



BHARAT TEST HOUSE PVT. LTD.

781, HSIIDC Indl. Estate, Rai, Distt. Sonapat-131001, Haryana
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TEST REPORT

Test Report No. : 20180104002	Ref. No. : Nil
Issue Date : 04/01/18	Date : 22/12/17
Issued To : SSR Appliances	Job Order No. : BTH-R/EL/171222/2
D-4, Phase-IV (Extn), IDA, Jeedimetla, Hyderabad, Telangana - 500055	Date of Sample Receipt : 22/12/17
Sample Deposited/Collected by : Party.	Page :1...of...16....
Sample Description : Said to be, "Wall Fan (Normal Speed), Model: SSRWF 01, 400mm Sweep, 1300RPM, 57Watts Max, Input Voltage: 230V, AC, 50Hz, Brand: SSR".	
Date(s) of performance of tests : Date of Start: 22/12/17; Date of Completion: 04/01/18.	

S. No.	Tests & Clause Reference	Requirement as per IEC 60335-2-80 Edition 2.2	Results
1.	Classification (Cl. 6 of IEC 60335-2-80)	Appliances shall be of one of the following classes with respect to protection against electric shock (Cl.6.1 of IEC 60335-1) Class 0, Class 0I, Class I, Class II, Class III	Class II
		Appliances shall have the appropriate degree of protection against harmful ingress of water. (Cl.6.2 of IEC 60335-1) Duct Fans shall be at least IPX2. (Cl.6.2 of IEC 60335-2-80)	IPX0 N/A
		Fan shall be of one of the following classes with respect to climatic conditions (Cl.6.101 of IEC 60335-2-80) - Fans for temperate climates - Fans for tropical climates	Fans for tropical climates
2.	Marking and Instructions (Cl.7 of IEC 60335-2-80)	Appliance shall be marked with the following information (Cl.7.1 of IEC 60335-1) - Rated voltage or voltage range, in volts;	230V
		- Symbol for nature of supply, unless the rated frequency is marked;	50Hz
		- Rated power input in Watts or rated current in amperes;	57W
		- Name, trade- mark or identification mark of the manufacturer or responsible vendor.	SSR
		- Model or type reference;	SSR TF01
		- Symbol for class II appliances only	Not Marked
		- IP number according to degree of protection against ingress of water, other than IPX0;	Not Marked
		Fans for tropical climates shall be marked with the letter T. Fans intended for location where the local ambient temperature exceeds 40°C shall be marked with ambient operating temperature. (Cl.7.1 of IEC 60335-2-80)	Not Marked
		Stationary appliances for multiple supplies shall be marked as per Cl.7.2 of IEC 60335-1.	N/A
Appliances having range of rated values and which can be operated without adjustment throughout the range shall be marked with lower and upper limits separated by hyphen as per Cl.7.3 of IEC 60335-1.	N/A		

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	If an appliance can be adjusted for different rated voltages, the voltage to which the appliance is adjusted shall be clearly discernible.(Cl.7.4 of IEC 60335-1)	N/A
	For appliances marked with more than one rated voltage or with one or more voltage ranges, the rated power input or rated current for each of these voltages or ranges shall be marked as per Cl.7.5 of IEC 60335-1.	N/A
	When symbols are used they shall be in accordance with Cl. 7.6 of IEC 60335-1.	Marked
	Appliances to be connected to more than two supply conductors and appliances for multiple supply shall have a connection diagram fixed to them as per Cl.7.7 of IEC 60335-1.	N/A
	Except for type Z attachment, terminals used for connection to the supply mains shall be indicated as per Cl. 7.8 of IEC 60335-1.	Not Marked
	Switches which may give rise to a hazard when operated shall be marked as per Cl.7.9 of IEC 60335-1.	N/A
	Different positions of switches on stationary appliances and different positions of controls on all appliances shall be indicated by figures, letters or other visual means as per Cl.7.10 of IEC 60335-1.	Satisfactory
	Controls intended to be adjusted during installation or in normal use shall be provided with an indication for direction of adjustment. (Cl.7.11 of IEC 60335-1)	Satisfactory
	Instructions for use shall be provided as per Cl.7.12 of IEC 60335-1 and IEC 60335-2-80.	Instructions not provided
	If it is necessary to take precautions during installation of the appliance, appropriate details shall be given as per cl. 7.12.1 of IEC 60335-1.	N/A
	If a stationary appliance is not fitted with a supply cord and a plug, or with other means of disconnection from the supply mains as per Cl. 7.12.2 of IEC 60335-1.	N/A
	If the insulation of the fixed wiring supplying an appliance for permanent connection to the supply mains can be come into contact with parts having temperature rise exceeding 50K during the test of Cl. 7.12.3 as per IEC 60335-1.	N/A
	The instruction for built in appliances shall include information with regard as per Cl. 7.12.4 of IEC 60335-1.	N/A
	For appliance with type X attachment having a specially prepared cord as per Cl. 7.12.5 of IEC 60335-1.	N/A
	If a non self resetting thermal cutout is required in order to comply with the standard as per Cl. 7.12.6 of IEC 60335-1.	N/A
	The instruction for fixed appliances shall state how the appliance is to be fixed to its support as per Cl. 7.12.7 of IEC 60335-1.	Instructions not provided
	The instruction for appliances connected to the water mains as per Cl. 7.12.8 of IEC 60335-1.	N/A
	Instructions and text shall be in an official language of the country in which appliance is to be sold. (Cl.7.13 of IEC 60335-1)	Satisfactory

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		The markings shall be clearly legible and durable as per Cl.7.14 of IEC 60335-1.	Satisfactory
		Marking shall be on main part of appliance as per Cl. 7.15 of IEC 60335-1.	Satisfactory
		If compliance with this standard depends upon the operation of a replaceable thermal link or fuse link, the reference number or other means for identifying the link shall be marked as per Cl. 7.16 of IEC 60335-1.	N/A
3.	Protection Against Access to Live Parts (Cl. 8 of IEC 60335-2-80)	Appliances shall be so constructed and enclosed so that there is adequate protection against accidental contact with live parts. Compliance is checked by inspection and by the tests as per Cl.8.1 of IEC 60335-1.	Satisfactory
		The requirement of 8.1 applies for all position of the appliance when it is operated as in normal use, and after the removal of detachable parts as per Cl. 8.1.1 of IEC 60335-1 and Cl. 8.1.1 of IEC 60335-2-80.	N/A
		Test probe 13 of IEC 61032 is applied with a force not exceeding 1N through openings in class 0 appliances, class II appliances and class II constructions as per Cl. 8.1.2 of IEC 60335-1.	N/A
		Instead of test probe B and test probe 13 for appliances other than those of class II as per Cl. 8.1.3 of IEC 60335-1.	N/A
		An accessible part is not considered to be live if conditions as per Cl. 8.1.4 of IEC 60335-1.	N/A
		Live parts of built-in appliances, fixed appliances and appliances delivered in separate unit, shall be protected at least by basic insulation before assembly or installation as per Cl. 8.1.5 of IEC 60335-1.	Satisfactory
		Class II appliances and Class II constructions shall be constructed and enclosed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only as per Cl.8.2 of IEC 60335-1 and as per Cl. 8.2 of IEC 60335-2-80.	Satisfactory
		After the removal of detachable parts for the purposes of user maintenance, the basic insulation of internal wiring may be touched provided that it is electrically equivalent to the insulation cords as per Cl.8.2 of IEC 60335-2-80.	N/A
4.	Starting of Motor Operated Appliances (Cl. 9 of IEC 60335-2-80)	Not Applicable	
5.	Power Input & Current (Cl. 10 of IEC 60335-2-80)	If an appliance is marked with rated power input, the power input at normal operating temperature shall not deviate from the rated power input by more than the deviation as shown in Table 1. (Cl.10.1 of IEC 60335-1) Rated power input: 57 W Deviation: +20%	54.81W

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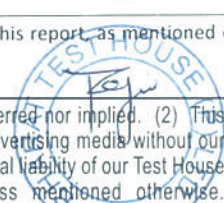
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		If an appliance is marked with rated current, the current at normal operating temperature shall not deviate from the rated current by more than the deviation as shown in Table 2. (Cl.10.2 of IEC 60335-1) Rated Current input: _____ A Deviation: _____	Not Marked
6.	Heating (Cl. 11 of IEC 60335-2-80)	Appliances and their surroundings shall not attain excessive temperatures in normal use. Compliance is checked by determining the temperature rise of the various parts under the conditions as per Cl.11.2 to Cl.11.7 of IEC 60335-1. (Cl.11.1 of IEC 60335-1). The temperature rise limits for appliances for tropical climates are reduced by 15K. The temperature rise limits for fans marked with an ambient operating temperature are reduced by the difference between the marked value and 25°C. (Cl.11.8 of IEC 60335-2-80)	Satisfactory
		a) Windings	38.88K
		b) Rubber, polychloroprene or polyvinyl chloride insulation of internal wiring, including supply cords: - Without temperature rating or with a temperature rating not exceeding 75°C - 50 K	8.1K
		c) Rubber, polychloroprene or polyvinyl chloride insulation of external wiring, including supply cords: - Without temperature rating or with a temperature rating not exceeding 75°C - 50 K	2.2K
		d) Wooden supports, walls, ceiling and floor of the test corner an wooden cabinet: - Other appliances 65 K	1.1K
		e) Outer Surface of Capacitors - With marking of maximum operating temperature - T-25 K	9.8K
		f) External enclosure of motor operated appliances, except handles held in normal use: - Of coated metal (60 K)	2.3K
		Room temperature	25°C
7.	Leakage Current & Electric Strength at Operating Temperature (Cl.13 of IEC 60335-2-80)	At operating temperature, the leakage current of the appliance shall not be excessive and electric strength shall be adequate as per Cl.13.1 60335-1.	Satisfactory
		Leakage current 0.35 mA, max (Cl.13.2 of IEC 60335-1)	0.061mA
		High Voltage: Shall withstand 1000 Volts for one minute, for Basic insulation. No breakdown shall occur during the test. (Cl.13.3 of IEC 60335-1)	Withstood
8.	Transient Over Voltages (Cl.14 of IEC 60335-2-80)	Appliance shall withstand the Transient Over Voltages to which they may be subjected. Compliance is checked by subjecting each clearance having a value less than those specified in Table 16 of IEC 60335-1 to an impulse voltage test. There shall be no flash over. (Cl.14 of IEC 60335-1)	N/A
9.	Moisture Resistance (Cl.15 of IEC 60335-2-80)	The enclosure of the appliance shall provide the degree of protection against moisture in accordance with the classification of the appliance. Compliance is checked as per Cl.15.1 of IEC 60335-1.	N/A (IPX0)

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		Appliances subject to spillage of liquid in normal use shall be constructed so that such spillage does not affect their electrical insulation as per Cl.15.2 of IEC 60335-1.	N/A
		Appliances shall be proof against humid conditions that may occur in normal use. Compliance is checked as per Cl.15.3 of IEC 60335-1.	Satisfactory
10.	Leakage Current and Electric Strength (Cl.16 of IEC 60335-2-80)	The leakage current of the appliance shall not be excessive and its electric strength shall be adequate. Compliance is checked as per Cl.16.1 of IEC 60335-1.	Satisfactory
		Leakage Current 0.25mA, max. (Cl.16.2 of IEC 60335-1)	0.072mA
		High Voltage: Shall withstand 1250 Volts for one minute, for basic insulation. (Cl.16.3 of IEC 60335-1)	Withstood
11.	Overload Protection of Transformers & Associated circuits (Cl.17 of IEC 60335-2-80)	Appliances incorporating circuits supplied from a transformer shall be constructed so that in the event of short circuits which are likely to occur in normal use, excessive temperatures do not occur in the transformer or in the circuits associated with transformer as per Cl.17 of IEC 60335-1.	N/A
12.	Endurance (Cl.18 of IEC 60335-2-80)	Not Applicable	
13.	Abnormal Operation (Cl.19 of IEC 60335-2-80)	Appliances shall be constructed so that as a result of abnormal or careless operation, the risk of fire, mechanical damage impairing safety or protection against electric shock is obviated as far as practicable as per Cl. 19.1 of IEC 60335-1.	Satisfactory
		Fans incorporating shutters or similar devices operated by a control are also subjected to the test as per Cl.19.101 of IEC 60335-2-80.	N/A
		During the test as per Cl. 19.7 of IEC 60335-1 appliance operated until steady state conditions are established and temperature of the windings shall not exceed the value specified in table 8 of IEC 60335-1.	N/A
		Separate controls are mounted on a dull-black painted plywood board. Approximately 50% of the area of each ventilating opening is blocked. The temperature of windings shall not exceed the values specified in table 8 and the temperature rise of the board shall not exceed - 50 k, for appliance with T marking; - 65 K, for other appliances.	N/A
		One phase of appliances, incorporating three-phase motor is disconnected. The appliance is operated under normal operation and supplied at rated voltage as per Cl.19.8 of IEC 60335-1.	N/A
		Appliance incorporating series motors are operated with the lowest possible load and supplied at 1.3 times rated voltage for 1 min as per Cl.19.10 of IEC 60335-1.	N/A
		Electronic circuits are checked by evaluation of the fault conditions as per Cl.19.11 of IEC 60335-1.	N/A
		If safety of the appliance depends upon the operation of a miniature fuse-link during any of the fault conditions, compliance is checked as per Cl.19.12 of IEC 60335-1.	N/A
		During the tests the appliance shall not emit flames, molten metal, or poisonous or ignitable gas in hazardous amounts and temperature rises shall not exceed the values as per Cl.19.13 of IEC 60335-1.	No flames, molten metal or poisonous or ignitable gas emitted

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		Appliances are operated under the conditions of Clause 11. Any contactor or relay contact that operates under the conditions of Clause 11 is short-circuited. (Cl.19.14 of IEC 60335-1)	N/A
		For appliances incorporating a mains voltage selector switch, this switch is said to the lowest rated voltage position and the highest value of rated voltage is applied(Cl.19.15 of IEC 60335-1)	N/A
		Fans incorporating shutters or similar devices that are operated automatically are supplied at rated voltage and operated as per Cl.19.101 of IEC 60335-2-80.	N/A
14.	Stability & Mechanical Hazards (Cl.20 of IEC 60335-2-80)	Portable pedestal fans are tested as per Cl. 20.1 of IEC 60335-2-80.	N/A
		Appliances, other than fixed appliances and hand-held appliances, intended to be used on a surface such as the floor or a table shall have adequate stability as per Cl.20.1 of IEC 60335-1.	N/A
		Moving parts of appliances shall, as far as is compatible with the use and working of the appliance as per Cl. 20.2 of IEC 60335-1.	N/A
		Fan blades, other than those of fans for mounting at high level, shall be guarded as per Cl.20.101 of IEC 60335-2-80.	Satisfactory
15.	Mechanical Strength (Cl.21 of IEC 60335-2-80)	Appliance shall have adequate mechanical strength and be constructed to withstand such rough handling that may be expected in normal use. Compliance is checked as per Cl. 21.1 of IEC 60335-1 & IEC 60335-2-80. After the test, appliance shall show no damage that could impair compliance with the standard.	Satisfactory
		Accessible part of solid insulation shall have sufficient to prevent penetration by sharp implements as per Cl. 21.2 of IEC 60335-1	Satisfactory
		Fan guards are subjected to test as per Cl. 21.101 of IEC 60335-2-80.	Satisfactory
		Celling fan shall have adequate strength after the test as per Cl.21.102 of IEC 60335-2-80.	N/A
16.	Construction (Cl.22 of IEC 60335-2-80)	If the appliance is marked with the first numeral of the IP system, the relevant requirements of IEC 60529 shall be fulfilled. The enclosure defined in IEC 60529 does not include guard for fan blades. (Cl.22.1 of IEC 60335-2-80 & IEC 60335-1)	N/A (IPX0)
		For stationary appliances, means shall be provided to ensure all pole disconnection from supply mains. Such means shall be as per Cl.22.2 of IEC 60335-1.	Supply cord fitted with a plug
		Appliance with pins for insertion into socket-outlets shall not impose undue strain on these socket-outlets. The means for retaining the pins shall withstand the forces to which the pins are likely to be subjected in normal use. Compliance is checked as per Cl.22.3 of IEC 60335-1.	N/A
		Appliance for heating liquids and appliances causing undue vibration shall not be provided with pins for insertion into socket-outlets. Compliance is checked by inspection as per Cl. 22.4 of IEC 60335-1.	N/A
		Appliances intended to be connected to the supply mains by means of a plug shall be constructed so that in normal use there is no risk of electric shock from charged capacitors when the pins of plug are touched. Compliance is checked as per Cl.22.5 of IEC 60335-1.	Satisfactory

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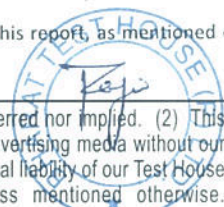
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	Appliances shall be constructed so that their electrical insulation cannot be affected by water that could condense on cold surfaces or by liquid that could leak from containers, hoses, coupling or similar parts of the appliance. Compliance is checked as per Cl.22.6 of IEC 60335-1.	N/A
	Appliances containing liquid or gases in normal use or having steam-producing devices shall incorporate adequate safeguards against the risk of excessive pressure. Compliance is checked by inspection as per Cl.22.7 of IEC 60335-1.	N/A
	Appliances having compartments to which access can be gained without the aid of a tool and that are likely to be cleaned in normal use, the electrical connections shall be arranged so that they are not subject to pulling during cleaning as per Cl.22.8 of IEC 60335-1.	N/A
	Appliances shall be so constructed so that parts such as insulation, internal wiring, windings, commutators and slip rings are not exposed oil, grease or similar substances, unless the substance has adequate insulating properties so that compliance with the standard is not impaired. Compliance is checked as per Cl.22.9 of IEC 60335-1.	Satisfactory
	It shall not possible to reset voltage-maintained non-self-resetting thermal cutouts by the operation of an automatic switching device incorporating within the appliance. Compliance is checked by inspection as per Cl.22.10 of IEC 60335-1.	N/A
	Non-detachable parts that protect against access to live parts, moisture or contact with moving parts shall be fixed in reliable manner and withstand the mechanical stress occurring during normal use. Compliance is checked as per Cl.22.11 of IEC 60335-2-80 & IEC 60335-1	Satisfactory
	Handle, knob, grips, levers and similar parts shall be fixed in a reliable manner so that they will not work loose in normal use. Compliance is checked as per Cl.22.12 of IEC 60335-1.	Satisfactory
	Appliances shall be so constructed so that when handles are gripped in normal use, contact is unlikely between the operator's hand and parts having a temperature rise exceeding the value specified in Table 3 for handles which are held for short periods only in normal use, as per Cl.22.13 of IEC 60335-1.	N/A
	Appliances shall have no ragged or sharp edges. Compliance is checked by inspection as per Cl.22.14 of IEC 60335-1.	Satisfactory
	Storage hooks and similar devices for flexible cords shall be smooth and well rounded. Compliance is checked by inspection as per Cl.22.15 of IEC 60335-1	N/A
	Automatic cord reels shall be as per Cl.22.16 of IEC 60335-1.	N/A
	Spacers intended to prevent the appliance from overheating walls shall be in accordance with Cl.22.17 of IEC 60335-1.	N/A
	Current carrying parts and other metal parts, the corrosion of which could result in a hazard, shall be resistant to corrosion under normal condition of use. The relevant parts shall show no sign of corrosion after tests, as per Cl.22.18 of IEC 60335-1.	Satisfactory

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	Driving Belts shall not be relied upon to provide the required level of insulation unless they are constructed to prevent inappropriate replacement as per Cl.22.19 of IEC 60335-1.	N/A
	Direct contact between live parts and thermal insulation shall be effectively prevented unless such material is non-corrosive, non-hygroscopic and non-combustible. Compliance is checked by inspection as per Cl.22.20 of IEC 60335-1.	N/A
	Wood, cotton, Silk, ordinary paper and similar fibrous or hygroscopic material shall not be used as insulation, unless impregnated as per Cl.22.21 of IEC 60335-1.	Satisfactory
	Appliance shall not contain asbestos. (Cl.22.22 of IEC 60335-1)	Satisfactory
	Oils containing polychlorinated biphenyl (PCB) shall not be used in appliances. (Cl.22.23 of IEC 60335-1)	N/A
	Bare heating elements shall be supported so that the heating conductor is unlikely to come into contact with accessible metal parts, if they rupture. Compliance is checked as per Cl.22.24 of IEC 60335-1.	N/A
	Appliances, other than those of class- III, shall be constructed so that sagging heating conductors cannot come into contact with accessible metal part. Compliance is checked by inspection as per Cl.22.25 of IEC 60335-1.	N/A
	Appliance having parts of class III construction shall be constructed as per Cl.22.26 of IEC 60335-1	N/A
	Parts connected by protective impedance shall be separated by double insulation or reinforced insulation. Compliance is checked as per Cl.22.27 of IEC 60335-1.	N/A
	For class II appliance connected in normal use to the gas mains or to the water mains, metal parts conductively connected to the gas pipes or in contact with the water shall be separated by live part by live parts by double insulation or reinforced insulation. Compliance is checked by inspection as per Cl.22.28 of IEC 60335-1.	N/A
	Class II appliances intended to be permanently connected to fixed wirings shall be constructed so that the required degree of access to live parts is maintained after installation. Compliance is checked by inspection as per Cl.22.29 of IEC 60335-1.	N/A
	Parts of Class II construction which serve as supplementary or reinforced insulation, and which could be omitted after reassembly after servicing, shall be as per Cl.22.30 of IEC 60335-1.	N/A
	Clearance and creepage distances over supplementary insulation & reinforced insulation shall not be reduced below the value specified in clause 29 as a result of wear. Compliance is checked by inspection, by measurement and by manual test as per Cl.22.31 of IEC 60335-1.	Satisfactory
	Supplementary and reinforced insulation shall be constructed or protected so that deposition of pollution resulting from wear of parts within the appliance does not reduce clearance and creepage distances below the values specified in Cl.29. Compliance is checked as per Cl.22.32 of IEC 60335-1.	N/A

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	<p>Conductive liquids that are or may become accessible in normal use shall not be in direct contact with live parts. Electrodes shall not be used for heating liquids. Compliance is checked as per Cl.22.33 of IEC 60335-1.</p>	N/A
	<p>Shafts of opening knobs, handles, levers and similar parts shall not be live unless the shaft is inaccessible when the part is removed. Compliance is checked as per Cl.22.34 of IEC 60335-1.</p>	Satisfactory
	<p>For constructions other than those of Class III, handles, levers and knobs that are held or actuated in normal use shall not become live in the event of a failure of basic insulation. Compliance is checked as per Cl.22.35 of IEC 60335-1.</p>	Satisfactory
	<p>For appliances other than those of Class III, handles which are continuously held in the hand in normal use shall be constructed so that when gripped in normal use, the operator's hand is not likely to touch metal parts unless they are separated from live parts by double insulation or reinforced insulation. Compliance is checked as per Cl.22.36 of IEC 60335-1.</p>	N/A
	<p>For Class II appliances, capacitors shall not be connected to accessible metal parts and their casings, if of metal, shall be separated from accessible metal parts by supplementary insulation. Compliance is checked as per Cl.22.37 of IEC 60335-1.</p>	Satisfactory
	<p>Capacitors shall not be connected between the contacts of a thermal cut-out. (Cl.22.38 of IEC 60335-1)</p>	N/A
	<p>Lampholders shall be used only for connection of lamps. (Cl.22.39 of IEC 60335-1)</p>	N/A
	<p>Motor-operated appliances and combined appliances which are intended to be moved while in operation, or which have accessible moving parts, shall be fitted with a switch to control the motor. Compliance is checked as per Cl. 22.40 of IEC 60335-1.</p>	Satisfactory
	<p>Appliances shall not incorporate components, other than lamps, containing mercury. (Cl.22.41 of IEC 60335-1)</p>	N/A
	<p>Protective impedance shall consist of at least two separate components whose impedance is unlikely to change significantly during the lifetime of the appliance. If any one of the components is short circuited or open circuited the value specified in 8.1.4 shall not be exceeded. Compliance is checked as per Cl.22.42 of IEC 60335-1.</p>	N/A
	<p>Appliances which can be adjusted for different voltages shall be constructed so that accidental changing of the setting is unlikely to occur. (Cl.22.43 of IEC 60335-1)</p>	N/A
	<p>Appliances shall not have an enclosure that is shaped and decorated like a toy. (Cl.22.44 of IEC 60335-1).</p>	Satisfactory
	<p>When air is used as reinforced insulation, the appliance shall be constructed so that clearance cannot be reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure. (Cl.22.45 of IEC 60335-1)</p>	N/A

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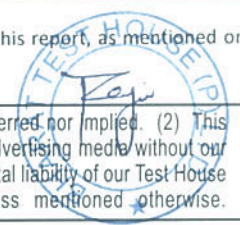
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		Software used in protective electronic circuits shall be software Class B or software Class C. (Cl.22.46 of IEC 60335-1).	N/A
		Appliance intended to be connected to the water mains shall withstand the water pressure expected in normal use. Compliance is checked as per Cl.22.47 of IEC 60335-1.	N/A
		Appliance intended to be connected to the water mains shall be constructed to prevent backsiphonage of non-portable water into the water mains. Compliance is checked as per Cl.22.48 of IEC 60335-1.	N/A
		For remote operation, the duration of operation shall be set before the appliance can be started unless the appliances switches off automatically at the end of a cycle or it can operate continuously without giving rise to a hazard. Compliance is checked as per Cl.22.49 of IEC 60335-1.	N/A
		Control incorporated in the appliance, if any, shall take priority over controls actuated by remote operation. (Cl.22.50 of IEC 60335-1)	N/A
		A control on the appliance shall be manually adjusted to the setting for remote operation as per Cl.22.51 of IEC 60335-1.	N/A
		Socket-outlet on appliances accessible to the user shall be in accordance with the socket-outlet used in the country in which the appliance is sold. (Cl.22.52 of IEC 60335-1.	N/A
		Socket outlets on appliances accessible to the user shall be in accordance with the socket outlet system used in the country in which the appliance sold as per Cl. 22.53 of IEC 60335-1.	N/A
		Button cells and batteries designated R1 shall not be accessible without the aid of a tool as per Cl. 22.54 of IEC 60335-1.	N/A
		Appliances having provision for attaching a luminaire shall incorporate terminals and internal wiring as per Cl.22.101 of IEC 60335-2-80.	N/A
17.	Internal Wiring (Cl.23 of IEC 60335-2-80)	Wire ways shall be smooth and free from sharp edges. Wire shall be protected so that they do not come in contact with burrs, cooling fins or similar edges. Holes in metal through which insulated wires pass shall have smooth well-rounded surface or be provided with bushings. Wiring shall be effectively prevented from coming into contact with moving parts. Compliance is checked as per Cl.23.1 of IEC 60335-1.	Satisfactory
		Beads and similar ceramic insulators shall be fixed or located so that they cannot change their position or rest on sharp edges. Compliance is checked as per Cl.23.2 of IEC 60335-1.	N/A
		Instead of moving the movable part backwards and forwards, fans with an oscillating mechanism are tested as per Cl.23.3 of IEC 60335-1.	Satisfactory
		Bare internal wiring shall be rigid and fixed so that, in normal use, clearances or Creepage distances cannot be reduced below the values specified in Cl.29. Compliance is checked as per Cl.23.4 of IEC 60335-1.	N/A
		The insulation of internal wiring shall withstand the electric stress likely to occur in normal use. The basic insulation shall withstand electric strength test at 2000V for 15 minutes as per Cl.23.5 of IEC 60335-1.	Satisfactory

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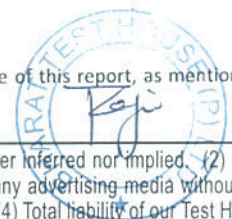
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		When sleeving is used as supplementary insulation on internal wiring, it shall be retained in position by positive means. Compliance is checked as per Cl.23.6 of IEC 60335-1.	Sleeving not used
		Conductors identified by the colour combination green/yellow shall only be used for earthing conductors. (Cl.23.7 of IEC 60335-1)	N/A
		Aluminum wires shall not be used for internal wiring. (Cl.23.8 of IEC 60335-1)	Satisfactory
		Stranded conductors shall not be consolidated by lead-tin soldering where they are subjected to contact pressure, unless the clamping means is constructed so that there is no risk of bad contact due to cold flow of the solder. (Cl.23.9 of IEC 60335-1)	Satisfactory
		The insulation and sheath of internal wiring, incorporating in external hoses for the connection of an appliance to the water mains, shall be at least equivalent to that of light polyvinyl chloride sheathed flexible cord. (Cl. 23.10 of IEC 60335-1)	Satisfactory
18.	Component (Cl.24 of IEC 60335-2-80)	Components shall comply with the safety requirements specified in the relevant IEC standards. (Cl.24.1 of IEC 60335-1)	Satisfactory
		Appliance having a rated power input not exceeding 25 W may be fitted with a switch in the supply cord. (Cl.24.2 of IEC 60335-2-80)	N/A
		Appliances shall not be fitted with: (Cl.24.2 of IEC 60335-1) <ul style="list-style-type: none"> - Switches or automatic controls on flexible cords - Device that cause the protective device in the fixed wiring to operate in the event of a fault in the appliance - Thermal cut-outs that can be reset by a soldering operation. 	Satisfactory
		Switches intended to ensure all-pole disconnection of stationary appliances shall be directly connected to the supply terminals and shall have a contact separation in all poles as per Cl.24.3 of IEC 60335-1.	N/A
		Plugs and socket-outlets for extra-low voltage circuits, and those used as terminal devices for heating elements, shall not be interchangeable with plugs and socket-outlets or with connectors. Compliance is checked as per Cl.24.4 of IEC 60335-1.	N/A
		Capacitors in auxiliary windings of motors shall be marked with rated voltage and their rated capacitance and shall be used in accordance with these markings. Compliance is checked as per Cl.24.5 of IEC 60335-1.	Priya Capacitors Pvt. Ltd. Pune-26 1.85MFD±5%, 440VAC, 50Hz, MPPSH, IS 1709 Max temperature: 85°C Made in india
		The working voltage of motors directly connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance shall not exceed 42V. Compliance is checked as per Cl.24.6 of IEC 60335-1	N/A
		Detachable hose-sets for the connection of appliances to the water mains shall comply with IEC 61770. They shall be supplied with the appliance. (Cl.24.7 of IEC 60335-1)	N/A

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		Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding shall not cause a hazard in the event of a capacitor failure as per Cl.24.8 of IEC 60335-1	Satisfactory
		Thermal cut-outs incorporated in the duct fans in order to comply with Cl.19 shall not be self-resetting. (Cl.24.101 of IEC 60335-2-80)	N/A
19.	Supply Connection and External Flexible Cords (Cl.25 of IEC 60335-2-80)	Appliances, other than those intended to be permanently connected to fixed wiring, shall be provided with means for connection to the supply mains as per Cl.25.1 of IEC 60335-1.	N/A
		Appliances, other than stationary appliances for multiple supply, shall not be provided with more than one means of connection to supply mains. Compliance is checked as per Cl.25.2 of IEC 60335-1.	N/A
		Appliances intended to be permanently connected to fixed wiring shall allow the connection of the supply conductors after the appliance has been fixed to its support and shall be provided with one of the means for connection to the supply mains. Compliance is checked as per Cl.25.3 of IEC 60335-1.	N/A
		For Appliances intended to be permanently connected to fixed wiring and having rated current not exceeding 16A, cable and conduit entries shall be suitable for cables or conduits having a maximum overall dimension as per Cl.25.4 of IEC 60335-1.	N/A
		Supply cords shall be assembled to the appliance by one of the following methods: Type X attachment; Type Y attachment; Type Z attachment; Type Z attachment is allowed for portable fan. Compliance is checked as per Cl.25.5 of IEC 60335-2-80 and IEC 60335-1.	Type Y attachment N/A
		Plugs shall not be fitted with more than one flexible cord. (Cl.25.6 of IEC 60335-1).	Satisfactory
		Supply cords shall be as per Cl.25.7 of IEC 60335-1.	R.C.I CABLES, 1100V., ISI MARKED, IS 694 CM/L-2550752
		Conductors of supply cords shall have nominal cross sectional area not less than 0.50 mm ² . (Cl.25.8 of IEC 60335-1)	Red: 0.50mm ² Black: 0.50mm ²
		Supply cords shall not be in contact with sharp points or edges of the appliances. (Cl.25.9 of IEC 60335-1)	Satisfactory
		The supply cord of class-I appliance shall have a green/yellow core that is connected to the earthing terminal of the appliance and to the earthing contact of the plug. (Cl.25.10 of IEC 60335-1)	N/A

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	Conductors of the supply cords shall not be consolidated by lead-tin soldering where they are subjected to contact pressure, unless the clamping means is constructed so that there is no risk of a bad contact due to cold flow of the solder. (Cl.25.11 of IEC 60335-1)	Satisfactory
	The insulation of the supply cords shall not be damaged when moulding the cord to part of the enclosure. (Cl.25.12 of IEC 60335-1)	Satisfactory
	Inlet openings for supply cords shall be constructed so that the sheath of the supply cord can be introduced without risk of damage. Compliance is checked as per Cl.25.13 of IEC 60335-1.	Satisfactory
	Appliances provided with a supply cord that are moved while in operation shall be so constructed so that the supply cord is adequately protected against excessive flexing where it enters the appliance. Compliance is checked by the test as per Cl.25.14 of IEC 60335-1.	N/A
	Appliances provided with a supply cord, and appliances intended to be permanently connected to fixed wiring by a flexible cord, shall have a cord anchorage. The cord anchorage shall relieve conductors from strain at the terminals and protect the insulation of the conductors from abrasion. Compliance is checked by the test as per Cl.25.15 of IEC 60335-1. During the tests, the cord shall not be damaged and shall show no appreciable strain at the terminals.	N/A
	Cord anchorages for type X attachments shall be constructed and located as per Cl.25.16 of IEC 60335-1.	N/A
	For type Y attachment and type Z attachment, cord anchorage shall be adequate. Compliance is checked as per Cl.25.17 of IEC 60335-1.	Satisfactory
	Cord anchorages shall be arranged so that they are only accessible with the aid of a tool or shall be constructed so that the cord can only be fitted with the aid of a tool. (Cl.25.18 of IEC 60335-1)	Satisfactory
	For type X attachment, glands shall not be used as cord anchorages in portable appliances. Tying the cord into a knot or tying the cord with string is not allowed. (Cl.25.19 of IEC 60335-1)	N/A
	The insulated conductors of the supply cord for type Y attachment and type Z attachment shall be additionally insulated from accessible metal parts by basic insulation for class 0 appliances, class 0I appliances and class I appliances, and by supplementary insulation for class II appliances. Compliance is checked as per Cl.25.20 of IEC 60335-1.	Satisfactory
	The space for connection of supply cords having type X attachment or for the connection of fixed wiring shall be constructed as per Cl.25.21 of IEC 60335-1.	N/A
	Appliance inlets shall be as per Cl.25.22 of IEC 60335-1.	N/A
	Interconnection cords shall comply with the requirements for the supply cord as per Cl.25.23 of IEC 60335-1.	N/A
	Interconnection cords shall not be detachable without the aid of a tool as per Cl.25.24 of IEC 60335-1.	N/A

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		The dimensions of pins of appliances that are inserted into socket outlets shall be compatible with the dimensions of the relevant socket-outlet. Compliance is checked as per Cl.25.25 of IEC 60335-1.	N/A
20.	Terminals For External Conductors (Cl.26 of IEC 60335-2-80)	Appliances shall be provided with terminals or equally effective devices for connection of external conductors. Terminals shall only be accessible after removal of a non-detachable cover. However, earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection. (Cl.26.1 of IEC 60335-1)	Satisfactory
		Appliances having type X attachment and appliances for connection to fixed wiring shall be provided with terminals in which connections are made by means of screws, nuts or similar devices, unless the connections are soldered. Compliance is checked by as per Cl.26.2 of IEC 60335-1.	N/A
		Terminals for type X attachment and for connection to fixed wiring shall be constructed so that they clamp the conductor between metal surfaces with sufficient contact pressure but without causing damage to the conductor. Compliance is checked as per Cl.26.3 of IEC 60335-1.	N/A
		Terminals for type X attachment, except those with a specially prepared cord, and terminals for connection to fixed wiring, shall not require special preparation of conductors. They shall be constructed or placed so that the conductor cannot slip out when clamping screws or nuts are tightened. Compliance is checked by as per Cl.26.4 of IEC 60335-1.	N/A
		Terminals for type X attachment shall be located or shielded so that if a wire of a stranded conductor escapes, there is no risk of accidental connection to other parts that could result in a hazard. Compliance is checked by as per Cl. 26.5 of IEC 60335-1.	N/A
		Terminals for type X attachment and for connection to fixed wiring shall allow connection of conductors having nominal cross-sectional area according to table 13 as per Cl.26.6 of IEC 60335-1.	N/A
		Terminals for type X attachment shall be accessible after removal of a cover or part of the enclosure. (Cl. 26.7 of IEC 60335-1)	N/A
		Terminals for the connection to fixed wiring, including the earthing terminal, shall be located close to each other. (Cl. 26.8 of IEC 60335-1)	N/A
		Terminals of the pillar type shall be constructed and located as per Cl.26.9 of IEC 60335-1.	N/A
		Terminals with screw clamping and screwless terminals shall not be used for the connection of the conductors of flat twin tinsel cords, unless the ends of the conductors are fitted with means suitable for screw terminals. Compliance is checked by as per Cl. 26.10 of IEC 60335-1.	Satisfactory
		For type Y or Z attachment, soldered, welded, crimped and similar connections may be used for the connection of external conductors. Compliance is checked as per Cl.26.11 of IEC 60335-1.	Satisfactory (Soldered Connection used)

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21.	Provision For Earthing (Cl.27 of IEC 60335-2-80)	Accessible metal parts of Class 0I appliances and Class I appliances that may become live in the event of an insulation fault, shall be permanently and reliably connected to an earthing terminal within the appliance or to the earthing contact of the appliance inlet. Earthing terminals and earthing contacts shall not be connected to the neutral terminals. (Cl. 27.1 of IEC 60335-1)	N/A
		The clamping means of earthing terminals shall be adequately secured against accidental loosening. (Cl. 27.2 of IEC 60335-1)	N/A
		If a detachable part having an earth connection is plugged into another part of the appliance, the earth connection shall be made before current carrying connections are established. Compliance is checked as per Cl.27.3 of IEC 60335-1.	N/A
		All parts of the earthing terminal intended for connection of external conductors shall be such that there is no risk of corrosion resulting from contact between these parts and the copper of the earthing conductor or any other metal in contact with these parts. Compliance is checked as per Cl.27.4 of IEC 60335-1.	N/A
		The connection between the earthing terminal or earthing contact and earthed metal parts shall have low resistance. The resistance shall not exceed 0.1 Ω , when tested as per Cl.27.5 of IEC 60335-1.	N/A
		The printed conductors of printed circuit boards shall not be used to provide earthing continuity in hand held appliances. Compliance is checked as per Cl.27.6 of IEC 60335-1.	N/A
22.	Screws and Connections (Cl.28 of IEC 60335-2-80)	Fixings, the failure of which may impair compliance with this standard, electrical connections and connection providing continuity shall withstand the mechanical stress occurring in normal use. Compliance is checked as per Cl.28.1 of IEC 60335-1.	Satisfactory
		Electrical connections and connection providing continuity shall be constructed so that contact pressure is not transmitted through insulating material. Compliance is checked as per Cl.28.2 of IEC 60335-1.	Satisfactory
		Space-threaded (sheet metal) screws shall only be used for electrical connection if they clamp the parts together. Compliance is checked as per Cl.28.3 of IEC 60335-1.	Satisfactory
		Screws and nuts that make a mechanical connection between different parts of the appliance shall be secured against loosening. Compliance is checked as per Cl.28.4 of IEC 60335-1.	Satisfactory
23.	Clearances, Creepage Distances and Solid Insulation (Cl.29 of IEC 60335-2-80)	Minimum Clearance 1.5mm	10.10mm
		Minimum Creepage distance 4.0 mm	12.16mm



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24.	Resistance to Heat and Fire (Cl.30 of IEC 60335-2-80)	External parts of non-metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplastic material providing supplementary insulation or reinforced insulation, shall be sufficiently resistant to heat. Compliance is checked as per Cl.30.1 of IEC 60335-1.	Satisfactory
		Parts of non metallic material shall be resistant to ignition and spread of fire. Compliance is checked as per Cl. 30.2 of IEC 60335-1.	Satisfactory
25.	Resistance to Rusting (Cl.31 of IEC 60335-2-80)	Ferrous parts, the rusting of which might cause the appliance to fail to comply with this standard, shall be adequately protected against rusting.	Satisfactory
26.	Radiation, Toxicity and Similar Hazards (Cl.32 of IEC 60335-2-80)	Appliances shall not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use. Compliance is checked as per Cl. 32 of IEC 60335-1.	Satisfactory

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Remarks: Nil

Mary

Tested By



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