



PRODUCT STANDARD

SWITCHGEAR ENGINEERING DIVISION

ANNEXURE-A

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PURCHASE SPECIFICATION FOR PROCUREMENT

1.0 Feature : General

- 1.01 Item : AC Axial Fan
- 1.02 Drive : Shaded pole Motor

2.0 Feature : Constructional

- 2.01 Dimension : 120 x 120 x 60 (max) mm
- 2.02 Body material : Flame Retardant
- 2.03 Blade material : Flame Retardant
- 2.04 Bearing type : Double Ball Bearing
- 2.05 Connecting elements : Connector Terminals/Flying leads

3.0 Features : Electrical

- 3.01 Rated nominal voltage : 230V AC
- 3.02 Operational voltage range : 190V to 245V
- 3.03 Rated power consumption : $\leq 20W$
- 3.04 Locked motor protection : No Burnout Permissible after Rotor is Locked For 24 hrs at Rated Voltage
- 3.05 Dielectric strength : $\geq 1.5K V AC$ for 1 min
- 3.06 Insulation resistance : $\geq 10M\Omega$ at 500VDC

4.0 Features : Operational at rated voltage

- 4.01 Duty : Continuous
- 4.02 Air flow while static pressure = 0 : $> 95 CFM$
- 4.03 Static pressure while air flow = 0 : $> 8.4 CFM H_2O$
- 4.04 Noise for free air at distance of 1m : $\leq 42dB$
- 4.05 MTBF (Mean Time Between Failure) : 70,000 hrs at 40 °C

5.0 Features : Thermal

- 5.01 Insulation class : Class E
- 5.02 Winding temp. rise at rated voltage : $\leq 80 ^\circ C$

6.0 Features : Mechanical

- 6.01 Shock endurance in terms of : $\geq 90cm$
- 6.02 Dropping height for nos. of times -6 : $\geq 3g$
- 6.03 Vibration endurance in terms of : $\geq 10kgfcm$
- 6.04 Acceleration at frequency 15 Hz.
- 6.05 Ramic strength in terms of screw torque

7.0 Features : Environmental

- 7.01 Operating temp. range : $< 10 ^\circ C$ TO $\geq 70 ^\circ C$
- 7.02 Operating humidity : $\leq 10 \%$ TO $\geq 95\%$
- 7.03 Storage temp. range : $< 10 ^\circ C$ TO $\geq 70 ^\circ C$
- 7.04 Storage humidity : $\leq 10 \%$ TO $\geq 95\%$

REV.		APPROVED -		
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DATE		PREPARED	ISSUED	DATE
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