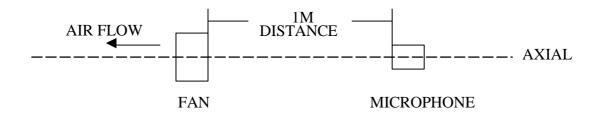
5? PROTECTION:

5-1. POLARITY PROTECTION BUILT-IN ELECTRONIC CIRCUIT PROTECTS THE FAN AGAINST REVERSE CONNECTION OF POSITIVE AND REVERSE LEADS

5-2. IMPEDANCE OF MOTOR COIL WINDING PROTECTS MOTOR FROM FLAMING IN THE CONDITION OF 72 Hrs LOCKED ROTOR AT RATED VOLTAGE

6? ACOUSTICAL NOISE:



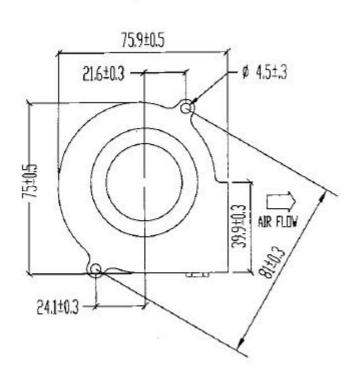


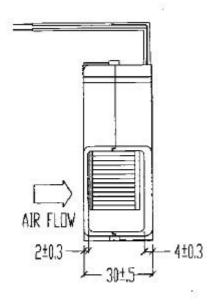
- 6-2. MEASUREMENT PERFORMED IN ANECHOIC TEST CHAMBER UNDER FREE AIR CONDITION.
- 6-3. CHAMBER BACKGROUND NOISE 17dB MAX.
- 6-4. READING TAKEN FROM SPECTRUN ANALYZER.
- 6-5. NOISE DISTRIBUTION CURVE SEE ATTACHED PAGE.
- 7? STATICS PRESSURE VS AIR FLOW CURVE:

MEASURED PER TWO CHAMBER METHOD DATA-CURVE SEE ATTACHED PAGE

7? DIMENSION AND DRAWING

UNIT: mm





8? PERFORMANCE CURVE

