



NINGBO HUINING ELECTRICAL CO.,LTD

 LVD REPORT

Prepared For :	NINGBO HUINING ELECTRICAL CO.,LTD No 85 Qiyun Road Ningbo City Zhejiang Province China
Product Name:	WATER PURIFIER
Main Test Model	RO-5SLH-75G
Additional Model :	RO-5SLH-75G,RO-3-50G, RO-5-50G, RO-5C5-50G, RO-5C8-50G, RO-5CT-50G, RO-5S-50G, RO-5SLH-50G, RO-5SLV-50G, RO-6B-50G, RO-6BC5-50G, RO-6BC8-50G, RO-6BCT-50G, RO-3-75G, RO-5-75G, RO-5C5-75G, RO-5C8-75G, RO-5CT-75G, RO-5S-75G, RO-5-SLV-75G, RO-6B-75G, RO-6BC5-75G, RO-6BC8-75G, RO-6BCT-75G, RO-3-100G, RO-5-100G, RO-5C5-100G, RO-5C8-100G, RO-5CT-100G, RO-5S-100G, RO-5SLH-100G, RO-5SLV-100G, RO-6B-100G, RO-6BC5-100G, RO-6BC8-100G, RO-6BCT-100G, RO-1-200G, RO-2-300G, RO-4-75G, RO-10-75G, RO-11-75G, RO-12-75G, RO-13-75G
Prepared By :	Shenzhen BST Technology Co., Ltd. Building No.23-24,Zhiheng Industrial Park,Guankouer Road, Nantou, Nanshan District,Shenzhen,Guangdong,China
Test Date:	Jun. 12, 2014- Jun. 18, 2014
Date of Report :	Jun. 18, 2014
Report No.:	SHBST2014061315YSR-2



TEST Report	
EN60335-2-75	
Safety of household and similar electrical appliances	
Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	
Testing laboratory	Shenzhen BST Technology Co., Ltd.
Address	Building No.23-24,Zhiheng Industrial Park,Guankouer Road, Nantou,Nanshan District,Shenzhen,Guangdong,China
Testing location	Shenzhen BST Technology Co., Ltd.
Applicant	NINGBO HUINING ELECTRICAL CO.,LTD
Address	No 85 Qiyun Road Ningbo City Zhejiang Province China
Manufacturer	NINGBO HUINING ELECTRICAL CO.,LTD
Address	No 85 Qiyun Road Ningbo City Zhejiang Province China
Standard	EN 60335-1:2012 EN 60335-2-75:2004+A12:2010
Test Result	Compliance with EN 60335-1:2012 EN 60335-2-75:2004+A12:2010
Procedure deviation	N.A.
Non-standard test method	N.A.
Type of test object	WATER PURIFIER
Trademark	Huining
Model/type reference	RO-5SLH-75G, RO-5SLH-75G,RO-3-50G, RO-5-50G, RO-5C5-50G, RO-5C8-50G, RO-5CT-50G, RO-5S-50G, RO-5SLH-50G, RO-5SLV-50G, RO-6B-50G, RO-6BC5-50G, RO-6BC8-50G, RO-6BCT-50G, RO-3-75G, RO-5-75G, RO-5C5-75G, RO-5C8-75G, RO-5CT-75G, RO-5S-75G, RO-5-SLV-75G, RO-6B-75G, RO-6BC5-75G, RO-6BC8-75G, RO-6BCT-75G, RO-3-100G, RO-5-100G, RO-5C5-100G, RO-5C8-100G, RO-5CT-100G, RO-5S-100G, RO-5SLH-100G, RO-5SLV-100G, RO-6B-100G, RO-6BC5-100G, RO-6BC8-100G, RO-6BCT-100G, RO-1-200G, RO-2-300G, RO-4-75G, RO-10-75G, RO-11-75G, RO-12-75G, RO-13-75G
Rating	110-220V~, 50/60Hz, 30W
Test item particulars :	
Operation condition	Continuous
Class of equipment	Class II
Protection against ingress of water . :	IPX0



Test item particulars	
Classification of installation and use	Portable appliance
Supply Connection	Supply cord with plug
Additional information	N/A
National requirements	N/A
Other requirements.....	N/A
Nature of supply	d.c.
Class of protection against electrical shock	Class II
Degree of protection against moisture	IPX0
Type of cord attachment	Type Y
Nominal capacity of container	see copy of marking plates
Type of mounting	
- building-in	No
- independent	Yes
- to be fixed to a support	No
- hand-held	No
switch	No
thermostat	Yes
thermal cut-out	Yes
electronic circuit	No
programme controller	No
timer	No
portable appliance	No
more than one function	No
alternative accessories provided	No
interlock between lid and main switch	No
water outlet	No
power supply cord provided	Yes
appliance inlet provided	No
appliance for unattended use	Yes
bare heating elements	No
series motors incorporated	No
motor with capacitor in auxiliary winding	No
appliance to be immersed for cleaning	No
appliance for outdoor use	No
connector incorporating a thermostat	No



Test case verdicts

Test case does not apply to the test object: N/A

Test item does meet the requirement: P(ass)

Test item does not meet the requirement: F(ail)

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

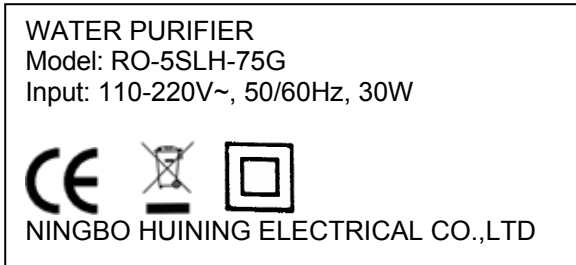
"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Throughout this report a comma is used as the decimal separator.

Note: The series products have the same circuit diagram, PCB layout and functionality. The differences are the model name, so, we select RO-5SLH-75G to test.

Copy of marking plate



Prepared by :

Alex Liao

Engineer

Reviewer :

CS Chan

Supervisor

Approved & Authorized Signer :

Christina

Christina / Manager



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		P
	Tests performed according to cl. 5, e.g. nature of supply, sequence of testing, etc.		P
5.2	Note: Three samples used for test of 15.102		N/A
5.6	Controls, switching devices or other parts adjusted to most unfavourable settings (EN 60335-2-75)		—
	- in user area		P
	- in maintenance area		N/A
5.9	Appliance tested with software (EN 60335-2-75)		N/A
5.10	Appliances installed in accordance with instructions (EN 60335-2-75)		P
5.101	Appliances connected to water mains (temperature 15 °C ± 5 °C) (EN 60335-2-75)		N/A
	Appliances filled with water (temperature 15 °C ± 5 °C) (EN 60335-2-75)		P
	Appliances intended to cool water (temperature 25 °C ± 5 °C) (EN 60335-2-75)		N/A
5.102	Instruction for maintenance used (EN 60335-2-75)		P
	Access key used (EN 60335-2-75)		N/A
5.103	Test probe 18 of EN 61032 applied in user area (EN 60335-2-75)		P
5.104	Appliances of the professional & supervised types tested as heating appliances (EN 60335-2-75)		N/A
6	CLASSIFICATION		P
6.1	Protection against electric shock: Class 0, 0I, I, II, III		P
6.1	Protection against electric shock: Class I, II, III (EN 60335-2-75)	Class II	P
6.2	Protection against harmful ingress of water	IPX0	P
	Appliances of class IPX4 (EN 60335-2-75) and		N/A
	of class IPX5 (EN 60335-2-75)		N/A
7	MARKING AND INSTRUCTIONS		P
7.1	Rated voltage or voltage range (V)	110-220V	P
	Nature of supply		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Rated frequency (Hz).....:		N/A
	Rated power input (W):.....:	See marking plates	P
	Rated current (A)		N/A
	Manufacturer’s or responsible vendor’s name, trademark or identification mark	See marking plates	P
	Model or type reference.....:	See marking plates	P
	Symbol 5172 ofEN 60417, for Class II appliances		N/A
	IP number, other than IPX0		N/A
	Rated pressure in Mpa (bar) (EN 60335-2-75) ..:		N/A
	Maximum permissible water pressure in Mpa (bar) (EN 60335-2-75)		N/A
	Appliance intended to be filled by hand has means that indicates the required level for correct operation (EN 60335-2-75)		N/A
	Appliances incorporating socket outlet, voltage, nature of the supply and current or power output marked in vicinity of the socket outlet (EN 60335-2-75)		N/A
	Appliance intended to be partially immersed in water for cleaning is marked with the max. level of immersion and text “Do not immerse beyond this level” (EN 60335-2-75)		N/A
	SymbolEN 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains		N/A
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen		N/A
	Different rated values marked with the values separated by an oblique stroke		P
	Adjustment has to be made by maintenance person and the appliance complies with all 7.3 requirements (EN 60335-2-75)		N/A
7.4	Appliances adjustable for different rated voltages, the voltage setting is clearly discernible		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N/A
	the power input is related to the arithmetic mean value of the rated voltage range		P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply		N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		P
	- marking of terminals exclusively for the neutral conductor (N)		P
	- marking of protective earthing terminals (symbol 5019 of EN 60417)		P
	- marking not placed on removable parts		P
	Terminals for equipotential bonding indicated by symbol EN 60417-5021 (2002-10) (EN 60335-2-75)		N/A
	Symbol not placed on screws, removable washers or other removable parts (EN 60335-2-75)		P
7.9	Marking or placing of switches which may cause a hazard		P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means..... :		P
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
7.11	Indication for direction of adjustment of controls		P
7.12	Instructions for safe use provided		P
	The instructions state that:		P
	- the appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- children being supervised not to play with the appliance		P
7.12.1	Sufficient details for installation supplied		P
	Installation instructions for means of connection and for national rules that may be applicable (EN 60335-2-75)		P
	- States if appliance is suitable for outdoor use (EN 60335-2-75)		N/A
	- States the maximum and minimum ambient temperatures for correct operation (EN 60335-2-75)		N/A
	for appliances that are not at least IPX5 (EN 60335-2-75)		N/A
	- States maximum tilt of appliance for safe operation (EN 60335-2-75)		P
	Instructions for installation of appliances of the professional type (EN 60335-2-75)		N/A
	Instructions for installation of appliances of the supervised type (EN 60335-2-75)		N/A
	Instructions for installation of class I appliances of the professional type (EN 60335-2-75)		N/A
7.12.101	Instructions for maintenance states how to gain access to maintenance area, how to gain access to the maintenance area, how to use the access key and the override key (EN 60335-2-75)		N/A
	Instructions do not include instructions on how to gain access to a service area (EN 60335-2-75)		N/A
7.12.101.1	Instructions for maintenance includes instructions for descaling, cleaning and details for flushing and removal of any residual recommended cleaners, sterilizers or descalers (EN 60335-2-75)		P
	Instructions for maintenance for appliance which is not at least IPX5 (EN 60335-2-75)		N/A
	Instructions for maintenance for appliances incorporating appliance inlet to be immersed in water (EN 60335-2-75)		N/A
7.12.101.2	Instructions for maintenance when using override key (EN 60335-2-75)		N/A
7.12.101.3	Instructions for maintenance having list of accessories (EN 60335-2-75)		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
7.12.101.4	Instructions for maintenance states ambient temperatures and gives details concerning freezing (EN 60335-2-75)		N/A
7.12.101.5	Instructions for maintenance for appliances containing pressurized gas (EN 60335-2-75)		N/A
7.12.101.6	Instructions for maintenance specify suitable types of food and how to ensure hygienic operation (EN 60335-2-75)		N/A
7.12.101.7	Instructions for maintenance for appliances include details for safe handling of food (EN 60335-2-75)		N/A
7.12.102	Instructions state that access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the appliance (EN 60335-2-75)		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring according to the wiring rules		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions stating that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		N/A
	- dimensions of space		N/A
	- dimensions and position of supporting means		N/A
	- distances between parts and surrounding structure		N/A
	- dimensions of ventilation openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	Replacement cord instructions, type Z attachment		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
7.12.6	Caution in the instructions for heating appliances with a non-self-resetting thermal cut-out		P
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		N/A
7.12.8	Instructions for appliances connected to the water mains:		N/A
	- max. inlet water pressure (Pa)		N/A
	- min. inlet water pressure, if necessary (Pa).....		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.13	Instructions and other texts in an official language	English	P
7.14	Marking clearly legible and durable		P
7.15	Marking on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		N/A
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		P
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		P

8	PROTECTION AGAINST ACCESS TO LIVE PARTS		P
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Use of test probe B of EN 61032: no contact with live parts		P
8.1.2	Use of test probe 13 of EN 61032 through openings in class 0 appliances and class II appliances/ constructions: no contact with live parts		P
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of EN 61032: no contact with live parts of visible glowing heating elements		N/A
8.1.4	Accessible part not considered live if:		N/A
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42.4 V		N/A
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0.7 mA		N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 μ F		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μ C		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		N/A
	- built-in appliances		N/A
	- fixed appliances		N/A
	- appliances delivered in separate units		N/A
8.2	Class II appliances and constructions are such that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		P
	Only possible to touch parts separated from live parts by double or reinforced insulation		P
	Probe B of EN 61032 applied in accordance with conditions in 8.1.1 with acceptable results		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
9	STARTING OF MOTOR-OPERATED APPLIANCES		N/A
	Not applicable (EN 60335-2-75)		—
10	POWER INPUT AND CURRENT		P
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	(see appended table)	N/A
	Test for an appliance with one or more rated voltage ranges		N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	N/A
	Test for an appliance with one or more rated voltage ranges		N/A
11	HEATING		P
11.1	No excessive temperatures in normal use		P
11.2	Appliances placed and installed in accordance with instructions (EN 60335-2-75)		P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		N/A
	windings make it difficult to make the necessary connections		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input		P
	Test repeated with appliance supplied at 1.06 times rated voltage when temperature rise limits exceeded in appliances incorporating motors, transformers or electronic circuits, and when power input was lower than the rated power input (EN 60335-2-75)		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage		N/A
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage		N/A
11.7	Operation duration corresponding to the most unfavourable conditions of normal use		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Steady conditions established under normal operation (EN 60335-2-75)		P
11.8	Temperature rises not exceeding values in table 3	(see appended table)	P
	Components in protective electronic circuits tested for the number of cycles specified in 24.1.4		P
	Protective devices did not operate		P
	Sealing compound did not flow out		P
	Temperature rise of the surfaces in user area did not exceed limits for handles, knobs, grips and parts held in short periods only (EN 60335-2-75)		P
	Temperature rise limits of motors, transformers and components of electronic circuits, including parts directly influenced by them, exceeded when appliance operated at 1.15 times the rated power input (EN 60335-2-75)		N/A
11.101	Appliances incorporating refrigerating equipment with motor-compressors that do not comply with IEC 60335-2-34, tested at the following ambient temperatures (EN 60335-2-75):		N/A
	32 °C for temperate countries		N/A
	43 °C for tropical countries		N/A
	Other parts of the appliance operated to produce the most unfavourable conditions in the refrigerating system		N/A
	Temperature of windings and enclosure of motor-compressors did not exceed:		N/A
	140 °C for windings with synthetic insulation		N/A
	130 °C for windings with cellulosic insulation		N/A
	150 °C for external enclosures		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		P
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times rated power input.....:		P
	Motor-operated appliances and combined appliances supplied at 1.06 times rated voltage.....:		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Protective impedance and radio interference filters disconnected before carrying out the tests		N/A
13.2	Leakage current measured by means of the circuit described in figure 4 of IEC 60990		P
	Leakage current measurements	(see appended table)	P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests conducted per table 4	(see appended table)	P
	No breakdown during the tests		P

14	TRANSIENT OVERVOLTAGES		N/A
	Appliances withstand the transient overvoltages to which they may be subjected		N/A
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6		N/A
	No flashover during the test, unless of functional insulation		N/A
	In case of flashover of functional insulation, the appliance complies with clause 19 with the clearance short circuited		N/A

15	MOISTURE RESISTANCE		P
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance		P
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3		N/A
	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29		N/A
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529		N/A
	Appliances of the professional type (IPX3) subjected to test for 5 min (EN 60335-2-75)		N/A
	Appliances, other than IPX0, subjected to tests as specified in IEC 60529		N/A
	Water valves in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test		N/A
	Built-in appliances installed according to the instructions		N/A
	Appliances placed or used on the floor or table placed on a horizontal unperforated support		N/A
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets mounted on a wooden board		N/A
	- For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube		N/A
	- For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube		N/A
	However, for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube		N/A
	Wall-mounted appliances, take into account the distance to the floor stated in the instructions		N/A
	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support		N/A
	For IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min		N/A
	Appliances with type X attachment fitted with a flexible cord as described		N/A
	Detachable parts tested as specified		N/A
15.2	Spillage of liquids does not affect the electrical insulation (EN 60335-2-75)		P
	Electrical insulation not affected by cleaning, disinfecting, descaling and similar operations (EN 60335-2-75)		P
	Water for tests contains approximately 1 % NaCl (EN 60335-2-75)		P
	Overfilling test with additional amount of water, over a period of 1 min (l)..... :	8,3 l	P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Appliances with type X attachment fitted with a flexible cord as described		N/A
	Appliance incorporating an appliance inlet tested with or without a connector, whichever resulted in the most unfavourable condition (EN 60335-2-75)		N/A
	Appliance operated under standby mode before each test , and containers connected to the water mains pre-filled with saline solution (EN 60335-2-75)		N/A
	After each overfilling or application of liquid, appliance withstand electric strength test in 16.3 (EN 60335-2-75)		P
	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in 29 (EN 60335-2-75)		P
	Detachable parts in user area removed or kept in most unfavourable position (EN 60335-2-75)		P
15.2.101	Containers for powdered or granulated ingredients or products filled with dry granulated sugar and an additional quantity equal to 15 % of the total capacity of the container, poured in steadily over 1 min (EN 60335-2-75) (I)		N/A
	Containers intended to be filled outside the appliance replaced without removing any excess sugar from the outside of the container, and lids were replaced after overfilling (EN 60335-2-75)		N/A
15.2.102	Manually filled liquid containers were filled with water and an additional quantity equal to 15 % of the total capacity of each container or 0.25 l, the greater of the two, poured in steadily over 1 min (EN 60335-2-75) (I)		P
15.2.103	Outlets of liquid mixing containers blocked and filled with saline solution and an additional quantity equal to 15 % of total capacity of each container or 0.25 l, the greater of the two, poured in steadily over 15 s (EN 60335-2-75) (I)		N/A
15.2.104	Drains for liquid waste containers blocked and filled with saline solution, and an additional quantity equal to 15 % of total capacity of each container or 0.25 l, the greater of the two, poured in steadily over 15 s (EN 60335-2-75) (I)		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
15.2.105	Drain taps of containers adjusted, in turn, to most unfavourable position, appliance supplied at rated voltage, operated under normal operation until flow of saline solution stabilized (EN 60335-2-75)		N/A
15.2.106	Failure of the inlet valve of appliances connected to the water mains simulated (EN 60335-2-75)		N/A
	Water allowed to flow 1 min after first evidence of overflow , except when the inflow stopped automatically (EN 60335-2-75)		N/A
15.2.107	Appliances dispensing liquid into serving container tested by rapidly pouring 0.5 l of saline solution over the surface where container is filled, transported and removed by user (EN 60335-2-75)		N/A
15.2.108	Appliances other than appliances of the professional type and appliances of the supervised type with accessible openings tested by slowly pouring 0.25 l of saline solution into each opening (EN 60335-2-75)		N/A
	Solution projected towards the opening when the opening was in a vertical surface (EN 60335-2-75)		N/A
15.2.109	Appliances with external surfaces on which it is possible to place a vessel, tested by rapidly pouring 0.5 l of saline solution over surface (EN 60335-2-75)		N/A
	The quantity of saline solution increased to 5 l for appliances of the professional type when their highest surface was lower than 1,5 m (EN 60335-2-75)		N/A
	For professional espresso coffee machines, the amount of water increased to 5 l only when the highest surface after installation was lower than 1,2 m (EN 60335-2-75)		N/A
15.2.110	Appliances delivering pre-packed products tested to simulate leakage from package over any area where the package is stored or transported (EN 60335-2-75)		N/A
	Liquid leakage simulated by rapidly pouring a quantity of saline solution, equal in volume to the largest pre-packed product that can be delivered from the appliance (EN 60335-2-75) (l)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Leakage of dry products simulated by rapidly pouring a quantity of dry granulated sugar, equal in volume to the largest pre-packed product that can be delivered from the appliance, over the area (EN 60335-2-75) (dl)		N/A
15.2.111	Maintenance operations involving the use of liquids carried out three times (EN 60335-2-75)		N/A
15.2.112	Parts liable to be cleaned wiped with a sponge approximately 150 mm x 75 mm x 50 mm saturated with saline solution, and sponge applied approximately 10 s to each surface without appreciable force (EN 60335-2-75)		P
15.2.113	Appliances subject to descaling, descaled 10 times and operated under standby mode in accordance with the instructions for maintenance (EN 60335-2-75)		N/A
15.3	Appliances proof against humid conditions		P
	Humidity test for 48 h in a humidity cabinet		P
	The appliance withstands the tests of clause 16		P
	Electrical parts tested separately since it was not possible to place the appliance in the humidity cabinet (EN 60335-2-75)		P
15.101	Water does not contact live parts nor does it affect the electrical insulation (EN 60335-2-75)		N/A
	Appliance connected to water mains, and pressure adjusted to maximum water pressure marked on the appliance (EN 60335-2-75)		N/A
	Tiltable and movable parts, including lids, placed in the most unfavourable position (EN 60335-2-75)		N/A
	Tap fully opened for 1 min with swivel outlets adjusted to direct the water in the most unfavourable direction (EN 60335-2-75)		N/A
	Appliance withstood the dielectric strength test of 16.3 (EN 60335-2-75)		N/A
15.102	Adequate protection against effects of immersion provided on appliances intended to be partially or completely immersed in water for cleaning (EN 60335-2-75)		N/A
	Following tests conducted on three additional appliances (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Appliance operated in normal conditions at 1.15 times rated power input until the thermostat operated for the first time (EN 60335-2-75)		N/A
	Appliances without a thermostat operated until steady conditions established (EN 60335-2-75)		N/A
	Appliance disconnected from supply with appliance connector withdrawn and immersed in water containing approx. 1 % NaCl with a temperature between 10 °C & 25 °C (EN 60335-2-75) (°C)		N/A
	If marked with the maximum level of immersion, appliance immersed 50 mm deeper than the above level (EN 60335-2-75)		N/A
	After 1 h, appliance removed, dried, and subjected to leakage current test of 16.2 for a total of 5 times (EN 60335-2-75)		N/A
	Appliance withstood dielectric strength test of 16.3 at a voltage specified in Table 4 (EN 60335-2-75)		N/A
	There was no trace of liquid on insulation that could result in a reduction of clearances and creepage distances below the values specified in Clause 29 after the appliance with the highest leakage current was immersed in water 5 times and dismantled for examination (EN 60335-2-75)		N/A
	The remaining two appliances operated under normal conditions for 240 h, and after disconnected from the supply, immersed again for 1 h (EN 60335-2-75)		N/A
	They two samples dried and subjected to the electric strength test of 16.3 at the voltage specified in Table 4 (EN 60335-2-75)		N/A
	No trace of liquid on insulation that could result in reduction of clearances and creepage distances below values in Clause 29 (EN 60335-2-75)		N/A

16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		P
16.1	Leakage current not excessive and electric strength adequate		P
	Protective impedance disconnected from live parts before carrying out the tests		N/A
16.2	Single-phase appliances: test voltage 1.06 times rated voltage.....:		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$:		N/A
	Leakage current measurements		P
	Leakage current limits as specified for stationary class I heating appliances; measurements (EN 60335-2-75)	(see appended table)	P
16.3	Electric strength tests according to table 7	(see appended table)	P
	No breakdown during the tests		P

17	OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS		N/A
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	N/A
	Appliance supplied with 1.06 or 0.94 times rated voltage and the most unfavourable short-circuit or overload likely to occur in normal use applied		N/A
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value in Table 3 by more than 15 K		N/A
	Temperature of the winding not exceeding the value specified in table 8,		N/A
	However limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A

18	ENDURANCE		N/A
	Not applicable (EN 60335-2-75)		N/A

19	ABNORMAL OPERATION		P
19.1	The risk of fire or mechanical damage under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe		P
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		N/A
	Appliances subjected to tests of 19.101 and 19.102 as applicable (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Detachable parts in user area placed in most unfavourable position (EN 60335-2-75)		P
	Detachable parts in the maintenance are placed in their normal position following a maintenance operation (EN 60335-2-75)		P
	Containers filled to the most unfavourable level(EN 60335-2-75)		P
	Appliances provided with control limiting the pressure during tests of Clause 11 tested per 19.4 with the control inoperative (EN 60335-2-75)		N/A
19.2	Test of appliance with heating elements with restricted heat dissipation; test voltage (V): power input of 0.85 times rated power input		P
19.3	Test of 19.2 repeated; test voltage (V): power input of 1.24 times rated power input		P
19.4	Test conditions as in cl. 11, and control limiting the temperature during tests of cl.11 short-circuited		P
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the elements sheath	Thermostat and thermal-Link	P
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		P
	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions		N/A
	The working voltage of the PTC heating element is increased by 5% and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1.5 times working voltage, or until the PTC heating element ruptures		N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or locking moving parts of other appliances		N/A
	Lockedrotor, motor capacitors open-circuited, or short-circuited if required		N/A
	Lockedrotor, capacitors open-circuited one at a time		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Test repeated with capacitors short-circuited one at a time if required		N/A
	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed		N/A
	Other appliances supplied with rated voltage for a period as specified		N/A
	Winding temperatures not exceeding values specified in table 8	(see appended table)	N/A
	Appliance operated under the most unfavourable dispensing cycle for the motor (EN 60335-2-75)		N/A
19.8	Three-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously		N/A
	Winding temperatures not exceeding values as specified	(see appended table)	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 minute		N/A
	During the test, parts did not eject from the appliance		N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 19.11.1		N/A
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8		N/A
	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4		N/A
19.11.1	Before applying the fault conditions a) to f) in 19.11.2, it is checked if circuits or parts of circuit meet both of the following conditions:		N/A
	- the electronic circuit is a low-power circuit that is the maximum power at low-power points does not exceed 15 W according to the tests specified		N/A
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction in other parts of the appliance does not rely on the correct functioning of the electronic circuit		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
19.11.2	Fault conditions applied one at a time, the appliance operated under conditions specified in Clause 11, supplied at the rated voltage, and duration as specified:		N/A
	Fault conditions simulated until steady state conditions established		N/A
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29		N/A
	b) open circuit at the terminals of any component		N/A
	c) short circuit of capacitors, unless they comply with IEC 60384-14		N/A
	d) short circuit of any two terminals of an electronic component, other than integrated circuits. This fault condition is not applied between the two circuits of an optocoupler		N/A
	The fault condition was not applied between the two circuits of an optocoupler		N/A
	e) failure of triacs in the diode mode		N/A
	f) failure of an integrated circuit		N/A
	g) failure of an electronic power switching device		N/A
	All fault conditions above were simulated until steady state conditions established (EN 60335-2-75)		N/A
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to f) of 19.11.2		N/A
	During and after each test the following is checked:		N/A
	- the temperature rise of the windings do not exceed the values specified in table 8		N/A
	- the appliance complies with the conditions specified in 19.13		N/A
	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4		N/A
	If a conductor of a printed board becomes open-circuited, the appliance is considered to have withstood the particular test, provided all three of the following conditions are met:		N/A
	- the material of the printed circuit board withstands the burning test of annex E		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- any loosened conductor does not reduce the clearances or creepage distances between live parts and accessible metal parts below the values specified in cl. 29		N/A
	- the appliance withstands the tests of 19.11.2 with open-circuited conductor bridged		N/A
19.11.4	Appliances having a switch with an off position obtained by electronic disconnection, or		N/A
	A device that can be placed in the stand-by mode,		N/A
	subjected to the tests of 19.11.4.1 to 19.11.4.7		N/A
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, except that		N/A
	- appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena		N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3		N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified		N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N/A
	Earthed heating elements in class I appliances disconnected		N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		N/A
19.11.4.6	The appliance is subjected to Class 3 voltage dips and interruptions according to IEC 61000-4-11		N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduces to a level such that the appliance ceases to respond or a programmable component cease to operate		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	The appliance continues to operate normally or requires a manual operation to restart		N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link,, measured current (A); rated current of the fuse-link (A).....:		N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in Table 9	(see appended table)	P
	Enclosures not deformed to such an extent that compliance with cl. 8 is impaired		P
	If the appliance can still be operated it complies with 20.2		N/A
	Insulation, other than for class III appliance, withstood the electric strength test of 16.3 at the test voltage specified in table 4		P
	- basic insulation		P
	- supplementary insulation.....:		N/A
	- reinforced insulation.....:		P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstanding the electric strength test of 16.3. the test voltage being twice the working voltage		N/A
	The appliance does not undergo a dangerous malfunction, and		N/A
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		N/A
	- did not become operational, or		N/A
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	Liquid (over 80 °C), steam or solid objects not emitted from unexpected places (EN 60335-2-75)		N/A
	After the tests, compliance with 15.1 and 15.2 was impaired (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
19.101	Appliance supplied at rated voltage and operated under normal condition, and a fault condition or unexpected operation likely to occur during use of the appliance introduced (EN 60335-2-75)		N/A
19.102	Appliance incorporating a thermal cut-out of capillary type tested as specified in 19.4 with the capillary tube ruptured (EN 60335-2-75)		P

20	STABILITY AND MECHANICAL HAZARDS		P
20.1	Adequate stability		P
20.1	Tilting test through an angle of 10° (appliance placed on an inclined plane/horizontal plane); appliance does not overturn		P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°		N/A
	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9		N/A
	Test repeated with doors, lids and similar parts in maintenance area placed in the most unfavourable position of use with the appliance tilted to an angle of 5° (EN 60335-2-75)		N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		N/A
	Protective enclosures, guards and similar parts are non-detachable		N/A
	Adequate mechanical strength and fixing of protective enclosures		N/A
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected reclosure		N/A
	Not possible to touch dangerous moving parts with test probe		N/A
	Covers over moving parts having a kinetic energy exceeding 4 J are interlocked so that it is only possible to remove them when the parts are stationary, except when they are only removable with the aid of a tool (EN 60335-2-75)		N/A

21	MECHANICAL STRENGTH		P
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.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying blows to the appliance in accordance with test Ehb of IEC 60068-2-75, spring hammer test, impact energy 0,5 J		P
	If necessary, supplementary or reinforced insulation subjected to the electric strength test of 16.3		N/A
	If necessary, repetition of groups of three blows on a new sample		N/A
	Impact energy of 0.5 J applied in maintenance area (EN 60335-2-75)		P
	Impact energy of 1.0 J applied in user area (EN 60335-2-75)		N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		N/A
	The insulation is tested as specified, unless		N/A
	- the thickness of supplementary insulation is at least 1 mm and reinforced is at least 2 mm		N/A
	The insulation raised to the temperature measured during the test of Clause 11 scratched by means of a hardened steel pin by making two parallel scratches and two scratches at 90° to the first pair without crossing them		N/A
	When test fingernail of Fig. 7 applied to the scratched surface with a force of approx. 10 N no further damage, such as separation of the material occurred and the insulation withstood the dielectric strength test of 16.3		N/A
	The hardened steel pin applied perpendicularly with a force of 30 N ± 0.5 N to an unscratched part of the surface and the insulation withstood the electric strength test of 16.3 with the pin still applied and used as one of the electrodes.		N/A
22	CONSTRUCTION		P
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled		N/A
22.2	Stationary appliance: means to provide all-pole disconnection from the supply provided, the following means being available:		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- a supply cord fitted with a plug		P
	- a switch complying with 24.3		N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided		N/A
	- an appliance inlet		N/A
	Single-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase permanently connected class I appliances, connected in the phase conductor		N/A
22.3	Appliance provided with pins no undue strain on socket-outlets		N/A
	Applied torque not exceeding 0.25 Nm		N/A
	Pull force of 50N to each pin after the appliance being placed in the heating cabinet ; when cooled to room temperature, the pins are not displaced by more than 1mm		N/A
	Each pin subjected to a torque of 0.4Nm; the pins are not rotating unless rotating does not impair compliance with the standard		N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets		N/A
22.5	No risk of electric shock when touching the pins of the plug, for appliances having a capacitor with rated capacitance exceeding 0,1μF, the appliance being disconnected from the supply at the instant of voltage peak		P
	Appliance intended to be connected to the supply mains by means of a plug constructed such that in normal use there is no risk of electric shock from charged capacitors when the pins of the plug are touched		P
	Appliance supplied at rated voltage with the switch in off position and the appliance disconnected from the supply mains at the instant of voltage peak		P
	One second after disconnection, the voltage between the pins of the plug measured with an instrument that did not, appreciably, affect the measured value		P
	Voltage did not exceed 34 V(V)..... :		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
22.6	Electrical insulation not affected by condensing water or leaking liquid		P
	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak		N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices		N/A
	Pressure relief device constructed such that it cannot be rendered inoperative or set to a higher pressure without the aid of a tool available only to the manufacturer (EN 60335-2-75)		N/A
	Appliance incorporating pressurized systems subjected to the following test (EN 60335-2-75)		N/A
	All pressure regulating devices rendered inoperative and the system filled with water (EN 60335-2-75)		N/A
	The pressure raised hydraulically until the pressure relief device operated (EN 60335-2-75)		N/A
	Pressure did not exceed 1.2 times rated pressure and the appliance was capable of further use (EN 60335-2-75)		N/A
	Pressure relief device rendered inoperative, and pressure raised 2 x rated pressure for 5 min (EN 60335-2-75)		N/A
	No rupture and no permanent deformation (EN 60335-2-75)		N/A
	There was no hazard when an intentionally weak part allowed to rupture after the pressure attained 1,5 times the rated pressure (EN 60335-2-75)		N/A
	The weak part replaced and test repeated, and the rupture occurred in the same way (EN 60335-2-75)		N/A
	Appliance withstood electric strength test of 16.3 (EN 60335-2-75)		N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use		N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances		P
	Adequate insulating properties of oil or grease to which insulation is exposed		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance		P
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	- they are voltage maintained		P
	Location or protection of reset buttons of non-self-resetting controls is so that accidental resetting is unlikely		P
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		P
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		P
	Tests as described		P
22.12	Handles, knobs etc. fixed in a reliable manner		P
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		P
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		P
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operators hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		P
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		P
	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance		P
	Requirement applied in the maintenance area to parts liable to be touched during maintenance operations (EN 60335-2-75)		N/A
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts		N/A
	Cord reel tested with 6000 operations, as specified		N/A
	Electric strength test of 16.3, voltage of 1000 V applied		N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner		N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion in normal conditions of use		P
22.19	Driving belts not used as electrical insulation		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless material used is non-corrosive, non-hygroscopic and non-combustible		P
	Compliance is checked by inspection and, if necessary, by appropriate test		P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated	No such material	P
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	No such material	P
22.22	Appliance does not contain asbestos	No such material	P
22.23	Oils containing polychlorinated biphenyl (PCB) not used	No such material	P
22.24	Bare heating elements adequately supported		N/A
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A
22.25	Sagging heating conductors cannot come into contact with accessible metal parts		N/A
22.26	The insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation		N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation		N/A
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water separated from live parts by double or reinforced insulation		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or		N/A
	- so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		P
22.31	Clearances and creepage distances over supplementary and reinforced insulation not reduced below values specified in clause 29 as a result of wear		N/A
	Clearances and creepage distances between live parts and accessible parts not reduced below values for supplementary insulation, if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation designed or protected against deposition of dirt or dust		P
	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2		N/A
	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation		N/A
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A
	Insulating material in which heating conductors are embedded considered to be basic insulation and not reinforced insulation		N/A
22.33	Conductive liquids that are or may become accessible in normal use are not in direct contact with live parts		P
	Electrodes not used for heating liquids		P
	For class II constructions, conductive liquids that are or may become accessible in normal use, not in direct contact with basic or reinforced insulation		N/A
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Ingredients and products have not direct contact with live parts or for class II constructions, with basic insulation (EN 60335-2-75)		N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless the shaft is not accessible when the part is removed		P
22.35	Handles, levers and knobs, held or actuated in normal use, not becoming live in the event of an insulation fault		P
	Such parts being of metal and their shafts or fixings are likely to become live in the event of an insulation fault, they are either adequately covered by insulation material, or their accessible parts are separated from their shafts or fixings by supplementary insulation		P
	This requirement not applied to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
22.36	Handles continuously held in the hand in normal use are so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless they are separated from live parts by double or reinforced insulation		N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts, unless complying with Clause 22.42		N/A
	Metal casings of capacitors in Class II appliances separated from accessible metal parts by supplementary insulation, unless complying with 22.42		N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out		N/A
22.39	Lamp holders used only for the connection of lamps		N/A
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch is easily visible and accessible		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Unless the appliance can operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch. The actuating member of the switch being easily visible and accessible.		N/A
22.41	No components, other than lamps, containing mercury		P
22.42	Protective impedance consisting of at least two separate components		N/A
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur		N/A
22.44	Appliances does not have an enclosure that is shaped or decorated like a toy		P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.4 due to deformation as a result of an external force applied to the enclosure		P
22.46	Software used in protective electronic circuits is software class B or C		N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use		N/A
	No leakage from any part, including any inlet water hose		N/A
22.48	Appliances connected to the water mains constructed to prevent back siphonage of non-potable water		N/A
22.101	It is not possible to render an interlock inoperative without using override key (EN 60335-2-75)		N/A
	Appliance examined, subjected to manual test, and EN 61032 test probe B applied (EN 60335-2-75)		N/A
22.102	Access to service area is not possible using only the access key for maintenance area (EN 60335-2-75)		N/A
	Appliance examined and subjected to manual tests (EN 60335-2-75)		N/A
22.103	Means provided to prevent scalding by steam when a lid is opened (EN 60335-2-75)		N/A
	Tests of Clause 19 conducted (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
22.104	Means provided to prevent contamination of dispensed products by substances such as lubricants and debris (EN 60335-2-75)		N/A
22.105	It is not possible to open draw-off taps and drain valves, or to withdraw drain plugs inadvertently as verified by examination and manual tests (EN 60335-2-75)		P
22.106	Coin boxes and containers positioned or protected so that overfilling cannot cause hazard (EN 60335-2-75)		N/A
22.107	Appliance connected to water mains constructed for a static water pressure not less than 0.6 MPa (EN 60335-2-75)		N/A
22.108	Moisture, grease and products used in appliance do not accumulate to affect clearance and creepage distances (EN 60335-2-75)		P
22.109	Warning lights against a hazard colored red only (EN 60335-2-75)		N/A
22.110	Pressurized container's lid cannot be removed while the pressure within the container is excessive, and means provided to release the pressure to a value such that the lid can be removed without risk (EN 60335-2-75)		N/A
	Appliance operated per Clause 11 until pressure regulator operated for the first time (EN 60335-2-75)		N/A
	Appliance disconnected from the supply and pressure decreased to 4 kPa (EN 60335-2-75)		N/A
	It was not possible to remove the lid upon application of a 100 N force to the most unfavourable point where the lid or its handle can be gripped (EN 60335-2-75)		N/A
	There was no hazardous displacement of the lid when it was released after internal pressure was gradually reduced while maintaining the 100 N force (EN 60335-2-75)		N/A
	The lid secured by screw clamps or other devices ensuring the pressure is automatically reduced in a controlled manner before the lid can be removed exempted from this test (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
22.111	Means provided to prevent the dispensing of food when it has been adversely affected by storage or process temperatures in an appliance dispensing potentially hazardous food (EN 60335-2-75)		N/A
22.112	Surfaces of food areas and splash areas are cleanable, and unwanted matter can be removed (EN 60335-2-75)		N/A
	Food areas can be disinfected when necessary as verified by operating the appliance as in normal use, and cleaning and disinfecting it according to the instructions for maintenance (EN 60335-2-75)		N/A
22.113	Means provided to prevent retention of moisture, unwanted matter, and the ingress of vermin in non-food areas not adequately separated from food areas of an appliance that dispenses food (EN 60335-2-75)		N/A
	The surfaces of the non-food areas are cleanable in accordance with 22.112 when retention of moisture, unwanted matter, and the ingress of vermin are unavoidable (EN 60335-2-75)		N/A

23	INTERNAL WIRING		P
23.1	Wireways smooth and free from sharp edges		P
	Wires protected against contact with burrs, cooling fins, etc.		P
	Wire holes in metal well rounded or provided with bushings		P
	Wiring, effectively, prevented from coming into contact with moving parts		P
23.2	Beads etc. on live wires cannot change their position , and are not resting on sharp edges or corners		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
	Flexible metallic tubes not causing damage to insulation of conductors		N/A
	Open-coil springs not used		N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	No damage after 10 000 flexings for conductors flexed during normal use or 100 flexings for conductors flexed during user maintenance		N/A
	200 000 flexings for conductors flexed during normal use (EN 60335-2-75)		N/A
	10 000 flexings for conductors flexed during maintenance operations (EN 60335-2-75)		N/A
	Electric strength test, 1000 V between live parts and accessible metal parts		N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring withstanding the electrical stress likely to occur in normal use		P
	No breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by positive means		N/A
23.7	The color combination green/yellow used only for earthing conductors		P
23.8	Aluminium wires not used for internal wiring		P
23.9	No lead-tin soldering of stranded conductors where they are subject to contact pressure, unless		N/A
	- clamping means so constructed that there is no risk of bad contact due to cold flow of the solder		N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (code 60227 IEC 52)		N/A
23.101	Anchorage for internal wiring that can easily be replaced are constructed and located as follows (EN 60335-2-75):		N/A
	- wiring cannot touch the clamping screws of the anchorage when the screws are accessible, except when separated from accessible metal parts by supplementary insulation (EN 60335-2-75)		N/A
	- wiring is not clamped by a metal screw bearing directly on the wiring (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- for Class I appliances, the anchorages are of insulating material or provided with insulating lining, except when failure of the insulation of the wiring does not make accessible metal parts live (EN 60335-2-75)		N/A
	- Anchorages of class II appliances are of insulating material, or when made of metal, insulated from accessible metal parts by supplementary insulation (EN 60335-2-75)		N/A
23.102	Internal wiring accessible in the maintenance area and is moved during normal operation complies with 25.13, 25.14, 25.15 and 25.21 as verified by relevant tests (EN 60335-2-75)		P

24	COMPONENTS		P
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components	(see appended table)	P
	Components not tested and found to comply with relevant IEC standard for the number of cycles specified are tested in accordance with 24.1.1 to 24.1.9		P
	Components not tested and found to comply with relevant IEC standard components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Lampholders and starterholders not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N/A
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14, or		N/A
	- tested according to annex F		N/A
24.1.2	Safety isolating transformers complying with IEC 61558-2-6, or		N/A
	- tested according to annex G		N/A
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000, or		N/A
	- tested according to annex H		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
24.1.4	Automatic controls comply with IEC 60730-1 with relevant part 2. The number of cycles of operation being:		P
	- thermostats: 10 000		P
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 300		N/A
	- voltage maintained non-self-resetting thermal cut-outs: 1 000		N/A
	- other non-self-resetting thermal cut-outs: 30		N/A
	- timers: 3 000		N/A
	- energy regulators: 10 000		N/A
	Thermal motor protectors were tested in combination with their motor under conditions in Annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for sub-clause 6.5.2 of IEC 60730-2-8 is IPX7		N/A
24.1.5	Appliance couplers complying with IEC 60320-1		N/A
	If appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A
	Appliance couplers incorporating thermostats, thermal cut-outs or fuses in connector comply with IEC 60320-1 (EN 60335-2-75)		N/A
	Interconnection couplers comply with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		N/A
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		N/A
24.1.8	The relevant standard for thermal links is IEC 60691. Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
24.1.9	Relays, other than motor starting relays, tested as part of the appliance		N/A
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of operations in 24.1.4 selected according to the relay function in the appliance:		N/A
24.2	No switches or automatic controls in flexible cords		P
	No devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	No thermal cut-outs that can be reset by soldering		P
	Switches and automatic controls operating at safety extra-low voltage fitted in interconnection cords in maintenance area (EN 60335-2-75)		N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly		N/A
	Voltage across capacitors in series with a motor winding does not exceed 1.1 times rated voltage, when the appliance is supplied at 1.1 times rated voltage under minimum load		N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42V.		N/A
	In addition, the motors are complying with the requirements of Annex I		N/A
24.7	Hose-sets for connection of appliances to the water mains, complying with IEC 61770 and supplied with the appliance		N/A
24.101	Connecting devices of interconnection cords identified when they are interchangeable and can result in a hazard (EN 60335-2-75)		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
24.102	Interlock switches comply with IEC 61058-1 to the reasonable extent and ensure all-pole disconnection (EN 60335-2-75)		N/A
	Single-pole disconnection permitted for protection against mechanical hazards (EN 60335-2-75)		N/A
	Switch tested in accordance with the relevant clauses of IEC 61058-1 (EN 60335-2-75)		N/A
	Number of cycles of operation for the test of Clause 17 was 10 000 (EN 60335-2-75)		N/A
	- 100 000 cycles of operation for a switch operating once per delivery (EN 60335-2-75)		N/A
24.103	Thermal cut-outs are not self-resetting with trip-free mechanism when they disconnect heating elements or motors (EN 60335-2-75)		P
	Manual test conducted to verify compliance (EN 60335-2-75)		P

25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		P
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		P
	- supply cord fitted with a plug		P
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance		N/A
	- pins for insertion into socket-outlets		N/A
25.2	Appliance not provided with more than one means of connection to the supply mains		P
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown		N/A
25.3	Connection of supply conductors for appliance intended to be permanently connected to fixed wiring possible after the appliance has been fixed to its support		N/A
	Appliance provided with a set of terminals for the connection of cables or fixed wiring, cross-sectional areas specified in 26.6		N/A
	Appliance provided with a set of terminals allowing the connection of a flexible cord		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
	Appliance provided with a set of supply leads accommodated in a suitable compartment		N/A
	Appliance provided with a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate type of cable or conduit		N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimensions according to table 10		N/A
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in 29		N/A
25.5	Method for assemble supply cord with the appliance:		P
	- type X attachment		N/A
	- type Y attachment		P
	- type Z attachment, if allowed in part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
25.6	Plugs fitted with only one flexible cord		P
25.7	Supply cords being one of the following types:		P
	- rubber sheathed (at least 60245 IEC 53)		N/A
	- polychloroprene sheathed (at least 60245 IEC 57)		N/A
	- cross-linked polyvinyl chloride sheathed (at least 60245 IEC 87)		N/A
	Polyvinyl chloride sheathed: Not used if they are likely to touch metal parts having a temperature rise exceeding 75K during the test of Clause 11		N/A
	- light polyvinyl chloride sheathed cord (at least 60227 IEC 52), appliances not exceeding 3 kg		N/A
	- ordinary polyvinyl chloride sheathed cord (at least 60227 IEC 53), other appliances		P
	Heat resistant polyvinyl chloride sheathed: Not used for type X attachment other than specially prepared cords.		N/A
	- Heat-resistant light polyvinyl chloride sheathed cord (at least 60227 IEC 56), appliances not exceeding 3 kg		N/A
	- heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), other appliances		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Supply cords of appliances intended for outdoor use are polychloroprene sheathed and not lighter than ordinary polychloroprene sheathed cord (code designation 60245 IEC 57) (EN 60335-2-75)		N/A
25.8	Nominal cross-sectional area of supply cords according to table 11; rated current (A); cross-sectional area (mm ²).....:		P
25.9	Supply cord not in contact with sharp points or edges		P
25.10	Green/yellow core for earthing purposes in Class I appliance		P
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless		P
	clamping means so constructed that there is no risk of bad contacts due to cold flow of the solder		N/A
25.12	Moulding the cord to part of the enclosure does not damage the insulation of the supply cord		N/A
25.13	Inlet opening so shaped as to prevent damage to the supply cord		P
	Unless the enclosure at the inlet opening is of insulation material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		N/A
	If unsheathed supply cord, a similar additional bushing or lining is required, unless		N/A
	- the appliance is class 0		N/A
25.14	Supply cords adequately protected against excessive flexing		N/A
	Flexing test:		N/A
	- applied force (N)		N/A
	- number of flexings		N/A
	The test does not result in:		N/A
	- short circuit between the conductors		N/A
	- breakage of more than 10% of the strands of any conductor		N/A
	- separation of the conductor from its terminal		N/A
	- loosening of any cord guard		N/A
	- damage, within the meaning of the standard, to the cord or the cord guard		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- broken strands piercing the insulation and becoming accessible		N/A
25.15	Conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		P
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		P
	Pull and torque test of supply cord, values shown in table 12: pull (N); torque (not on automatic cord reel) (Nm).....:		P
	Max. 2 mm displacement of the cord		P
	Test conducted on internal wiring using the following test parameters; pull force 30 N, torque 0,1 Nm, and push force 30 N (EN 60335-2-75)		P
25.16	Cord anchorages for type X attachments constructed and located so that:		N/A
	- replacement of the cord is easily possible		N/A
	- it is clear how the relief from strain and the prevention of twisting are obtained		N/A
	- they are suitable for different types of cord		N/A
	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless separated from accessible metal parts by supplementary insulation		N/A
	- the cord is not clamped by a metal screw which bears directly on the cord		N/A
	- at least one part of the cord anchorage securely fixed to the appliance, unless part of a specially prepared cord		N/A
	- screws which have to be operated when replacing the cord do not fix any other component, if applicable		N/A
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
	- for Class 0, 0I and I appliances: they are of insulating material or are provided with an insulating lining, unless a failure of the insulation of the cord does not make accessible metal parts live		N/A
	- for Class II appliances: they are of insulating material, or if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals		N/A
25.17	Adequate cord anchorages for type Y and Z attachment		P
25.18	Cord anchorages only accessible with the aid of a tool, or		P
	- so constructed that the cord can only be fitted with the aid of a tool		N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances		N/A
	Tying the cord into a knot or tying the cord with string not used		N/A
25.20	Conductors of the supply cord for type Y and Z attachment adequately additionally insulated		P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed to permit checking of conductors with respect to correct positioning and connection before fitting any cover, no risk of damage to the conductors when fitting the cover, no contact with accessible metal parts if a conductor becomes loose, etc.		N/A
	For portable appliances, the uninsulated end of a conductor prevented from any contact with accessible metal parts, unless the end of the cord is such that the conductors are unlikely to slip free		N/A
25.22	Appliance inlet:		N/A
	- live parts not accessible during insertion or removal		N/A
	- connector can be inserted without difficulty		N/A
	- the appliance is not supported by the connector		N/A
	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless the supply cord is not likely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except as specified		N/A
	If necessary, electric strength test of 16.3		N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
25.25	Dimensions of pins compatible with the dimensions of the relevant socket-outlet. Dimensions of pins and engagement face in accordance with the relevant plug in IEC 60083		N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS		N/A
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors		N/A
	Terminals only accessible after removal of a non-detachable cover		N/A
	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		N/A
26.2	Appliances with type X attachment and appliances for connection to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless the connections are soldered		N/A
	Screws and nuts serve only to clamp supply conductors, except		N/A
	- internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N/A
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone		N/A
	Soldering alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free at the soldered joint		N/A
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor		N/A
	Terminals for type X attachment and those for connection to fixed wiring so fixed that when tightening or loosening the clamping means:		N/A
	- the terminal does not loosen		N/A
	- internal wiring is not subjected to stress		N/A
	- clearances and creepage distances are not reduced below the values in 29		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Compliance checked by inspection and by the test of sub-clause 8.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified. Nominal diameter of thread (mm); screw category; torque (Nm)		N/A
26.4	Terminals for type X attachment, except those with a specially prepared cord, and those for connection to fixed wiring, no special preparation of conductors required, and so constructed or placed that conductors prevented from slipping out		N/A
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard		N/A
	Stranded conductor test, 8 mm insulation removed		N/A
	No contact between live parts and accessible metal parts and, for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only		N/A
26.6	Terminals for type X attachment and for connection to fixed wiring suitable for connection of conductors with required cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm ²).....		N/A
	Terminals only suitable for a specially prepared cord		N/A
26.7	Terminals for type X attachment accessible after removal of a cover or part of the enclosure		N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other		N/A
26.9	Terminals of the pillar type constructed and located as specified		N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless conductors ends fitted with a device suitable for screw terminals		N/A
	Pull test of 5 N to the connection		N/A
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used		N/A
	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	For Class II appliances: soldering, welding or crimping alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free		N/A
27	PROVISION FOR EARTHING		N/A
27.1	Accessible metal parts of Class 0I and I appliances, permanently and reliably connected to an earthing terminal or contact of the appliance inlet		N/A
	Earthing terminals not connected to neutral terminal		N/A
	Class 0, II and III appliance have no provision for earthing		N/A
	Safety extra-low voltage circuits not earthed, unless protective extra-low voltage circuits		N/A
27.2	Clamping means adequately secured against accidental loosening		N/A
	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and		N/A
	- do not provide earthing continuity between different parts of the appliance		N/A
	Conductors cannot be loosened without the aid of a tool		N/A
	Stationary Class I appliance of professional type installed in kitchens incorporates terminal for connection of external equipotential bonding conductor (EN 60335-2-75)		N/A
	The terminal connects to all accessible metal parts and allows connection of a conductor having a nominal cross-sectional area of 2,5 mm ² to 10 mm ² (EN 60335-2-75)		N/A
	Conductor can be located and connected after installation of the appliance (EN 60335-2-75)		N/A
27.3	For detachable parts that are plugged into another part of the appliance, and having an earth connection, the earth connection made before and separated after current-carrying connections when removing the part		N/A
	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
27.4	No risk of corrosion resulting from contact between metal of earthing terminal and other metal		N/A
	Adequate resistance to corrosion of coated or uncoated parts providing earthing continuity, other than parts of a metal frame or enclosure		N/A
	Parts of steel providing earthing continuity provided at the essential areas with an electroplated coating, thickness at least 5 μm		N/A
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		N/A
	In case of aluminium alloys precautions taken to avoid risk of corrosion		N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts		N/A
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided that clearances of basic insulation are based on the rated voltage of the appliance		N/A
	Resistance not exceeding 0.1 Ω at the specified low-resistance test		N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances		N/A
	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit		N/A
28	SCREWS AND CONNECTIONS		P
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		P
	Screws not of soft metal liable to creep, such as zinc or aluminium		P
	Diameter of screws of insulating material min. 3 mm		N/A
	Screws of insulating material not used for any electrical connection or connections providing earthing continuity		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Screws used for electrical connections or connections providing earthing continuity screw into metal		P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		P
	Type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw can impair basic insulation		N/A
	For screws and nuts; test as specified	(see appended table)	P
	Screws which may be removed during maintenance operations (EN 60335-2-75)		P
	Screws likely to be tightened during maintenance operations (EN 60335-2-75)		P
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure not transmitted through insulating material liable to shrink or distort, unless shrinkage or distortion compensated		P
	This requirement does not apply to electrical connections in circuits carrying a current not exceeding 0.5A		P
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together		P
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread		P
	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer		P
	Thread-cutting, thread rolling and space threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection:		P
	- in normal use,		P
	- during user maintenance,		P
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	At least two screws being used for each connection providing earthing continuity, unless		P
	- the screw forms a thread having a length of at least half the diameter of the screw		N/A
	Thread-cutting and space-threaded screws used in connections providing earthing continuity as long as it is unnecessary to disturb the connection in normal use and at least 2 screws are used for each connection		P
	Screws operated by maintenance person (EN 60335-2-75)		P
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity		P
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if subjected to torsion		P

29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		P
	Clearances, creepage distances and solid insulation withstand electrical stress		N/A
	For coatings used on printed circuits boards to protect the microenvironment (Type A) or to provide basic insulation (Type B), annex J applies		N/A
	The microenvironment is pollution degree 1 under Type 1 coating		N/A
	No clearance or creepage distance requirements under Type 2 coating		N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless		P
	- for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		P
	However, if the construction is affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0.5 mm and the impulse voltage test is not applicable		P
	Impulse voltage test not applicable:		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- when the microenvironment is pollution degree 3		N/A
	- for basic insulation of class 0 and class 01 appliances		N/A
	Appliances are in overvoltage category II		P
	Clearances less than specified in table 16 not allowed for basic insulation of class 0 and class 01 appliances, or		P
	- if pollution degree 3 is applicable		N/A
	Compliance is checked by inspection and measurements as specified		P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1.0 mm if the microenvironment is pollution degree 1		P
	Lacquered conductors of windings assumed to be bare conductors		N/A
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16		P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, but using the next higher step for rated impulse voltage		P
29.1.4	For functional insulation, the values of table 16 are applicable, unless		P
	- the appliance complies with clause 19 with the functional insulation short-circuited		P
	Lacquered conductors of windings considered to be bare conductors		P
	However, clearances at crossover points are not measured		P
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A
29.1.5	Appliances having higher working voltage than rated voltage, the voltage used for determining clearances from table 16 is the sum of the rated impulse voltage and the difference between the peak value of the working voltage and the peak value of the rated voltage		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage		N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation based on the working voltage used as the rated voltage in Table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree		P
	Pollution degree 2 applies, unless		P
	- precautions taken to protect the insulation; pollution degree 1,		N/A
	- insulation subjected to conductive pollution; pollution degree 3		N/A
	Compliance is checked by inspection and measurements as specified		P
	Pollution degree 3 applied for microenvironment, except when it is unlikely to be exposed to pollution during normal use due to (EN 60335-2-75):		N/A
	- condensation produced by the appliance (EN 60335-2-75) ;		N/A
	- use of liquids and solids, such as ingredients, products or cleaning agents (EN 60335-2-75)		P
29.2.1	Creepage distances of basic insulation not less than specified in table 17		P
	For pollution degree 1, creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14		N/A
29.2.2	Creepage distances of supplementary insulation at least as specified for basic insulation in table 17		P
29.2.3	Creepage distances of reinforced insulation at least double as specified for basic insulation in table 17		P
29.2.4	Creepage distances of functional insulation not less than specified in table 18		P
	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
29.3	Supplementary and reinforced insulation having adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		P
	Compliance checked by::		P
	- measurement, in accordance with 29.3.1, or		P
	- an electric strength test in accordance with 29.3.2, or		N/A
	- an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3		N/A
29.3.1	Supplementary insulation having a thickness of at least 1 mm		P
	Reinforced insulation having a thickness of at least 2 mm		P
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation		N/A
	Supplementary insulation consisting of at least 2 layers		N/A
	Reinforced insulation consisting of at least 3 layers		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A
	If the temperature rise during the tests of Clause 19 does not exceed the value specified in Table 3, the test of IEC 60068-2-2 is not carried out		N/A

30	RESISTANCE TO HEAT AND FIRE		P
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	thermoplastic material providing supplementary or reinforced insulation,		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2	(see appended table)	P
	External parts: at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Parts supporting live parts: at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125°C, whichever is the higher; temperature (°C).....:		N/A
	Parts of thermoplastic material providing supplementary or reinforced insulation, 25°C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)		N/A
30.2	Parts of non-metallic material adequately resistant to ignition and spread of fire		P
	This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		P
	Compliance checked by the test of 30.2.1. In addition:		P
	- attended appliances, 30.2.2 applies		N/A
	- unattended appliances, 30.2.3 applies		P
	Appliances for remote operation, 30.2.3 applies		N/A
	Base material of printed circuit board, 30.2.4 applies		N/A
30.2.1	Glow-wire test of IEC 60695-2-11 at 550 °C, unless		P
	- the material is classified at least HB40 according to IEC 60695-11-10		N/A
	Parts for which the glow-wire test cannot be carried out meet the requirements in ISO9772 for category FH3 material		N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and parts of non-metallic material within a distance of 3mm of such connections, are subjected to the glow-wire test of IEC 60695-2-11		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	-750°C, for connections carrying a current exceeding 0,5A during normal operation		N/A
	-650°C, for other connections		N/A
	Test as specified for an interposed shielding material		N/A
	When the glow-wire test of IEC 60695-2-11 is carried out, the temperatures are:		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	-750°C, for connections carrying a current exceeding 0,5A during normal operation		N/A
	-650°C, for other connections		N/A
	Test not applicable to conditions as specified		N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		N/A
	Test not applicable to conditions as specified		N/A
30.2.3.1	Parts of insulating material supporting connections carrying a current exceeding 0.2 A during normal operation, and		N/A
	- parts of non-metallic material within a distance of 3mm,		N/A
	- subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850°C		N/A
	Glow-wire test not carried out on parts of material classified as having a glow-wire flammability index of at least 850°C according to IEC 60695-2-12		N/A
	Glow-wire test not carried out on small parts that comply with the needle-flame test of Annex E or on small parts of material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	Test as specified for an interposed shielding material		N/A
30.2.3.2	Parts of non-metallic material supporting current-carrying connections, and		P
	- parts of non-metallic material within a distance of 3mm,		N/A
	- subjected to glow-wire test of IEC 60695-2-11		N/A
	Test not carried out on material having a glow-wire ignition temperature per IEC 60695-2-13 at least		N/A
	-775°C, for connections carrying a current exceeding 0,2A during normal operation		N/A
	-675°C, for other connections		N/A
	When the glow-wire test of IEC 60695-2-11 is carried out, the temperatures are:		N/A
	-750°C, for connections carrying a current exceeding 0,2A during normal operation		N/A
	-650°C, for other connections		N/A
	Parts that during the test produce a flame persisting longer than 2 s, tested as specified		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	If a flame persists longer than 2 s during the test, parts above the connection, as specified, subjected to the needle-flame test of annex E, unless		N/A
	- the material is classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to needle-flame test of annex E		N/A
	Test not applicable to conditions as specified		N/A
31	RESISTANCE TO RUSTING		P
	Relevant ferrous parts adequately protected against rusting		P
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		P
	Appliance does not emit harmful radiation, present a toxic or similar hazard due to their operation in normal use		P
	Relevant tests specified in part 2, if necessary		P
A	ANNEX A (INFORMATIVE) - ROUTINE TESTS		N/A
	Description of routine tests to be carried out by the manufacturer		N/A
AA	ANNEX AA (NORMATIVE) - AGEING TEST FOR ELASTOMERIC PARTS (EN 60335-2-75)		N/A
	The aging test on elastomeric parts conducted by measuring their hardness and mass before and after immersion in water at elevated temperature		N/A
	Tests conducted on at least three samples of each part		N/A
	Sample selection and test procedure was as specified in ISO 1817 with the following modifications		N/A
4	Test carried out with water		N/A
5	Test pieces		N/A
	Test pieces conditioned at 23 °C ± 2 °C and the relative humidity of (50 ± 5) %		N/A
6	Immersion in the test liquid		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
6.1	Water heated to a temperature of 75 ^(+5/-0) °C within 1 h with the test pieces immersed and maintained at this value (water at 75 ^(+5/-0) °C added to compensate for evaporation)		N/A
6.2	Test pieces immersed for a total period of 48 ^(+1/-0) h		N/A
7	Test pieces were then immediately immersed in fresh water maintained at ambient temperature, and the pieces immersed for 45 min ± 15 min.		N/A
	Test pieces dried with blotting paper after removal from water		N/A
7.2	Increase in mass did not exceed 10 % of the value determined before immersion (g)..... :		N/A
7.6	Micro-test for hardness applied		N/A
	Hardness was not changed more than 8 IRHD, no sticky surface; no visible crack, to the naked eye, and no other deterioration (IRHD) :		N/A

B	ANNEX B (NORMATIVE) - APPLIANCES POWERED BY RECHARGEABLE BATTERIES		N/A
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		N/A
	This annex does not apply to battery chargers		N/A
3.1.9	Appliance operated under the following conditions:		N/A
	-the appliance, supplied by its fully charged battery, operated as specified in relevant part 2		N/A
	-the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		N/A
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		N/A
	If the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed		N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
5.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances		N/A
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage and polarity of the terminals		N/A
7.12	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information		N/A
	Details about how to remove batteries containing materials hazardous to the environment given		N/A
7.15	Markings placed on the part of the appliance connected to the supply mains		N/A
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment		N/A
	If the appliance can be operated without batteries, double or reinforced insulation required		N/A
11.7	The battery is charged for the period described		N/A
19.1	Appliances subjected to tests of 19.101, 19.102 and 19.103		N/A
19.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged		N/A
19.102	Short-circuiting of the terminals of the battery, being fully charged, for appliances having batteries that can be removed without the aid of a tool		N/A
19.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction		N/A
21.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength, checked according to procedure 2 of IEC 68-2-32		N/A
	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-32, the number of falls being:		N/A
	- 100, the mass of part does not exceed 250 g		N/A
	- 50, the mass of part exceeds 250 g		N/A
	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met		N/A
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
25.13	An additional lining or bushing not required for interconnection cords operating at safety extra-low voltage		N/A
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies		N/A
	For other parts, 30.2.2 applies		N/A
C	ANNEX C (NORMATIVE) - AGEING TEST ON MOTORS		N/A
	Tests, as described, carried out when in doubt with regard to the temperature classification of the insulation of a motor winding		N/A
D	ANNEX D (NORMATIVE) - THERMAL MOTOR PROTECTORS		N/A
	Applicable to appliances having motors that incorporate thermal motor protectors		N/A
E	ANNEX E (NORMATIVE) - NEEDLE-FLAME TEST		N/A
	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:		N/A
7	Severities		N/A
	The duration of application of the test flame is 30 s ± 1 s		N/A
9	Test procedure		N/A
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1		N/A
9.2	The first paragraph does not apply		N/A
	If possible, the flame is applied at least 10 mm from a corner		N/A
9.3	The test is carried out on one specimen		N/A
	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test		N/A
11	Evaluation of test results		N/A
	The duration of burning not exceeding 30 s		N/A
	However, for printed circuit boards, the duration of burning not exceeding 15 s		N/A
F	ANNEX F (NORMATIVE) - CAPACITORS		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following modified clauses of IEC 60384-14		N/A
1.5	Terminology		N/A
1.5.3	Class X capacitors tested according to subclass X2		N/A
1.5.4	This sub-clause is applicable		N/A
1.6	Marking		N/A
	Items a) and b) are applicable		N/A
3.4	Approval testing		N/A
3.4.3.2	Table II is applicable as described		N/A
4.1	Visual examination and check of dimensions		N/A
	This sub-clause is applicable		N/A
4.2	Electrical tests		N/A
4.2.1	This sub-clause is applicable		N/A
4.2.5	This sub-clause is applicable		N/A
4.2.5.2	Only table IX is applicable		N/A
	Values for test A apply		N/A
	However, for capacitors in heating appliances the values for test B or C apply		N/A
4.12	Damp heat, steady state		N/A
	This sub-clause is applicable		N/A
	Only insulation resistance and voltage proof are checked		N/A
4.13	Impulse voltage		N/A
	This sub-clause is applicable		N/A
4.14	Endurance		N/A
	Sub-clauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable		N/A
4.14.7	Only insulation resistance and voltage proof are checked		N/A
	Visual examination, no visible damage		N/A
4.17	Passive flammability test		N/A
	This sub-clause is applicable		N/A
4.18	Active flammability test		N/A
	This sub-clause is applicable		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
G	ANNEX G (NORMATIVE) - SAFETY ISOLATING TRANSFORMERS		N/A
	The following modifications to this standard are applicable for safety isolating transformers:		N/A
7	Marking and instructions		N/A
7.1	Transformers for specific use marked with:		N/A
	-name, trademark or identification mark of the manufacturer or responsible vendor		N/A
	-model or type reference		N/A
17	Overload protection of transformers and associated circuits		N/A
	Fail-safe transformers comply with sub-clause 15.5 of IEC 61558-1		N/A
22	Construction		N/A
	Sub-clauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable		N/A
29	Clearances, creepage distances and solid insulation		N/A
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply		N/A

H	ANNEX H (NORMATIVE) - SWITCHES		N/A
	Switches comply with the following clauses of IEC 61058-1, as modified:		N/A
	-The tests of IEC 61058-1 carried out under the conditions occurring in the appliance		N/A
	-Before being tested, switches are operated 20 times without load		N/A
8	Marking and documentation		N/A

	Switches are not required to be marked		N/A
	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference		N/A
13	Mechanism		N/A
	The tests may be carried out on a separate sample		N/A
15	Insulation resistance and dielectric strength		N/A
15.1	Not applicable		N/A
15.2	Not applicable		N/A
15.3	Applicable for full disconnection and micro-disconnection		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
17	Endurance		N/A
	Compliance is checked on three separate appliances or switches		N/A
	For 17.2.4.4, the number of cycles is 10 000, unless otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335		N/A
	Switches for operation under no load and which can be operated only by a tool and switches operated by hand that are interlocked so that they cannot be operated under load, are not subjected to the tests		N/A
	Sub-clause 17.2.2 and 17.2.5.2 is not applicable		N/A
	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1		N/A
	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1		N/A
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies		N/A
	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24		N/A

I	ANNEX I (NORMATIVE) - MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE		N/A
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	The following modifications to this standard are applicable for motors having basic insulation that is inadequate for the rated voltage of the appliance:		N/A
8	Protection against access to live parts		N/A
8.1	Metal parts of the motor are considered to be bare live parts		N/A
11	Heating		N/A
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings		N/A
11.8	Temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material		N/A
16	Leakage current and electric strength		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test		N/A
19	Abnormal operation		N/A
19.1	The tests of 19.7 to 19.9 not carried out		N/A
19.101	Appliance operated at rated voltage with each of the following fault conditions:		N/A
	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit		N/A
	- short circuit of each diode of the rectifier		N/A
	- open circuit of the supply to the motor		N/A
	- open circuit of any parallel resistor, the motor being in operation		N/A
	Only one fault simulated at a time, the tests carried out consecutively		N/A
22	Construction		N/A
22.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation		N/A
	Compliance checked by the tests specified for double and reinforced insulation		N/A

J	ANNEX J (NORMATIVE) - COATED PRINTED CIRCUIT BOARDS		N/A
	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:		N/A
5.7	Conditioning of the test specimens		N/A
	When production samples are used, three samples of the printed circuit board are tested		N/A
5.7.1	Cold		N/A
	The test is carried out at -25°C		N/A
5.7.3	Rapid change of temperature		N/A
	Severity 1 is specified		N/A
5.9	Additional tests		N/A
	This sub-clause is not applicable		N/A

K	ANNEX K (NORMATIVE) - OVERVOLTAGE CATEGORIES		P
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.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	The information on overvoltage categories is extracted from IEC 60664-1		P
	Overvoltage category is a numeral defining a transient overvoltage condition		P
	Equipment of overvoltage category IV is for use at the origin of the installation		N/A
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N/A
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		P
	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies		N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N/A
L	ANNEX L (INFORMATIVE) - GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		P
	Sequences for the determination of clearances and creepage distances		P
M	ANNEX M (NORMATIVE) - POLLUTION DEGREE		P
	The information on pollution degrees is extracted from IEC 60664-1		P
	Pollution		P
	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment		P
	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		P
	Minimum clearances specified where pollution may be present in the microenvironment		P
	Degrees of pollution in the microenvironment		P
	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:		P



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence		N/A
	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is expected		P
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is expected		N/A
	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow		N/A

N	ANNEX N (NORMATIVE) - PROOF TRACKING TEST		N/A
	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:		N/A
7	Test apparatus		N/A
7.3	Test solutions		N/A
	Test solution A is used		N/A
10	Determination of proof tracking index (PTI)		N/A
10.1	Procedure		N/A
	Voltage is 100V, 175V, 400V or 600V		N/A
	Las paragraph of clause 3 applies		N/A
	The test is carried out on five specimens		N/A
	If in doubt, additional test with voltage reduced by 25V, the number of drops increased to 100		N/A
10.2	The Report stating if the PTI value was based on a test using 100 drops with test voltage of (PTI-25) V		N/A

O	ANNEX O (INFORMATIVE) - SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30		P
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.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
	Description of tests for determination of resistance to heat and fire		P

P	ANNEX P (INFORMATIVE) - GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES		N/A
	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a warm damp equable climate and that are marked WDaE		N/A
	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a warm damp equable climate and that are marked WDaE, if liable to be connected to a supply mains that excludes the protective earthing conductor		N/A
5	General conditions for the tests		N/A
5.7	The ambient temperature for the tests of Clauses 11 and 13 is 40 +3/0		N/A
7	Marking and instructions		N/A
7.1	The appliance marked with the letters WDaE		N/A
7.12	The instructions state that the appliance is to be supplied through a RCD having a rated residual operating current not exceeding 30 mA		N/A
	The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries		N/A
11	Heating		N/A
11.8	The values of Table 3 are reduced by 15 K		N/A
13	Leakage current and electric strength at operating temperature		N/A
13.2	The leakage current for class I appliances not exceeding 0,5 mA		N/A
15	Moisture resistance		N/A
15.3	The value of t is 37 °C		N/A
16	Leakage current and electric strength		N/A
16.2	The leakage current for class I appliances not exceeding 0,5 mA		N/A
19	Abnormal operation		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3		N/A
Q	ANNEX Q (INFORMATIVE) - SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS		N/A
	Description of tests for appliances incorporating electronic circuits		N/A
R	ANNEX R (NORMATIVE) - SOFTWARE EVALUATION		
	Software evaluated in accordance with the following clauses of Annex H of IEC 60730-1, as modified		
H.2	Definitions		
	Only definitions H.2.16 to H.2.20 applicable		
H.7	Information		
	Only footnotes 12) to 18) of Table 7.2, as modified, applicable		
H.11.12	Controls using software		
	All the sub-clauses of H.11.12, as modified, except H.11.12.6 and H.11.12.6.1, applicable		
H.11.12.7	Delete text		N/A
H.11.12.7.1	For appliances using software class C having a single channel with self-test and monitoring structure, the manufacturer provides the measures necessary to address the fault/errors in safety related segments and data		N/A
H.11.12.8	Software fault/error detection occurs before compliance with 19.13 of IEC 60335-1 is impaired		N/A
H.11.12.8.1	Replace text		N/A
H.11.12.13	Software and safety related hardware under its control initializes and terminates before compliance with 19.13 of IEC 60335-1 is impaired		N/A
	DIFFERENCES EXISTING IN SOME COUNTRIES (EN 60335-2-75)		N/A
6.1	JAPAN: Class 0I is allowed for appliances used indoors having a rated voltage not exceeding 150V		N/A
11.7	U.S.A.: The number of vending cycles is specified to determine the duration of the test		N/A
13.2 and 16.2	JAPAN: The leakage current limits are different.		N/A
20.1	U.S.A.: Test according to US requirements		N/A



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
21	U.S.A.: Metal enclosures are not subjected to the test.		N/A
22.7	U.S.A.: Pressure relief device operates before the rated pressure of the vessel has been exceeded.		N/A
	U.S.A.: The test pressure is five times rated pressure.		N/A
24.103	U.S.A.: Self-resetting thermal cut-outs are allowed if they have been evaluated for reliability.		N/A
25.7	AUSTRALIA and NEW ZEALAND: Ordinary polyvinyl chloride sheathed supply cords are allowed.		N/A
25.7	U.S.A.: Lighter supply cords are allowed.		N/A
27.2	U.S.A.: The addition is not applicable.		N/A
Annex AA:	U.S.A.: Elastomeric parts are evaluated differently.		N/A



.EN 60335-2-75						
Clause	Requirement – Test				Result – Remark	Verdict
10.1	TABLE: Power input deviation					N/A
Input deviation of/at:	P rated (W)	P measured (W)	dP	Allowed dP	Remark	
Supplementary information:						

10.2 TABLE: Current deviation						N/A
Current deviation of/at:	I rated (A)	I measured (A)	dI	Allowed dI	Remark	
Supplementary information:						

11.8 TABLE: Heating test, thermocouples					P
Test voltage (V)				233.2V	—
Ambient (°C)				22,0	—
Thermocouple locations		dT (K)		Max. dT (K)	
Supply cord		18,3		50	
Internal wiring		24,8		50	
Test corner		12,3		65	
PCB		41.5		120	
Adapter		33.6		--	
Supplementary information:					

11.8 TABLE: Heating test, resistance method						N/A
Test voltage (V)					—	
Ambient, t1 (°C)					—	
Ambient, t2 (°C)					—	
Temperature rise of winding		R1 (Ω)	R2 (Ω)	dT (K)	Max. dT (K)	Insulation class
Supplementary information:						



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Clause	Requirement – Test	Result – Remark	Verdict
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13.2	TABLE: Leakage current		P
	Heating appliances: 1.15 x rated input		—
	Motor-operated and combined appliances: 1.06 x rated voltage.....	233.2V	—

Leakage current between	I (mA)	Max. allowed I (mA)
L/N and enclosure	0,008	0,25

Supplementary information:

13.3	TABLE: Electric strength		P
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Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
L/N and enclosure	3000	No

Supplementary information:

14	TABLE: Transient overvoltages		N/A
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Clearance between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)

Supplementary information:

16.2	TABLE: Leakage current		P
	Single phase appliances: 1.06 x rated voltage.....	25.44V	—
	Three phase appliances 1.06 x rated voltage divided by $\sqrt{3}$		—

Leakage current between	I (mA)	Max. allowed I (mA)
L/N and enclosure	0,010	0,25

Supplementary information:

16.3	TABLE: Electric strength		
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Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
L/N and enclosure	3000	No

Supplementary information:



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict
17	TABLE: Overload protection, temperature rise		N/A
Temperature rise of part/at:		dT (K)	Max. dT (K)
Supplementary information:			

19.13	TABLE: Abnormal operation, temperature rises		P
Thermocouple locations		dT (K)	Max. dT (K)
Floor and wall of test corner		17,2	150
Supply cord		23,4	150
Supplementary information:			

24.1	TABLE: Components					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity	
PUMP	NINGBO HUINING ELECTRICAL CO.,LTD	BP-57G	DC24V 1.2A	--	CE	
Enclosure	--	--	94V-0	UL94	UL	
PCB	--	YL-801	94V-0	UL796	UL	
AC/DC Adapter	--	YW48-240150	Input:AC 100-240V 50/60Hz, 1.0A Output: DC24V 1.5A	--	CE	
Internal wire	YUDAO SHI XINRIYUE XIANLAN GONGMAO YOUXIAN GONGSI	1015	300/300V	--	UL	
1) An asterisk indicates a mark which assures the agreed level of surveillance						

28.1	TABLE: Threaded part torque test			P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)	
Enclosure fixing screw	5.0	II	2.0	
Supplementary information:				



.EN 60335-2-75						
Clause	Requirement – Test				Result – Remark	Verdict
29.1	TABLE: Clearances					P
	Overvoltage category.....:					—
		Type of insulation:				
Rated impulse voltage (V):	Min. cl (mm)	Basic	Functional	Supplementary	Reinforced	Verdict / Remark
330	0.5					N/A
500	0.5					N/A
800	0.5					N/A
1 500	1.0					N/A
2 500	<u>2.0</u>	> 2.0	> 2.0		> 4.0	P
4 000	3.5					N/A
6 000	6.0					N/A
8 000	8.5					N/A
10 000	11.5					N/A

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage, (V)	Creepage distance (mm) / Pollution degree							Type of insulation			Verdict
	1	2			3						
		Material group			Material group						
		I	II	IIIa/IIIb	I	II	IIIa/IIIb	B*)	S*)	R*)	
≤50	0,2	0,6	0,9	<u>1,2</u>	1,5	1,7	1,9	—	—	—	N/A
≤50	0,2	0,6	0,9	1,2	1,5	1,7	1,9	—	—	—	N/A
≤50	0,4	1,2	1,8	2,4	3,0	3,4	3,8	—	—	—	N/A
>50 and ≤ 125	0,3	0,8	1,1	1,5	1,9	2,1	2,4	—	—	—	N/A
>50 and ≤ 125	0,3	0,8	1,1	1,5	1,9	2,1	2,4	—	—	—	N/A
>50 and ≤ 125	0,6	1,6	2,2	3,0	3,8	4,2	4,8	—	—	—	N/A
>125 and ≤ 250	0,6	1,3	1,8	<u>2,5</u>	3,2	3,6	4,0	>2.5	—	—	P
>125 and ≤ 250	0,6	1,3	1,8	<u>2,5</u>	3,2	3,6	4,0	—	>2.5	—	P
>125 and ≤ 250	1,2	2,6	3,6	<u>5,0</u>	6,4	7,2	8,0	—	—	>5.0	P
>250 and ≤ 400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—	—	—	N/A
>250 and ≤ 400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—	—	—	N/A
>250 and ≤ 400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—	—	N/A
>400 and ≤ 500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—	—	—	N/A
>400 and ≤ 500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—	—	—	N/A
>400 and ≤ 500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—	—	N/A



.EN 60335-2-75												
Clause	Requirement – Test							Result – Remark			Verdict	
29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P	
Working voltage, (V)	Creepage distance (mm) / Pollution degree							Type of insulation			Verdict	
	1	2			3							
	Material group				Material group							
	I	II	IIIa/IIIb	I	II	IIIa/IIIb	B*)	S*)	R*)	Verdict		
>500 and ≤ 800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A	
>500 and ≤ 800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A	
>500 and ≤ 800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A	
>800 and ≤ 1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A	
>800 and ≤ 1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A	
>800 and ≤ 1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A	
>1000 and ≤ 1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	N/A	
>1000 and ≤ 1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	N/A	
>1000 and ≤ 1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		N/A	
>1250 and ≤ 1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	N/A	
>1250 and ≤ 1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	N/A	
>1250 and ≤ 1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—		N/A	
>1600 and ≤ 2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		—	—	N/A	
>1600 and ≤ 2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—		—	N/A	
>1600 and ≤ 2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—		N/A	
>2000 and ≤ 2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		—	—	N/A	
>2000 and ≤ 2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—		—	N/A	
>2000 and ≤ 2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—		N/A	
>2500 and ≤ 3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		—	—	N/A	
>2500 and ≤ 3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—		—	N/A	
>2500 and ≤ 3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—		N/A	
>3200 and ≤ 4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		—	—	N/A	
>3200 and ≤ 4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—		—	N/A	
>3200 and ≤ 4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—		N/A	
>4000 and ≤ 5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		—	—	N/A	
>4000 and ≤ 5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—		—	N/A	
>4000 and ≤ 5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—		N/A	
>5000 and ≤ 6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		—	—	N/A	
>5000 and ≤ 6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—		—	N/A	
>5000 and ≤ 6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—		N/A	



.EN 60335-2-75			
Clause	Requirement – Test	Result – Remark	Verdict

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation											P	
Working voltage, (V)	Creepage distance (mm) / Pollution degree									Type of insulation			Verdict
	1	2			3								
	Material group				Material group								
	I	II	IIIa/IIIb	I	II	IIIa/IIIb	B*)	S*)	R*)	Verdict			
>6300 and ≤ 8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—	—	—	N/A		
>6300 and ≤ 8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—	—	—	N/A		
>6300 and ≤ 8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—	—	N/A		
>8000 and ≤ 10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—	—	—	N/A		
>8000 and ≤ 10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—	—	—	N/A		
>8000 and ≤ 10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—	—	N/A		
>10000 and ≤ 12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—	—	—	N/A		
>10000 and ≤ 12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—	—	—	N/A		
>10000 and ≤ 12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—	—	N/A		

*) , B=Basic, S=Supplementary and R=Reinforced



.EN 60335-2-75								
Clause	Requirement – Test						Result – Remark	Verdict
29.2	TABLE: Creepage distances, functional insulation							P
Working voltage, (V)		Creepage distance (mm) / Pollution degree						
	1	2			3			
		Material group			Material group			
		I	II	IIIa/IIIb	I	II	IIIa/IIIb	Verdict / Remark
≤50	0,2	0,6	0,8	1,1	1,4	1,6	1,8	N/A
>50 and ≤ 125	0,3	0,7	1,0	1,4	1,8	2,0	2,2	N/A
>125 and ≤ 250	0,4	1,0	1,4	<u>2,0</u>	2,5	2,8	3,2	P
>250 and ≤ 400	0,8	1,6	2,2	3,2	4,0	4,5	5,0	N/A
>400 and ≤ 500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>500 and ≤ 800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤ 1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤ 1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤ 1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤ 2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤ 2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤ 3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤ 4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤ 5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤ 6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤ 8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤ 10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤ 12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

30.1	TABLE: Ball pressure			P
Part	Test temperature (°C)		Impression diameter (mm)	Allowed impression diameter (mm)
Enclosure	75		1.2	2

30.2	TABLE: resistance to heat, fire and tracking, tracking and glow-wire test						P
Part under test	Tracking test		Glow wiring test				Result
	175V	250V	550°C	650°C	750 °C	850°C	
Enclosure							--



ANNEX A:

Photo-documentation



Fig.1: General appearance of EUT



Fig.2: General appearance of EUT



Fig.3: General appearance of EUT



Fig.4: General appearance of EUT



Fig.5: General appearance of EUT



Fig.6: internal view of EUT