

# PERFORMANCE SPECIFICATION

PRODUCT TITLE:	DC BRUSHLESS FAN

MODEL NO: DC8015

# 1? 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:

# 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	A	0.27 MAX	AT RATED VOLTAGE
4	INPUT POWER	WATTS	W	3.24 MAX	AT RATED VOLTAGE
5	ROTATION SPEED	RPM	RPM	3000 ±10%	AT RATED VOLTAGE FREE AIR
6	ACOUSTICAL NOISE (AVG)	dB(A)	dB(A)	35 ±10?	DETAILS SEE ATTACHED PAGE
7	MAX. AIR-FLOW	CFM	Q	39 ±10%	TWO-CHAMBER METHODS DETAILS SEE ATTACHED PAGE
8	MAX. AIR -PRESSURE	m m H2 O	P	3.2 ±10%	TWO-CHAMBER METHODS DETAILS SEE ATTACHED PAGE
9	STARTING VOLTAGE	VOLTS	V	7	AT RATED VOLTAGE
10	INSULATION RESISTANCE	MEG. OHM	МО	10MO MIN. AT 500V DC	BETWEEN FRAME AND (+) LEAD WIRE.
11	DIELECTRIC STRENGTH	MILLI-AMP	m A	5mA MAX. AT 500V AC 60Hz. FOR 1 MINUTE	BETWEEN FRAME AND (+)LEAD WIRE.

ITEM	DESCRIPTION	SPEC.	
12	ROTATION	CW VIEW FROM NAME PLATE S IDE	
13	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS	
14	INSULATION RANK	UL: CLASS A	
15	LIFE EXPECTANCY	50000 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 ----- BALL BEARING
- 3-5. WEIGHT ----- 59 GRAMS
- 3-6. LEAD WIRE ----- 1007 AWG # 26
  - + POSITIVE .....RED
  - NEGATIVE .....BLACK

#### 4? ENVIRONMENTAL:

- 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 ) ·

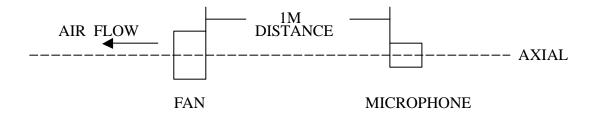
# 5? PROTECTION:

- 5-1. POLARITY PROTECTION

  BUILT-IN ELECTRONIC CIRCUIT PROTECTS THE FAN AGAINST
  REVERSE CONNECTION OF POSITIVE AND REVERSE LEADS.
- 5-2. LOCKED ROTOR PROTECTION
  THE CURRENT SHUT-DOWN CHARACTER PROVIDE A MINIMUN
  72Hrs SAFETY PROTECTION FOR FAN MOTOR WHILE LOCKED
  ROTOR OCCURED.

#### 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.