APPLICATION FOR LVD TEST REPORT
On Behalf of

Cixi Sandie Electrical Appliance Co.,Ltd.

WASHING MACHINE

Model No.: XPB68-2008
(other models can found in the attachment)

Prepared for : Cixi Sandie Electrical Appliance Co.,Ltd.
Qiuwang Villagel,Longshan Town, Cixi,Zhejiang,China

Prepared By : Accurate Technology Co., Ltd.
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Date of Test: June 13, 2016 to June 18, 2016
Date of Report: June 21, 2016
Report Number: ATS2016308

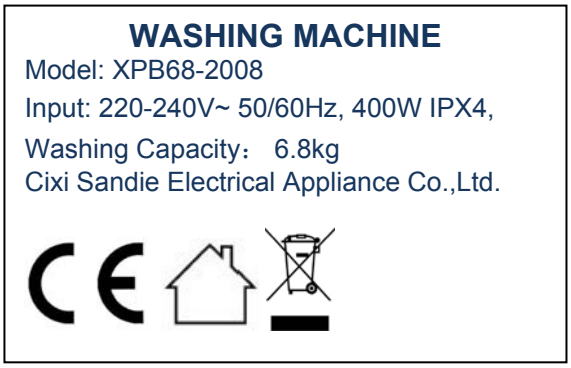
TEST REPORT
IEC/EN 60335-2-4 & 7
Household and similar electrical appliances – Safety –
Part 2-4: Particular requirements for spin extractors
Part 2-7: Particular requirements for washing machines

Report Number..... :	ATS2016308
Tested by (name + signature)..... :	**Bill**
Tested by (name + signature)..... :	**Victor**
Date of issue ..... :	June 21, 2016
Total number of pages	130
Applicant's name ..... :	Cixi Sandie Electrical Appliance Co.,Ltd.
Address..... :	Qiuwang Villagel,Longshan Town, Cixi,Zhejiang,China
Test specification:	
Standard ..... :	☐ IEC 60335-2-4:2008 (Sixth Edition) +IEC 60335-2-7:2008 (Seventh Edition) +A1 :2011 in conjunction with IEC 60335-1:2010 (Fifth Edition)) incl. Corrigendum 1:2010 ☒ EN 60335-2-4:2010+EN 60335-2-7:2010 +A11:2013+A1:2013 used in conjunction with EN 60335-1:2012 and EN 62233:2008
Test procedure..... :	LVD
Non-standard test method..... :	N/A
Test Report Form No. ..... :	IEC60335_2_4&7G
Test Report Form(s) Originator.... :	CQC
Master TRF ..... :	Dated 2014-06

Test item description..... :	WASHING MECHINE
Trade Mark..... :	N/A
Manufacturer ..... :	Cixi Sandie Electrical Appliance Co.,Ltd.
Address..... :	Qiuwang Villagel, Longshan Town, Cixi,Zhejiang,China
Model/Type reference..... :	XPB68-2008 (other models can found in the attachment)
Ratings..... :	XPB68-2008: Input: 220-240V~ 50/60Hz, 400W IPX4, Washing Capacity： 6.8kg

Copy of marking plate

The artwork below may be only a draft.



Test item particulars ..... :	WASHING MACHINE
Classification of installation and use ..... :	Class I stationary appliance
Supply Connection ..... :	Non-detachable cord
..... :	
Possible test case verdicts:	
- test case does not apply to the test object .....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement .....:	F (Fail)
Testing.....:	
Date of receipt of test item.....:	
Date (s) of performance of tests .....:	

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

General product information:

Model listed:
XPB68-2008, XPB68-2008G, XPB68-2088G, XPB68-2008D, XPB68-2088D, XPB68-2008H, XPB68-2088H, XPB68-2008E, XPB68-2088E, XPB68-2008C, XPB68-2088C 6.8kg; XPB65-2008 6.5kg; XPB62-2008 6.2kg; XPB60-2088G, XPB60-2008G, XPB60-2008D, XPB60-2088D, XPB60-2008H, XPB60-2088H, XPB60-2088E, XPB60-2008E, XPB60-2008C, XPB60-2088C 6.0kg; XPB48-2008 4.8kg; XPB40-2008 4.0kg 220V-240V 50Hz/60Hz IPX4 400W

Accurate Technology Co., Ltd.
Address: F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057 , P. R. China

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		--
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		P
5.2	The tests of 21.101, 21.102 and 22.101 are carried out on the same appliance as that used for the test of Clause 18 (IEC 60335-2-4)		P
	The relevant tests of 21.101,21.102 and 22.104 shall be carried out on the same appliance used for the test of clause 18 (IEC 60335-2-7)		N/A
5.3	The tests of 21.101 and 21.102 are carried out before the test of clause 18. The test of 22.101 is carried out after the test of Clause 18 (IEC 60335-2-4)		N/A
	Test of 15.101 carried out before test of 15.3 (IEC 60335-2-7)		P
	Relevant tests of 21.101 and 21.102 carried out before test of clause 18 (IEC 60335-2-7)		P
	The test of 22.104 is carried out after the test of clause 18 (IEC 60335-2-7)		N/A
5.7	Doubt is considered to exist if the temperature of the water is within 6 K of the boiling point and the difference between the temperature rise of the relevant part and the limit specified does not exceed 25 K minus the room temperature. (IEC 60335-2-7)		N/A
6	CLASSIFICATION		--
6.1	Appliances shall be of Class I, II or III..... ..... : (IEC 60335-2-4 & 7)	Class I	P
6.2	Protection against harmful ingress of water	IPX4	P
	Appliances at least IPX4 (IEC 60335-2-4 & 7)		P
7	MARKING AND INSTRUCTIONS		--
7.1	Rated voltage or voltage range (V)..... .....:	220-240V	P
	Symbol for nature of supply, or ....:	~	P
	Rated frequency (Hz)..... .....:	50/60Hz	P
	Rated power input (W), or ....:	400W	P
	Rated current (A) ....:		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark..... .....:	(see marking plate)	P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Model or type reference ....:	(see marking plate)	P
	Symbol IEC 60417-5172, for Class II appliances		N/A
	IP number, other than IPX0..... .....:	IPX4	P
	Maximum water level for appliances without automatic water level control (IEC 60335-2-7)		P
	Symbol IEC 60417-5180, for Class III appliances, unless		N/A
	the appliance is operated by batteries only		N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
	Appliances not intended for connection to the hot water supply and not provided with heating elements shall be marked with the substance of the following: "Do not connect to the hot water supply" (IEC 60335-2-7)		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		P
	Different rated values marked with the values separated by an oblique stroke		N/A
7.4	Appliances adjustable for different rated voltages, the voltage setting is clearly discernible		N/A
	Requirement met if frequent changes are not required and the rated voltage to which the appliance is to be adjusted is determined from a wiring diagram		N/A
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		N/A
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
7.6	Correct symbols used		--
	Symbol for nature of supply placed next to rated voltage		P
	Symbol for Class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		N/A
	correct mode of connection is obvious		N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		--
	- marking of terminals exclusively for the neutral conductor (letter N)		P
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P
	- marking not placed on removable parts		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
	This also applies to switches which are part of a control		P
	If figures are used, the off position indicated by the figure 0		P
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
	If the off position is only indicated by letters, the word "off" is used. (IEC 60335-2-4 & 7)		N/A
7.11	Indication for direction of adjustment of controls		P
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		P
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the power supply unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery is a primary one or a secondary one charged outside of the appliance		N/A
	Maximum mass of dry cloth in kilograms, specified (IEC 60335-2-4 &7)	6.8kg	P
7.12.1	Sufficient details for installation supplied		--
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this shall be stated		N/A
	If the label specified in 7.101 is supplied with the appliance, the installation instructions shall state that it has to be permanently fixed to the wall close to the appliance (IEC 60335-2-4)		N/A
	For appliances intended for communal use in blocks of flats, and having an interlock system that has to be energized in order to release the lid, the installation instructions shall state that a device for switching off the appliance automatically is not to be installed in the supply circuit (IEC 60335-2-4)		N/A
	For washing machines having ventilation openings in the base, the installation instructions shall state that the openings must not be obstructed by a carpet (IEC 60335-2-7)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
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 in accordance with the wiring rules		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		--
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating 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
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances shall state how the appliance is to be fixed		N/A
	Fixing method shall not depend on the use of adhesives		N/A
7.12.8	Instructions for appliances connected to the water mains:		--
	- max. inlet water pressure (Pa)..... .....:		N/A
	- min. inlet water pressure, if necessary (Pa).....:		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
7.14	Marking clearly legible and durable, rubbing test as specified		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	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
	The caution relating to connection to the hot water supply shall be on the appliance at its point of attachment to the water supply (IEC 60335-2-7)		N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N/A
7.101	Appliances intended for communal use in blocks of flats, and having an interlock system that has to be energized in order to release the lid, shall be supplied with a label that states the substance of the following, unless the instruction is marked on the appliance: (IEC 60335-2-4)		N/A
	This spin extractor has to be connected to the supply mains before the lid can be opened. Do not force it open. (IEC 60335-2-4)		N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		--
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, 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 IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements		N/A
8.1.4	Accessible part not considered live if:		--
	- 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 μF		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC		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:		--
	- built-in appliances		N/A
	- fixed appliances		N/A
	- appliances delivered in separate units		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
8.2	class II appliances and constructions constructed so 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
	For built-in appliances and fixed appliances, after installation, use of test probe B of IEC 61032		N/A
9	STARTING OF MOTOR-OPERATED APPLIANCES		--
	Requirements and tests are specified in part 2 when necessary		P
10	POWER INPUT AND CURRENT		--
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)	P
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated power input is related to the arithmetic mean value		P
	The selected representative period is the period, such as filling with water, washing, rinsing, water extraction, spinning or braking, during which the power input is the highest (IEC 60335-2-7)		P
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 carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated current is related to the arithmetic mean value of the range		N/A
	The selected representative period is the period, such as filling with water, washing, rinsing, water extraction, spinning or braking, during which the current is the highest (IEC 60335-2-7)		N/A
11	HEATING		--
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described.....:		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		P
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) .....:		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V).....:	1.06 times	P
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V).....:		N/A
11.7	Appliances are operated for five periods of water extraction, the periods being separated by a rest period. Each rest period, which includes the braking time, has duration of 1 min for each kilogram of dry textile material or 4 min, whichever is longer. During the rest period, the textile material is re-saturated with water (IEC 60335-2-4)		N/A
	For appliances incorporating a programmer or timer, the water extraction period is the maximum allowed by the control (IEC 60335-2-4)		N/A
	For other appliances, the water extraction period has a duration of (IEC 60335-2-4)		--
	-15 min for continuous-flow rinsing appliances;		N/A
	- 5 min for other appliances.		N/A
	If a longer period is indicated in the instructions, this period applies instead (IEC 60335-2-4)		N/A
	Appliances with a programmer :(IEC 60335-2-7)		N/A
	-3 cycles with programme that results in highest temperature rises		N/A
	-rest period of 4 min between cycles		N/A
	Others appliances sequences of test as specified (IEC 60335-2-7)		P
	-for appliances without means for water extraction and for washing machines with a hand-operated wringer:washing		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	-for appliances having a single drum for washing and water extraction: washing followed by water extraction		N/A
	-for appliances having separate drums for washing and water extraction, which can-not be used simultaneously:washing and water extraction separated by an additional 4 min rest period		N/A
	-for appliances having separate drums for washing and water extraction, which can be used simultaneouslywashing together with water extraction so that the operations terminate simultaneously		N/A
	- for appliances having a single drum (dried=washed) washing followed by water extraction, followed by drying		N/A
	- for appliances having a single drum (dried<washed)washing followed by water extraction, followed by 2 drying periods, with an additional rest period 4 min before each drying period. In this case only 2 cycles of operation are carried out.		N/A
	For appliances with a timer, the washing period, the water extraction period and the drying are equal to the maximum period allowed by the timer (IEC 60335-2-7)		P
	For appliance without a timer (IEC 60335-2-7)		--
	Type of washing machine:		N/A
	Duration of washing (min)		N/A
	Duration of water extraction : 5min		N/A
	The rest period, including any braking time, has a duration of 4 min. (IEC 60335-2-7)		N/A
	After the specified sequence of operation, discharge pumps that are driven by a separate motor and switched on and off manually, are subjected to 3 operating periods separated by rest periods of 4 min. (IEC 60335-2-7)		N/A
11.8	Temperature rises monitored continuously and not exceeding the values in table 3 .....:	(see appended table)	P
	Temperature rise limit for metal applies to		--
	- parts with a metal coating at least 0,1 mm thick, and		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	- metal parts with a plastic coating lest than 0,3 mm thick		N/A
	If the temperature rise of a motor winding exceeds the value of table 3, or		P
	if there is doubt with regard to Classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		N/A
	Protective devices do not operate, except		N/A
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		--
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times the rated power input (W).....:		N/A
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V).....:		P
	Protective impedance and radio interference filters disconnected before carrying out the tests		P
13.2	For class 0, class II and class III appliances, leakage current measured by means of the circuit described in figure 4 of IEC 60990		P
	For other appliances, a low impedance ammeter may be used		P
	Leakage current measurements .....:	(see appended table)	P
	For stationary class I appliances, the leakage current not exceeding 3,5 mA, or 1 mA/kW of rated power input with a limit of 5 mA, whichever is greater ..... (IEC 60335-2-7)		P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4 .....:	(see appended table)	P
	No breakdown during the tests		P
14	TRANSIENT OVERVOLTAGES		--
	Appliances withstand the transient over-voltages to which they may be subjected		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 .....:	(see appended table)	N/A
	No flashover during the test, unless		N/A
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		N/A
15	MOISTURE RESISTANCE		--
15.1	Enclosure provides the degree of moisture protection according to Classification of the appliance	IPX4	P
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3		P
	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29		P
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529 .....:		N/A
	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances		N/A
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		P
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are 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, and		N/A
	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

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	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, and		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 subjected to the relevant treatment with the main part		N/A
	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed		N/A
15.2	Appliances shall be constructed so that spillage of liquid in normal use does not affect their electrical insulation (IEC 60335-2-4)		N/A
	Spillage of liquid does not affect the electrical insulation even if an inlet valve fails to close (IEC 60335-2-7)		P
	Appliances with type X attachment, except those having a specially prepared cord, are fitted with the lightest permissible type of flexible cord and having the smallest cross-sectional area specified in Table 13 (IEC 60335-2-4 & 7)		N/A
	The inlet to the discharge pump or to the gravity drain is blocked. The drum is filled as specified for normal operation, the mass of water being twice the mass of the dry textile material. Any water remaining after the saturation process is poured into the appliance, which is supplied at rated voltage and operated for 1 min or the maximum period allowed by the programmer or timer, whichever is shorter (IEC 60335-2-4)		N/A
	In addition, continuous-flow rinsing appliances having a vertical axis are completely filled with saturated textile material and 10 l of water is poured in over a period of 20 s. The appliance is then operated while supplied at rated voltage (IEC 60335-2-4)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Appliances intended to be filled with water by the user are completely filled with water containing approximately 1 % NaCl. A further quantity of this solution equal to 15 % of the capacity of the appliance or 0,25 l, whichever is greater, is poured in steadily over a period of 1 min (IEC 60335-2-7)		P
	Other appliances are operated until the maximum water level is reached, and 5 g of the detergent specified in Annex AA is added for each litre of water in the appliance. The inlet valve is held open and the filling is continued for 15 min after first evidence of overflow or until the inflow is automatically stopped by other means (IEC 60335-2-7)		P
	For appliances that are loaded from the front, the door is then opened if this can be achieved manually and without damage to the door interlock system (IEC 60335-2-7)		N/A
	For all appliances, 0,5 l of water containing approximately 1 % NaCl and 0,6 % of rinsing agent, as specified in Annex AA, is poured over the top of the appliance, the controls being placed in the on position. The controls are then operated through their working range, this operation being repeated after a period of 5 min (IEC 60335-2-4 & 7)		P
	The appliance shall then withstand the electric strength test of 16.3 and inspection shall show that there is no trace of water on insulation that could result in a reduction of clearances or creepage distances below the values specified in Clause 29 (IEC 60335-2-4 & 7)		P
15.3	Appliances proof against humid conditions		P
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		P
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		P
	Humidity test for 48 h in a humidity cabinet		P
	Reassembly of those parts that may have been removed		P
	The appliance withstands the tests of clause 16		P
15.101	Foaming does not affect electrical insulation - Electric strength test according subclause 16.3 (IEC 60335-2-7)		P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
16.1	Leakage current not excessive and electric strength adequate		P
	Protective impedance disconnected from live parts before carrying out the tests		P
	Tests carried out at room temperature and not connected to the supply		P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V).....:		P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by √3 (V) .....:		N/A
	Leakage current measurements .....:	(see appended table)	P
	Limit values doubled if:		--
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A
	With the radio interference filters disconnected, the leakage current do not exceed limits specified .....:	(see appended table)	N/A
16.3	Electric strength tests according to table 7 .....:	(see appended table)	P
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified .....:	(see appended table)	P
	No breakdown during the tests		P
17	OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS		--
	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 under the most unfavourable short-circuit or overload likely to occur in normal use (V).....:		N/A
	Basic insulation is not short-circuited		N/A
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K		N/A
	Temperature of the winding not exceeding the value specified in table 8		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A
18	ENDURANCE		--
	Appliances having lids that can be opened while the drum is rotating shall be constructed so that braking mechanisms and lid interlocks withstand the stresses to which they may be exposed in normal use (IEC 60335-2-4)		N/A
	The appliance is supplied at 1,06 times rated voltage and operated under normal operation until the motor has reached its maximum speed. (IEC 60335-2-4)		N/A
	The lid is then fully opened. The test is repeated after the drum has been at rest for a period long enough to ensure that the appliance does not attain an excessive temperature (IEC 60335-2-4)		N/A
	The test is carried out (IEC 60335-2-4)		N/A
	- for braking mechanisms		N/A
	3 500 times for separate spin extractors		N/A
	1 000 times for spin extractors incorporated in washing machines		N/A
	- for lid interlocks, 6 000 times		N/A
	The textile material is re-saturated with water at least every 250 times (IEC 60335-2-4)		N/A
	After the test, the appliance shall be fit for further use and compliance with this standard shall not be impaired (IEC 60335-2-4)		N/A
18.101	Appliances shall be constructed so that the lid or door interlock withstands the stresses to which it may be exposed in normal use. (IEC 60335-2-7)		N/A
	The lid or door is subjected to 10 000 cycles of opening and closing (IEC 60335-2-7)		N/A
	For appliances having a drying function, the number of cycles is 13 000 (IEC 60335-2-7)		N/A
	After the test, compliance with 20.103 to 20.105 shall not be impaired (IEC 60335-2-7)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
18.102	The braking mechanism of appliances having a lid that can be opened during the water extraction period shall withstand the stresses to which it may be exposed in normal use. (IEC 60335-2-7)		N/A
	Appliance supplied at 1.06 rated voltage (IEC 60335-2-7)		N/A
	Test carried out 1000 times, the textile material re-saturated with water at least every 250 times (IEC 60335-2-7)		N/A
	After the test, the appliance shall be fit for further use and compliance with this standard shall not be impaired. (IEC 60335-2-7)		N/A
19	ABNORMAL OPERATION		--
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe .....:	(see appended table)	N/A
	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and		N/A
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		N/A
	if applicable, to the test of 19.5		N/A
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6		N/A
	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		P
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		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 incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or		N/A
	until steady conditions are established		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		N/A
	If more than one test is applicable to the same appliance, they are carried out one by one after the appliance cooled down to the room temperature		P
	For combined appliances, the tests carried out with motors and heating elements operating simultaneously under normal operation		P
	When a control required short-circuited, it may be rendered inoperative instead		N/A
	For appliances incorporating a programmer or timer, the tests of 19.2 and 19.3 are replaced by the tests of 19.101 (IEC 60335-2-7)		P
	Test of 19.7 is not carried out on motor driving moving parts of oscillating agitator (IEC 60335-2-7)		N/A
	Appliances not intended for connection to the hot water supply and not provided with heating elements are also subjected to the test of 19.102. (IEC 60335-2-7)		N/A
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0.85 times rated power input (W).....:		N/A
	Restricted heat dissipation is obtained without water, with just sufficient water to cover the heating elements..... (IEC 60335-2-7)		N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W).....:		N/A
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited		N/A
	If more than one control incorporated, they are short-circuited in turn.		N/A
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 sheath		N/A
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	Appliances with a neutral, tested with it connected to the sheath		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 (V) .....:		N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		P
	locking moving parts of other appliances		P
	Locked rotor, capacitors open-circuited one at a time		P
	If an appliance having more than one motor, each motor tested separately		P
	Test repeated with capacitors short-circuited one at a time, unless		N/A
	capacitor is of Class P2 of IEC 60252-1		P
	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed .....:		P
	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)	P
	Test not applicable (IEC 60335-2-4)		N/A
	Appliances without a programmer or timer are operated for 5 min ..... (IEC 60335-2-7)		N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	Test not applicable (IEC 60335-2-4)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	The running overload test is carried out on appliances that have overload protective devices incorporating electronic circuits to protect the windings of the drum motor.(IEC 60335-2-7)		N/A
	If the protective device senses the winding temperature directly, the test is not applicable. (IEC 60335-2-7)		N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V).....:		N/A
	During the test, parts not being ejected 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		N/A
	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, unless		N/A
	restarting does not result in a hazard		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
	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out		N/A
	During and after each test the following is checked:		--
	- the temperature 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 both of the following conditions are met:		--
	- the base material of the printed circuit board withstands the test of Annex E		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29		N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to circuits or parts of circuits meeting both of the following conditions:		--
	- 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 of other parts of the appliance does not rely on the correct functioning of the electronic circuit		N/A
19.11.2	Fault conditions applied one at a time, the appliance operating under conditions specified in clause 11, but supplied at rated voltage, duration of the tests as specified:		--
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29		N/A
	b) open circuit at the terminals of any component		N/A
	c) short circuit of capacitors, unless		N/A
	they comply with IEC 60384-14		N/A
	d) short circuit of any two terminals of an electronic component, other than integrated circuits		N/A
	This fault condition is not applied between the two circuits of an optocoupler		N/A
	e) failure of triacs in the diode mode		N/A
	f) failure of microprocessors and integrated circuits except components such as thyristors and triacs		N/A
	g) failure of an electronic power switching device		N/A
	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made		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 g) of 19.11.2		N/A
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	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, the device being set in the off position or in the stand-by mode		N/A
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, 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
	Surge protective devices disconnected, unless		N/A
	They incorporate spark gaps		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
	The frequency ranges tested both from 80MHz to 1 000MHz and from1,4GHz to 2,0 GHz		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
	Test level 3 with a repetition rate of 5 kHz for signal and control lines		N/A
	Test level 4 with a repetition rate of 5 kHz for the power supply lines		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	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N/A
	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	The values specified in IEC 61000-4-34 are applied at zero crossing of the supply voltage		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 reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate		N/A
	The appliance continues to operate normally, or		N/A
	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
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		--
	- basic insulation (V).....:		P
	- supplementary insulation (V) .....:		P
	- reinforced insulation (V).....:		P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage		P
	The appliance does not undergo a dangerous malfunction, and		P
	no failure of protective electronic circuits, if the appliance is still operable		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		--
	- do 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
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		--
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
	The textile material shall not ignite and shall not show any charring or glowing (IEC 60335-2-7)		P
	During the tests of 19.101 and 19.102, the temperature of windings shall not exceed the values specified in table 8. (IEC 60335-2-7)		P
	The appliance shall comply with 20.103 to 20.105 if it can still be operated. (IEC 60335-2-7)		P
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited		N/A
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		N/A
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited		N/A
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		N/A
19.101	Fault conditions applied, appliance supplied at rated voltage and operated under normal operation. (IEC 60335-2-7)		--
	-programmer stopping in any position		P
	-disconnection and reconnection of one or more phases of the supply		N/A
	-open-circuiting or short-circuiting of components		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	-failure of magnetic valve		N/A
	-failure or blocking the mechanical parts of water-level switch, except if		N/A
	-the cross-sectional area of the tube supplying the air chamber is greater than 500mm² with a minimum dimension of 10mm, -the outlet of the chamber is at least 20mm above the highest water level, and -the tube connecting the air chamber to the water-level switch is fixed so that there is no likelihood of bending or pinching		N/A
	-puncture of the capillary tube of a thermostat		N/A
19.102	Appliances not intended for connection to the hot water supply and not provided with heating elements are operated under the conditions of cl. 11 , except that they are supplied at rated voltage and filled with water at a temperature of 65 °C± 5°C (IEC 60335-2-7)		P
20	STABILITY AND MECHANICAL HAZARDS		--
20.1	Appliances having adequate stability		P
	The drum is empty, or filled as specified for normal operation, whichever is more unfavourable (IEC 60335-2-4)		N/A
	The appliance is empty or filled as specified for normal operation, whichever is more unfavourable (IEC 60335-2-7)		P
	Doors and lids are closed and any castors turned to the most unfavourable position (IEC 60335-2-7)		P
	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; 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
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		P
	Protective enclosures, guards and similar parts are non-detachable, and		P
	have adequate mechanical strength		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	This requirement does not apply to those parts of the appliance that necessarily exposed to performing the appliance's working function		P
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		P
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure		N/A
	Not possible to touch dangerous moving parts with the test probe described		P
20.101	Appliances shall not be adversely affected by an unbalanced load (IEC 60335-2-4)		N/A
	The appliance is placed on a horizontal support and a load having a mass of 0,2 kg or 10 % of the maximum mass of textile material specified in the instructions, whichever is higher, is fixed to the inside wall of the drum half-way along its length (IEC 60335-2-4)		N/A
	The appliance is supplied at rated voltage and operated for 5 min or the maximum period allowed by a programmer or timer, whichever is shorter (IEC 60335-2-4)		N/A
	The test is carried out four times, the load being moved each time through an angle of 90° around the wall of the drum (IEC 60335-2-4)		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated with the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit. (IEC 60335-2-4)		N/A
	The appliance shall not overturn and the drum shall not hit other parts except the enclosure (IEC 60335-2-4)		N/A
	After the test, the appliance shall be fit for further use (IEC 60335-2-4)		N/A
	Top load appliances of drum type: provided with an interlock which disconnects motor before door or lid opening exceeds 50mm (IEC 60335-2-7)		N/A
	If a removable or sliding lid is provided, the motor shall be de-energized as soon as the lid is removed or displaced and not possible to start motor unless the lid is in the closed position (IEC 60335-2-7)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance checked by inspection, by measurement and by the following test: test probe B of IEC 61032 is applied in order to try and release any interlock that is needed to comply with the requirement. The interlock shall not release. (IEC 60335-2-7)		N/A
20.102	The lid or door shall be interlocked so that the appliance can only be operated when the lid or door is in the closed position (IEC 60335-2-4)		N/A
	Test probe B of IEC 61032 is applied in order to try and release any interlock that is needed to comply with the requirement. The interlock shall not release (IEC 60335-2-4)		N/A
	Balance test in conditions as specified (mass kg) fixed to the inside wall of the drum: (IEC 60335-2-7)		N/A
	Operating at rated voltage, test made 4 times with mass moved through 90° each time (IEC 60335-2-7)		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated with the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit. (IEC 60335-2-7)		N/A
	The appliance shall not overturn and the drum shall not hit other parts except the enclosure (IEC 60335-2-7)		N/A
	Appliance is fit for further use (IEC 60335-2-7)		N/A
20.103	For appliances having a drum with a rotational kinetic energy exceeding 1 500 J, or (IEC 60335-2-4)		N/A
	- for appliances having a single lid, a maximum peripheral speed exceeding 20 m/s (IEC 60335-2-4)		N/A
	- for appliances incorporating two lids, a maximum peripheral speed exceeding 25 m/s (IEC 60335-2-4)		N/A
	it shall not be possible to open the lid while the drum is in motion (IEC 60335-2-4)		N/A
	Compliance is checked by inspection, by measurement of the maximum peripheral speed, by calculation of the rotational kinetic energy and by the following test (IEC 60335-2-4)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	The appliance is supplied at rated voltage and operated empty. The force determined during the test of 22.101 with the lid interlocked is applied to the lid in an attempt to open it (IEC 60335-2-4)		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately:		N/A
	- the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit; (IEC 60335-2-4)		N/A
	- the electromagnetic phenomena tests of 19.11.4.1 to 19.11.4.6 applied to the appliance. (IEC 60335-2-4)		N/A
	In an appliance containing lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that the following conditions are fulfilled: (IEC 60335-2-4)		N/A
	- the lid or door does not move automatically to an open position when the interlock is released; and (IEC 60335-2-4)		N/A
	- the appliance will not restart after the cycle in which the interlock was released. (IEC 60335-2-4)		N/A
	It shall not be possible to open the lid while the drum is in motion (IEC 60335-2-4)		N/A
	If the drum is not cylindrical, the peripheral speed is the mean peripheral speed (IEC 60335-2-4)		N/A
	If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R1 and is evaluated in accordance with the relevant requirements of Annex R. (IEC 60335-2-4)		N/A
	For washing machines of the drum type that are loaded from the front or from the top, the door or lid shall be interlocked so that the appliance can only be operated when the door or lid is in the closed position (IEC 60335-2-7)		N/A
	Compliance checked by inspection, by measurement and by the following test: test probe B of IEC 61032 is applied in order to try and release any interlock that is needed to comply with the requirement. The interlock shall not release. (IEC 60335-2-7)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
20.104	For appliances having a drum with a rotational kinetic energy not exceeding 1 500 J and (IEC 60335-2-4)		N/A
	– for a appliances having a single lid, a maximum peripheral speed not exceeding 20 m/s (IEC 60335-2-4)		N/A
	– for appliances incorporating two lids, a maximum peripheral speed not exceeding 25 m/s (IEC 60335-2-4)		N/A
	moving parts shall not be accessible while the motor is energized or when the drum speed exceeds 60 r/min (IEC 60335-2-4)		N/A
	The braking system shall not be affected by the penetration of water (IEC 60335-2-4)		N/A
	Compliance is checked by measurement of the maximum peripheral speed, by calculation of the rotational kinetic energy and by the following test, which is carried out after repeating the spillage test of 15.2 (IEC 60335-2-4)		N/A
	The appliance is supplied at rated voltage and operated empty. For appliances having a single lid and for appliances incorporating two lids where the second lid does not open independently of the first lid, the lid or first lid as appropriate is gradually opened and (IEC 60335-2-4)		N/A
	– with an opening of 4 mm to 10 mm, it shall not be possible to touch parts rotating at a speed exceeding 60 r/min with the test probe 12 of IEC 61032 (IEC 60335-2-4)		N/A
	– with an opening greater than 10 mm, but not more than 12 mm, it shall not be possible to touch parts rotating at a speed exceeding 60 r/min with a test rod 3 mm in diameter and 120 mm long. In addition, the test probe B of IEC 61032 is applied and shall not come within a distance of 20 mm from the rotating parts (IEC 60335-2-4)		N/A
	– with an opening greater than 12 mm, the motor shall be disconnected from the supply and within 7 s, the drum speed shall not exceed 60 r/min (IEC 60335-2-4)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	For appliances incorporating two lids where the second lid opens independently of the first lid, the first lid is gradually opened and with an opening greater than 50 mm, the motor shall be disconnected from the supply and within 2 s the drum speed shall not exceed 20 m/s (IEC 60335-2-4)		N/A
	The second lid is gradually opened and (IEC 60335-2-4)		N/A
	– with an opening of 4 mm to 10 mm, it shall not be possible to touch parts rotating at a speed exceeding 60 rev/min with the test probe 12 of IEC 61032; (IEC 60335-2-4)		N/A
	– with an opening greater than 10 mm, but not more than 12 mm, it shall not be possible to touch parts rotating at a speed exceeding 60 r/min with a test rod 3 mm in diameter and 120 mm long. In addition, the test probe B of IEC 61032 is applied and shall not come within a distance of 20 mm from the rotating parts (IEC 60335-2-4)		N/A
	– with an opening greater than 12 mm and within 7 s, the drum speed shall not exceed 60 r/min (IEC 60335-2-4)		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately: (IEC 60335-2-4)		N/A
	-the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit; (IEC 60335-2-4)		N/A
	-the electromagnetic phenomena tests of 19.11.4.2 and 19.11.4.5 applied in turn to the appliance. (IEC 60335-2-4)		N/A
	In an appliance containing lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that the following conditions are fulfilled: (IEC 60335-2-4)		N/A
	-the lid or door does not move automatically to an open position when the interlock is released; and (IEC 60335-2-4)		N/A
	-the appliance will not restart after the cycle in which the interlock was released. (IEC 60335-2-4)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R. (IEC 60335-2-4)		N/A
	It shall not be possible to open the lid or door of the appliance while the speed exceeds 60 r/min if the drum has a rotational kinetic energy exceeding 1 500J, or a maximum peripheral speed exceeding (IEC 60335-2-7)		N/A
	-20 m/s for drums that rotate about the horizontal axis,		N/A
	-40 m/s for drums that rotate about the vertical axis,		N/A
	In an appliance containing lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that the following conditions are fulfilled: (IEC 60335-2-7)		N/A
	- the lid or door does not move automatically to an open position when the interlock is released; and		N/A
	- the appliance will not restart after the cycle in which the interlock was released.		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately: (IEC 60335-2-7)		N/A
	- the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit;		N/A
	- the electromagnetic phenomena tests of 19.11.4.2 to 19.11.4.5 applied to the appliance.		N/A
	If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R. (IEC 60335-2-7)		N/A
20.105	Protective devices fitted in the upper part of spin extractors having a vertical axis shall be positioned or protected so that the device is not likely to be damaged by textile material that may escape from the drum in normal use (IEC 60335-2-4)		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Appliances shall have an automatic means for switching off the motor, or for reducing the drum speed to 60 r/min, when the lid or door is opened if the drum has a rotational kinetic energy not exceeding 1 500J, and a peripheral speed not exceeding: (IEC 60335-2-7)		N/A
	-20 m/s for drums that rotate about the horizontal axis,		N/A
	-40 m/s for drums that rotate about the vertical axis		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately: (IEC 60335-2-7)		N/A
	- the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit;		N/A
	- the electromagnetic phenomena tests of 19.11.4.2 and 19.11.4.5 applied in turn to the appliance.		N/A
	If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R. (IEC 60335-2-7)		N/A
21	MECHANICAL STRENGTH		--
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J		P
	The appliance shows no damage impairing compliance with this standard, and		P
	compliance with 8.1, 15.1 and clause 29 not impaired		P
	If small dents do not reduce clearance or creepage distances below the values specified in clause 29 and small chips do not adversely affect protection against access to live parts or moisture, those small things are ignored		P
	If the inner cover withstands the test, fracture of the outer decorative cover is ignored		N/A
	If doubt, 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

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	If cracks not visible by the naked eye, surface cracks in fibre-reinforced mouldings and similar materials are ignored		P
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		N/A
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm		P
	The insulation is tested as specified, and does withstand the electric strength test of 16.3		P
21.101	Lids of appliances shall have adequate mechanical strength (IEC 60335-2-4)		N/A
	A rubber hemisphere having a diameter of 70 mm and a hardness between 40 IRHD and 50 IRHD is fixed to a cylinder having a mass of 20 kg and dropped from a height of 100 mm onto the centre of the lid (IEC 60335-2-4)		N/A
	The test is carried out three times, after which the lid shall not be damaged to the extent that moving parts become accessible (IEC 60335-2-4)		N/A
	Lids and doors shall have adequate mechanical strength (IEC 60335-2-7)		P
	Compliance is checked by 21.101.1 for lids, and 21.101.2 for doors		P
21.101.1	A rubber hemisphere –diameter 70 mm, hardness between 40 and 50 HIRD- is fixed to a cylinder – mass 20 kg- and dropped from a height of 100 mm onto the centre of the lid (IEC 60335-2-7)		N/A
	Test carried out 3 times, after which the lid shall not be damaged to such an extent that moving parts become accessible.		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
21.101.2	A vertically downwards force of 150 N is applied I the most unfavourable position to the door while it is open at an angle of 90° ± 5°. The force is maintained for 1 mm. (IEC 60335-2-7)		N/A
	After the test, the appliance shall not be damaged or deformed to such an extend that compliance with 20.103 to 20.105 is impaired (IEC 60335-2-7)		N/A
21.102	Lids and their hinges shall have adequate resistance to distortion (IEC 60335-2-4)		N/A
	A force of 50 N is applied to the open lid in the most unfavourable direction and position (IEC 60335-2-4)		N/A
	The test is carried out three times, after which the hinges shall not have worked loose and the appliance shall not be damaged or deformed to such an extent that compliance with the appropriate requirements of 20.102 to 20.104 is impaired (IEC 60335-2-4)		N/A
	Lids shall have adequate resistance to distortion (IEC 60335-2-7)		P
	A force of 50 N is applied to the open lid in the most unfavourable direction and position. Test carried out 3 times , after which the hinges shall not have worked loose and the appliance shall not be damaged or deformed to such an extend that compliance with 20.103 to 20.105 is impaired (IEC 60335-2-7)		P
22	CONSTRUCTION		--
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled		P
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		--
	- a supply cord fitted with a plug, or		P
	- a switch complying with 24.3, or		N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or		N/A
	- an appliance inlet		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected Class 01 and Class I appliances, connected to 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 has 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		N/A
	rotating does not impair compliance with this 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
	Voltage not exceeding 34 V (V) .....:	0V	P
22.6	Electrical insulation not affected by condensing water or leaking liquid		P
	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks		N/A
	Requirements relating to leakage from containers, hoses, coupling and similar parts of the appliance is not applicable to parts that withstand the ageing test specified in annex BB (IEC 60335-2-7)		P
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices		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

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless		P
	the substance has adequate insulating properties		N/A
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, if:		N/A
	- a non-self-resetting thermal cut-out is required by the standard, and		N/A
	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	they are voltage maintained		N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely		N/A
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		N/A
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		N/A
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
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 or other fasteners, likely to be touched by the user in normal use or during user maintenance		P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		P
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and 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		P
22.19	Driving belts not relied upon to provide the required level of insulation, unless		P
	constructed to prevent inappropriate replacement		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		N/A
	material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless		N/A
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		N/A
22.22	Appliances not containing asbestos		P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported		N/A
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts		N/A
22.26	For class III constructions 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
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		P
	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	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear		P
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29		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 materials or beads alone not used as supplementary or reinforced insulation		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Insulating material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation		N/A
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts		P
	Electrodes not used for heating liquids		N/A
	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid		N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless		P
	the shaft is not accessible when the part is removed		P
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation		P
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	For stationary appliances, this requirement does not apply to handles, levers and knobs on stationary appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation		N/A
22.36	For appliances other than Class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless		N/A
	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 and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless		N/A
	the capacitors comply with 22.42		N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out		P
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 being easily visible and accessible		N/A
	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible		N/A
22.41	No components, other than lamps, containing mercury		N/A
22.42	Protective impedance consisting of at least two separate components		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		N/A
	Resistors checked by the test of 14.1 a) in IEC 60065		N/A
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14		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 not having an enclosure that is shaped or decorated like a toy		N/A
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		N/A
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1		N/A
	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards		N/A
	These requirements are not applicable to software used for functional purpose or compliance with clause 11		N/A
	If the software modified, the evaluation and relevant tests are repeated if the modification influences the test results involving protective electronic circuits		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 backsiphonage of non-potable water		N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A
	the appliance switches off automatically or can operate continuously without hazard		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation		N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode		N/A
	There is a visual indication showing that the appliance is adjusted for remote operation		N/A
	These requirements not necessary on appliances that can operate as follows, without giving rise to a hazard:		--
	- continuously, or		N/A
	- automatically, or		N/A
	- remotely		N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		N/A
22.101	Interlocks shall be constructed so that lids or doors are unlikely to be forced open in normal use (IEC 60335-2-4)		N/A
	The lid or door is opened manually as in normal use, the force applied being measured. The lid or door is closed and interlocked. An attempt is then made to open the lid or door in the same way (IEC 60335-2-4)		N/A
	It shall not be possible to force open the lid or door with a force less than 10 times the value originally measured, with a minimum of 50 N (IEC 60335-2-4)		N/A
	Appliances shall be constructed so that when the water level is above the lower hedge of the door opening, it shall not be possible to open the door by a simple action while the appliance is operating. (IEC 60335-2-7)		N/A
	It is not applicable to appliance fitted with interlock doors or doors that are opened by means of a key or by two separate actions, such as pushing and turning. (IEC 60335-2-7)		N/A
	If compliance relies on the operation of an electronic circuit and the appliance is capable of heating the water to 90 °C, the test is repeated under the following conditions applied separately: (IEC 60335-2-7)		--
	– the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit;		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	– the electromagnetic phenomena tests of 19.11.4.2 and 19.11.4.5 applied to the appliance.		N/A
	If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R. (IEC 60335-2-7)		N/A
22.102	Cloth cannot come in contact with heating element (IEC 60335-2-7)		N/A
22.103	Appliances shall be constructed so that, during normal use, filter compartments cannot be opened by a simple action. (IEC 60335-2-7)		N/A
	It is not applicable to appliances intended for connection to the cold water supply only and without means to heat the water or to appliances fitted with filter compartment covers that are: (IEC 60335-2-7)		--
	– interlocked;		N/A
	– opened by means of a key;		N/A
	– opened by two separate actions such as pushing and turning; or		N/A
	– opened by rotating by more than 180 °		N/A
22.104	Lid and door interlocks shall be constructed so that they are unlikely to be forced open in normal use (IEC 60335-2-7)		N/A
22.105	Any mechanical release mechanism intended to be open the loading door after a failure shall only be accessible by using a tool. (IEC 60335-2-7)		N/A
23	INTERNAL WIRING		--
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		N/A
	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		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

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
	Not more than 10% of the strands of any conductor broken, and		N/A
	not more than 30% for wiring supplying circuits that consume no more than 15W		N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		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 clamping at both ends, or		P
	be such that it can only be removed by breaking or cutting		P
23.7	The colour combination green/yellow only used for earthing conductors		P
23.8	Aluminium wires not used for internal wiring		P
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless		P
	the contact pressure is provided by spring terminals		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
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 (60227 IEC 52)		N/A
23.101	Insulation and sheath of internal wiring for the supply of magnetic valves and similar components shall be at least equivalent to the electrical characteristics of light polyvinyl chloride sheathed flexible cord (code designation 60227 IEC 52) (IEC 60335-2-7)		N/A
24	COMPONENTS		--
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components .....:	(see appended table)	P
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		N/A
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		N/A
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		N/A
	Lampholders and starterholders that have 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
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		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		N/A
	If the capacitors have to be tested, they are tested according to Annex F		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
24.1.2	Safety isolating transformers complying with IEC 61558-2-6		N/A
	If they have to be tested, they are 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		N/A
	If they have to be tested, they are tested according to Annex H		N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
24.1.4	Automatic controls complying with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		--
	- thermostats: 10 000		N/A
	- 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
	- timers (IEC 60335-2-4) 10 000		N/A
	- energy regulators: 10 000		N/A
	- programmers : (IEC 60335-2-7) 3 000	N/A	
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		N/A
	Thermal motor protectors are tested in combination with their motor under the conditions specified 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 subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	For lid interlocks, the number of cycles of operation declared for Subclauses 6.10 and 6.11 of IEC 60730-2-12 shall not be less than 6 000. (IEC 60335-2-4)		N/A
	For lid or door interlocks, the number of cycles of operation declared for subclauses 6.10 and 6.11 of IEC 60730-2-12 shall not be less than (IEC 60335-2-7)		--
	-6 000		N/A
	-for washing machines including drying operation: 9 000		N/A
	-interlock operates more than once during normal operation, the minimum number of cycles is increased accordingly.		N/A
24.1.5	Appliance couplers complying with IEC 60320-1		N/A
	However, for appliances Classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A
	Interconnection couplers complying 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	For remote operation of the appliance 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		N/A
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N/A
24.1.9	Contactors and 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 cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance.....:		N/A
24.2	Appliances not fitted with:		--
	- switches or automatic controls in flexible cords		P
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- thermal cut-outs that can be reset by soldering, unless		P
	the solder has a melding point of at least 230 ˚C		N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have 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/TR 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		P
	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	Rating: 450V Tested: 401.7V 0.89 times	P
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 42 V		N/A
	In addition, the motors comply with the requirements of Annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
	They are supplied with the appliance		N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		N/A
	One or more of the following conditions are to be met:		--
	- the capacitors are of Class P2 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E		N/A
	- adjacent non-metallic parts within 50 mm Classified as at least V-1 according to IEC 60695-11-10		N/A
24.101	Thermal cut-outs incorporated in washing machines for compliance with 19.4 shall be not self-resetting (IEC 60335-2-7)		N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		--
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		P
	- supply cord fitted with a plug,		N/A
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or		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	Single phase	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	Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:		--
	- a set of terminals allowing the connection of a flexible cord		N/A
	- a fitted supply cord		N/A
	- a set of supply leads accommodated in a suitable compartment		N/A
	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A
	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support		N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm) .....:		N/A
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29		N/A
25.5	Method for assembling the supply cord to the appliance:		--
	- type X attachment		N/A
	- type Y attachment		P
	- type Z attachment, if allowed in relevant part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment		N/A
25.6	Plugs fitted with only one flexible cord		P
25.7	Supply cords, other than for class III appliances, being one of the following types:		--
	- 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 88)		N/A
	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11		--
	• light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	• ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances		P
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords		--
	• heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg		N/A
	• heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances		N/A
	Supply cords for class III appliances adequately insulated		N/A
	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts		N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm^2) .....:	<3A 3x0.75mm^2	P
25.9	Supply cords not in contact with sharp points or edges		P
25.10	Supply cord of class I appliances have a green/yellow core for earthing		P
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless		P
	the contact pressure is provided by spring terminals		N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure		N/A
25.13	Inlet openings so constructed as to prevent damage to the supply cord		P
	If the enclosure at the inlet opening is not of insulating material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		P
	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is		N/A
	class 0, or		N/A
	a class III appliance not containing live parts		N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing		N/A
	Flexing test, as described:		--

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Clause	Requirement + Test	Result - Remark	Verdict
	- applied force (N) .....:		N/A
	- number of flexings.....:		N/A
	The test does not result in:		--
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current		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 to the cord or the cord guard		N/A
	- broken strands piercing the insulation and becoming accessible		N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, 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: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) .....:	100N, 0.35Nm	P
	Cord not damaged and max. 2 mm displacement of the cord		N/A
25.16	Cord anchorages for type X attachments constructed and located so that:		--
	- 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 supply cord		N/A
	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless		N/A
	they are 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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	it is part of a specially prepared cord		N/A
	- screws which have to be operated when replacing the cord do not fix any other component, unless		N/A
	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool		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		N/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		N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
	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, test with the cord supplied with the appliance		P
25.18	Cord anchorages only accessible with the aid of a tool, or		P
	Constructed so that the cord can only be fitted with the aid of a tool		P
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	The insulated conductors of the supply cord for type Y and Z attachment additionally insulated from accessible metal parts		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		N/A
	- so there is no risk of damage to the conductors or their insulation when fitting the cover		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts		N/A
	2 N test to the conductor for portable appliances; no contact with accessible metal parts		N/A
25.22	Appliance inlets:		--
	- live parts not accessible during insertion or removal		N/A
	Requirement not applicable to appliance inlets complying with IEC 60320-1		N/A
	- connector can be inserted without difficulty		N/A
	- the appliance is not supported by the connector		N/A
	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless		N/A
	the supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:		--
	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11		N/A
	- the thickness of the insulation may be reduced		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 this standard is impaired when they are disconnected		N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.		N/A
	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083		N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS		--
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, except		N/A
	for class III appliances that do not contain live parts		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 the connection of cables to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless		N/A
	the connections are soldered		N/A
	Screws and nuts not used to fix any other component, 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, unless		N/A
	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint		N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor		N/A
	Terminals fixed so that when the clamping means is tightened or loosened:		--
	- the terminal does not become loose		N/A
	- internal wiring is not subjected to stress		N/A
	- neither clearances nor creepage distances are reduced below the values in clause 29		N/A
	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm) .....:		N/A
	No deep or sharp indentations of the conductors		N/A
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened		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,		N/A
	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 of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²).....:		N/A
	If a specially prepared cord is used, terminals need only be suitable for that cord		N/A
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure		N/A
26.8	Terminals for the connection of 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		P
	conductors ends fitted with means suitable for screw terminals		P
	Pull test of 5 N to the connection		N/A
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	Crimped	P
	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free		N/A
27	PROVISION FOR EARTHING		--
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet		P
	Earthing terminals and earthing contacts not connected to the neutral terminal		P
	Class 0, II and III appliances have no provision for earthing		N/A
	Safety extra-low voltage circuits not earthed, unless		N/A
	protective extra-low voltage circuits		N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening		P
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and		N/A
	do not provide earthing continuity between different parts of the appliance, and		N/A
	conductors cannot be loosened without the aid of a tool		N/A
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part		N/A
	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		P
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal		P
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion		P
	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		P
	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion		P
27.5	Low resistance of connection between earthing terminal and earthed metal parts		P
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the 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 (Ω) .....:		P
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		--
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 connections or connections providing earthing continuity		N/A
	Screws used for electrical connections or connections providing earthing continuity screwed into metal		P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	For 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 impairs basic insulation		N/A
	For screws and nuts; torque-test as specified in table 14.....:	(see appended table)	P
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless		P
	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material		P
	This requirement does not apply to electrical connections in circuits of appliances for which:		--
	• 30.2.2 is applicable and that carry a current not exceeding 0,5 A		N/A
	• 30.2.3 is applicable and that carry a current not exceeding 0,2 A		N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together		N/A
	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		N/A
	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:		--
	- in normal use,		N/A
	- during user maintenance,		N/A
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	the screw forms a thread having a length of at least half the diameter of the screw		N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity		P
	This requirement does not apply to screws in the earthing circuit if at least two screws are used for the connection, or		N/A
	if an alternative earthing circuit is provided		N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		--
	Clearances, creepage distances and solid insulation withstand electrical stress		P
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies.....:		N/A
	The microenvironment is pollution degree 1 under type 1 protection		N/A
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3		N/A
	These values apply to functional, basic, supplementary and reinforced insulation .....:		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 .....:	(see appended table)	P
	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N/A
	However, if the distances are 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		N/A
	Impulse voltage test is not applicable:		--
	- when the microenvironment is pollution degree 3, or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- for basic insulation of Class 0 and Class 01 appliances		N/A
	Appliances are in overvoltage category II		P
	A force of 2 N is applied to bare conductors, other than heating elements		N/A
	A force of 30 N is applied to accessible surfaces		P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
	The values of table 16 or the impulse voltage test of clause 14 are applicable .....:	(see appended table)	P
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1		N/A
	Lacquered conductors of windings considered to be bare conductors		N/A
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see appended table)	P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage .....:	(see appended table)	P
	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation		P
29.1.4	Clearances for functional insulation are the largest values determined from:		--
	- table 16 based on the rated impulse voltage.....:	(see appended table)	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		N/A
	the distances can be affected by wear, distortion, movement of the parts or during assembly		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
	Lacquered conductors of windings considered to be bare conductors		N/A
	However, clearances at crossover points are not measured		N/A
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:		--
	- table 16 based on the rated impulse voltage.....:		N/A
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation		N/A
	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation		N/A
	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 are based on the working voltage used as the rated voltage in table 15		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree .....:	(see appended table)	P
	Pollution degree 2 applies, unless		N/A
	- precautions taken to protect the insulation; pollution degree 1		N/A
	- insulation subjected to conductive pollution; pollution degree 3		P
	A force of 2 N is applied to bare conductors, other than heating elements		N/A
	A force of 30 N is applied to accessible surfaces		P
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		N/A
	Pollution degree 3, and the insulation with a CTI not less than 250, (IEC 60335-2-7)		P
	Unless the insulation is enclosed or located so that it is unlikely to be exposed to pollution during normal use of the appliance due to : (IEC 60335-2-7)		--
	- condensation produced by the appliance		N/A
	- chemicals, such as detergent or fabric conditioner		N/A
	Compliance is checked by inspection and measurements as specified		N/A
29.2.1	Creepage distances of basic insulation not less than specified in table 17 .....:	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17 .....:		N/A
	Except for pollution degree 1, corresponding 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 those specified for basic insulation in table 17, or .....:	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable.....:		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or .....:	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable.....:		N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18 .....:	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18 .....:		N/A
	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		P
	Compliance checked:		--
	- by measurement, in accordance with 29.3.1, or		P
	- by an electric strength test in accordance with 29.3.2, or		N/A
	- by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and		N/A
	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or		P
	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz		N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm		P
	Reinforced insulation have 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 consist of at least 2 layers		N/A
	Reinforced insulation consist of at least 3 layers		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19 .....:		P
30	RESISTANCE TO HEAT AND FIRE		--
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		N/A
	parts of thermoplastic material providing supplementary or reinforced insulation		N/A
	sufficiently resistant to heat		N/A
	Ball-pressure test according to IEC 60695-10-2		P
	External parts tested 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) .....:	(see appended table)	P
	Parts supporting live parts tested 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) .....:	(see appended table)	N/A
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C).....:	(see appended table)	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		--
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		P
	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, and in addition:		P

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		P
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		N/A
	For appliances incorporating a programmer or a timer, 30.2.3 is applicable. (IEC 60335-2-7)		P
	For other appliances, 30.2.2 is applicable (IEC 60335-2-7)		N/A
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C		P
	However, test not carried out if the material is Classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A
	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 need to meet the requirements in ISO 9772 for material Classified HBF		N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and		N/A
	parts of non-metallic material within a distance of 3mm of such connections,		N/A
	subjected to the glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		--
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index (GWFI) according to IEC 60695-2-12 of at least:		--
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	- comprise material having a glow-wire flammability index (GWFI) of at least 750 °C, or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test (NFT) of Annex E, or		N/A
	- comprise material Classified as V-0 or V-1 according to IEC 60695-11-10 .....:		N/A
	Glow-wire 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		P
	The tests are not applicable to conditions as specified .....:		N/A
	Not applicable (IEC 60335-2-4)		N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		N/A
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		N/A
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C		N/A
	Glow-wire applied to an interposed shielding material, if relevant		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 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and		N/A
	parts of non-metallic material within a distance of 3mm,		N/A
	subjected to glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		--
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following Classifications:		--
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	• 775 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	• 675 °C, for other connections		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		--
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material Classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	The consequential needle-flame test of Annex E applied to non-metallic parts that encroach within the vertical cylinder placed above the centre of the connection zone and on top of the non-metallic parts supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections if these parts are those:		--
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of Annex E was applied, or		N/A
	- small parts for which a material Classification of V-0 or V-1 was applied		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		--
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material Classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material 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 the needle-flame test of Annex E		N/A
	Test not applicable to conditions as specified.....:		N/A
31	RESISTANCE TO RUSTING		--
	Relevant ferrous parts adequately protected against rusting		P
	Tests specified in part 2 when necessary		N/A
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		--
	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use		N/A
	Compliance is checked by the limits or tests specified in part 2, if relevant		N/A
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		--
	Description of routine tests to be carried out by the manufacturer		N/A
B	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES		--
	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:		--
	- 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

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	-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
5.B.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
	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006		N/A
7.6	Symbols 60417-5005 and IEC 60417-5006		N/A
7.12	The instructions give information regarding charging		N/A
	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 stated in the instructions or 24 h.....:		N/A
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103		N/A
19.10	Not applicable		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged		N/A
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,		N/A
19.B.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.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength		N/A
	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-31, the number of falls being:		--
	- 100, if the mass of the part does not exceed 250 g (g) .....:		N/A
	- 50, if the mass of the part exceeds 250 g.....:		N/A
	The height of the fall is 500 mm		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
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts		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		--
	Tests, as described, carried out when doubt with regard to the temperature Classification of the insulation of a motor winding		N/A
	Test conditions as specified		N/A
	The value of p in Table C.1 is 2 000. (IEC 60335-2-4)		N/A
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard		N/A
	Test conditions as specified		N/A
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		--
	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:		N/A
7	Severities		--
	The duration of application of the test flame is 30 s ± 1 s		N/A
9	Test procedure		--
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 additional specimens, both withstanding the test		N/A
11	Evaluation of test results		--
	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		--
	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following clauses of IEC 60384-14, with the following modifications:		--
1.5	Terms and definitions		--
1.5.3	Class X capacitors tested according to subClass X2		N/A
1.5.4	This subclause is applicable		N/A
1.6	Marking		--
	Items a) and b) are applicable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.4	Approval testing		--
3.4.3.2	Table 3 is applicable as described		N/A
4.1	Visual examination and check of dimensions		--
	This subclause is applicable		N/A
4.2	Electrical tests		--
4.2.1	This subclause is applicable		N/A
4.2.5	This subclause is applicable		N/A
4.2.5.2	Only table 11 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		--
	This subclause is applicable		N/A
	Only insulation resistance and voltage proof are checked		N/A
4.13	Impulse voltage		--
	This subclause is applicable		N/A
4.14	Endurance		--
	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable		N/A
4.14.7	Only insulation resistance and voltage proof are checked		N/A
	No visible damage		N/A
4.17	Passive flammability test		--
	This subclause is applicable		N/A
4.18	Active flammability test		--
	This subclause is applicable		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		--
	The following modifications to this standard are applicable for safety isolating transformers:		N/A
7	Marking and instructions		--
7.1	Transformers for specific use marked with:		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	-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		--
	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1		N/A
22	Construction		--
	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable		N/A
29	Clearances, creepage distances and solid insulation		--
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply		N/A
	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances		N/A
	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed		N/A
	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1		N/A
H	ANNEX H (NORMATIVE) SWITCHES		--
	Switches comply with the following clauses of IEC 61058-1, as modified below:		--
	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		--
	Switches are not required to be marked		N/A
	However, a switch 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		--
	The tests may be carried out on a separate sample		N/A
15	Insulation resistance and dielectric strength		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
15.1	Not applicable		N/A
15.2	Not applicable		N/A
15.3	Applicable for full disconnection and micro-disconnection		N/A
17	Endurance		--
	Compliance is checked on three separate appliances or switches		N/A
	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless		N/A
	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		N/A
	switches operated by hand that are interlocked so that they cannot be operated under load,		N/A
	are not subjected to the tests		N/A
	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation		N/A
	Subclauses 17.2.2 and 17.2.5.2 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
	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K).....:		N/A
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies		--
	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		--
	The following modifications to this standard are applicable for motors having basic insulation that is inadequate for the rated voltage of the appliance:		--
8	Protection against access to live parts		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
8.1	Metal parts of the motor are considered to be bare live parts		N/A
11	Heating		--
11.3	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings		N/A
11.8	The 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		--
16.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test		N/A
19	Abnormal operation		--
19.1	The tests of 19.7 to 19.9 are not carried out		N/A
19.l.101	Appliance operated at rated voltage with each of the following fault conditions:		--
	- 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		--
22.I.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		--
	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:		--
5.7	Conditioning of the test specimens		--
	When production samples are used, three samples of the printed circuit board are tested		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
5.7.1	Cold		--
	The test is carried out at -25 °C		N/A
5.7.3	Rapid change of temperature		--
	Severity 1 is specified		N/A
5.9	Additional tests		--
	This subclause is not applicable		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		--
	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		N/A
	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		--
	Information for the determination of clearances and creepage distances		P
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		--
	The information on pollution degrees is extracted from IEC 60664-1		P
	Pollution		--

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Clause	Requirement + Test	Result - Remark	Verdict
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment		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		--
	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:		--
	- 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 to be expected		N/A
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected		P
	- 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		--
	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:		--
7	Test apparatus		P
7.3	Test solutions		--
	Test solution A is used		P
10	Determination of proof tracking index (PTI)		--
10.1	Procedure		--
	The proof voltage is 100V, 175V, 400V or 600V...:		P
	The test is carried out on five specimens		N/A
	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100		N/A
10.2	Report		--

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Clause	Requirement + Test	Result - Remark	Verdict
	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V		N/A
O	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30		--
	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
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C		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 residual current device (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
11.8	The values of Table 3 are reduced by 15 K		N/A
13.2	The leakage current for Class I appliances not exceeding 0,5 mA		N/A
15.3	The value of t is 37 °C		N/A
16.2	The leakage current for Class I appliances not exceeding 0,5 mA (mA):		N/A
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		--
	Description of tests for appliances incorporating electronic circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		--
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex		N/A
R.1	Programmable electronic circuits using software		--
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard		N/A
R.2	Requirements for the architecture		--
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety-related segments of the software		N/A
R.2.1.1	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.2 have one of the following structures:		--
	- single channel with periodic self-test and monitoring		N/A
	- dual channel (homogenous) with comparison		N/A
	- dual channel (diverse) with comparison		N/A
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures:		--
	- single channel with functional test		N/A
	- single channel with periodic self-test		N/A
	- dual channel without comparison		N/A
R.2.2	Measures to control faults/errors		--
R.2.2.1	When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
R.2.2.2	Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison		N/A
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths		N/A
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate		N/A
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in Table R.1 or Table R.2, detection of a fault/error shall occur before compliance with clause 19, 20.103 and 20.104 is impaired. (IEC 60335-2-4)		N/A
	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in Table R.1 or Table R.2, detection of a fault/error shall occur before compliance with clauses 19, 20.104, 20.105 and 22.101 is impaired (IEC 60335-2-7)		N/A
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions		N/A
R.2.2.7	Labels used for memory locations are unique		N/A
R.2.2.8	The software is protected from user alteration of safety-related segments and data		N/A
R.2.2.9	The software and safety-related hardware under its control shall be initialized and shall terminate before compliance with clause 19, 20.103 and 20.104 is impaired. (IEC 60335-2-4)		N/A
	The software and safety-related hardware under its control shall be initialized and shall terminate before compliance with clauses 19, 20.104, 20.105 and 22.101 is impaired. (IEC 60335-2-7)		N/A
R.3	Measures to avoid errors		--

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
R.3.1	General		--
	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the following measures to avoid systematic fault in the software are applied		--
	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1		N/A
R.3.2	Specification		--
R.3.2.1	Software safety requirements:	Software Id:	N/A
	The specification of the software safety requirements includes the descriptions listed		N/A
R.3.2.2	Software architecture		--
R.3.2.2.1	The specification of the software architecture includes the aspects listed - techniques and measures to control software faults/errors (refer to R.2.2); - interactions between hardware and software; - partitioning into modules and their allocation to the specified safety functions; - hierarchy and call structure of the modules (control flow); - interrupt handling; - data flow and restrictions on data access; - architecture and storage of data; - time-based dependencies of sequences and data	Document ref. No:	N/A
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis		N/A
R.3.2.3	Module design and coding		--
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules		N/A
	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements		N/A
R.3.2.3.2	Software code is structured		N/A
R.3.2.3.3	Coded software is validated against the module specification by static analysis		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	The module specification is validated against the architecture specification by static analysis		N/A
R.3.3.3	Software validation		--
	The software is validated with reference to the requirements of the software safety requirements specification		N/A
	Compliance is checked by simulation of:		--
	- input signals present during normal operation		N/A
	- anticipated occurrences		N/A
	- undesired conditions requiring system action		N/A

TABLE R.1 – GENERAL FAULT/ERROR CONDITIONS

Component [1)]	Fault/error	Acceptable measures [2) 3)]	Definitions	Document reference for applied measure	Document reference for applied test	Ver-dict
1 CPU 1.1 Registers	Stuck at	Functional test, or periodic self-test using either: - static memory test, or - word protection with single bit redundancy	H.2.16.5 H.2.16.6 H.2.19.6 H.2.19.8.2			--
1.2 VOID						--
1.3 Programme counter	Stuck at	Functional test, or Periodic self-test, or Independent time-slot monitoring, or Logical monitoring of the programme sequence	H.2.16.5 H.2.16.6 H.2.18.10.4 H.2.18.10.2			--
2 Interrupt handling and execution	No interrupt or too frequent interrupt	Functional test, or time-slot monitoring	H.2.16.5 H.2.18.10.4			--

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Clause	Requirement + Test		Result - Remark			Verdict
3 Clock	Wrong frequency (for quartz synchronized clock: harmonics/ sub-harmonics only)	Frequency monitoring, or time slot monitoring	H.2.18.10.1 H.2.18.10.4			--
4. Memory 4.1 Invariable memory	All single bit faults	Periodic modified checksum, or multiple checksum, or word protection with single bit redundancy	H.2.19.3.1 H.2.19.3.2 H.2.19.8.2			--
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2			--
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2			--
5 Internal data path	Stuck at DC fault	Word protection with single bit redundancy Comparison of redundant CPUs by either: - reciprocal comparison - independent hardware comparator	H.2.19.8.2 H.2.18.15 H.2.18.3			--
5.1 VOID						--
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2			--
6 External communication	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14			--

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Clause	Requirement + Test	Result - Remark	Verdict

6.1 VOID						--
6.2 VOID						--
6.3 Timing	Wrong point in time	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or Comparison of redundant communication channels by either: - reciprocal comparison - independent hardware comparator	H.2.18.10.4 H.2.18.18 H.2.18.10.3 H.2.18.15 H.2.18.3			--
	Wrong sequence	Logical monitoring, or time-slot monitoring, or Scheduled transmission (same options as for wrong point in time)	H.2.18.10.2 H.2.18.10.4 H.2.18.18			
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check Comparison of redundant communication channels by either: - reciprocal comparison - independent hardware comparator	H.2.18.13 H.2.18.15 H.2.18.3			--
7.1 VOID						--
7.2 Analog I/O 7.2.1 A/D and D/A-converter	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13			--
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13			--
8 VOID						--

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Clause	Requirement + Test	Result - Remark	Verdict

9 Custom chips [4] e.g. ASIC, GAL, Gate array	Any output outside the static and dynamic functional specification	Periodic self-test	H.2.16.6			--

NOTE A Stuck-at fault model denotes a fault model representing an open circuit or a non-varying signal level. A DC fault model denotes a stuck-at fault model incorporating short circuit between signal lines.

[1] For fault/error assessment, some components are divided into their sub-functions.

[2] For each sub-function in the table, the Table R.2 measure will cover the software fault/error.

[3] Where more than one measure is given for a sub-function, these are alternatives.

[4] To be divided as necessary by the manufacturer into sub-functions.

AA	ANNEX AA (NORMATIVE)		--
	RINSING AGENT(IEC 60335-2-4)		--
	Any commercially available rinsing agent may be used, but if there is any doubt with regards to the test result, the composition of the rinsing agent shall be as follows:		N/A
	Plurafac LF 221 15% Cumene sulfonate (40% solution) 11,5% Citric acid (anhydrous) 3,0% Deionized water 70,5%		N/A
	The rinsing agent has the following properties: -Viscosity, 17 mPa*s; -pH, 2,2 (1% in water).		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict
	DETERGENT AND RINSING AGENT (IEC 60335-2-7)		--
AA.1	Detergent: composition, reference		N/A
AA.2	-Rinsing agent described annex AA		N/A
	-Commercially rinsing agentreference:		N/A
BB	ANNEX BB (NORMATIVE) AGEING TEST FOR ELASTOMERIC PARTS (IEC 60335-2-7)		--
	Test carried out by measuring hardness and mass before and after immersion in a solution of detergent at elevated temperature		N/A
	Test is carried out on at least three samples of each part as specified in ISO 1817, with the following modifications :		N/A
4	Tests liquids		N/A
	Liquid is obtained by dissolving 5 g of detergent per litre of distilled water		N/A
5	Test pieces		N/A
5.4	Conditioning		N/A
	Temperature : 23°C± 2°C		N/A
	Relative humidity : (50± 5)%		N/A
6	Immersion in the test liquid		N/A
6.1	Temperature		N/A
	Solution heated within 1h with test pieces immersed to 75^{+5}_{0} °C and maintained at this value		N/A
	Solution renewed every 24h		N/A
6.2	duration		N/A
	Immersion during periods as specified		N/A
7	Procedure		N/A
7.2	Change in mass		N/A
	Increase in mass of the test pieces, not exceeding 10 % of the value determined before immersion		N/A
7.6	Change in hardness		N/A
	Micro-test for hardness applies		N/A
	Hardness of the test pieces has not been changed by more than 8 IRHD		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Surface not sticky and no crack visible to the naked eye or any other deterioration		N/A
CC	ANNEX CC (NORMATIVE) DETERGENT FREE ELECTROLYSER WASHING MACHINES(IEC 60335-2-7)		--
	Washing machines for household and similar use that incorporate an electrolyte process employing an electrolyte instead of detergent		N/A
3.1.9	Electrolyte specified in the instructions, amount, reference		N/A
7.12	Instructions for appliances intended to be filled with electrolyte by the user shall contain details of the electrolyte,		N/A
	And the substance of the following: In order to avoid hazards, use only the electrolyte specified		N/A
7.12.1	Installation instructions shall state that the appliance shall be installed so that there is a distance of at least 200 mm between the appliance enclosure and external heat sources, such as appliances containing heating elements.		N/A
15.2	Appliances are operated under the clause of cl. 11 but without clothes load.		N/A
	When the maximum water level is reached, the inlet valve is held open and the filling is continued for 15 min after first evidence of overflow or until the inflow is automatically stopped by other means.		N/A
19.201	Appliances shall be constructed so that foaming does not affect electrical insulation.		N/A
	Test carried out immediately after 15.2		N/A
	Test carried out immediately after 15.2		N/A
	After the test the appliance shall withstand the electric strength test of 16.3		N/A
22.6	A coloured solution from the electrolysed portion of the wash water is used instead of coloured water		N/A
22.17	Spacers intended to prevent the electrolyser aperture being blocked by walls shall be fixed so that it is not possible to remove them from the outside of the appliance by hand or by means of screwdriver or a spanner.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
22.201	Appliances fitted with an electrolyser, consisting of cathodic and anodic chambers separated by an electrolytic separator, shall be constructed so that the electrolyser is always open to the atmosphere through an aperture of at least 5 mm in diameter, or 20 mm² in area with a width of at least 3 mm.		N/A
	The aperture shall be located so that it is unlikely to be obstructed in normal use.		N/A
22.202	During normal use of the appliance, the chemical reaction in the electrolyser shall not produce hydrogen gas that is released in hazardous amounts into areas		--
	-where electrical components that produce arcs and sparks during normal operation or abnormal operation are mounted, unless		N/A
	These components have been tested and found at least to comply with IEC 60079-15 for group IIC gases, or		N/A
	-that contain surfaces with a temperature exceeding 460°C during normal operation or abnormal operation and that may be exposed to the released hydrogen gas		N/A
	Compliance is checked by inspection, by measuring the temperature of the relevant surfaces during normal operation or abnormal operation, and by measuring the concentration of hydrogen gas (shall not exceed 50% of the LFL of hydrogen)		N/A
22.203	During normal use of the appliance, the chemical reaction in the electrolyser shall not produce wash water that causes corrosion due to the PH value of the wash water.		N/A
	Compliance is checked by the salt mist test of IEC 60068-2-52, severity 2 being applicable.		N/A
	After the test, the appliance shall not have deteriorated to such an extent that compliance with this standard, in particular with cl. 8 and 27 is impaired. The coating shall not be broken and shall not have loosened the surface.		N/A
29.2	Pollution degree 3, and the insulation with a CTI not less than 250,		N/A
	Unless the insulation is enclosed or located so that it is unlikely to be exposed to pollution during normal use of the appliance due to :		N/A
	- condensation produced by the appliance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- chemicals, such as electrolyte or fabric conditioner		N/A
32	The ozone concentration produced by the chemical reactions in the electrolyser not be excessive.		N/A
	Compliance is checked by test as described		N/A
	The percentage of ozone shall not exceed 5 x 10-6		N/A
BB	Instead of the solution containing detergent, a solution of the electrolysed portion of the wash water obtained under the conditions of cl. 11 is used.		N/A
DD	ANNEX DD (INFORMATIVE) WASHING MACHINES INCORPORATING A POWER DRIVEN WRINGER (IEC 60335-2-7)		--
7.1	The safety release mechanism of power-driven wringers shall be marked to indicate its method of operation, unless		N/A
	Its operating means to be continuously actuated by the user.		N/A
7.12	The instructions shall draw attention to the potential hazards involved when operating the wringer,		N/A
	And shall state that : -the wringer must be disengaged or switched off when not in use; -the appliance must not be operated by children		N/A
11.7	Appliance is operated for 3 cycles (washing following by wringing), with a rest period of 4 min between cycles. Duration of each wringing: 8 min. The wringer is loaded by passing a board through the rollers once a minute, the roller pressure being adjusted to the maximum value. The board is approximately 20 mm thick and 80 cm long, its width being at least equal to three-quarters of the effective length of the rollers. The board is uniformly tapered at each end down to a thickness of approximately 3 mm, over a distance of 20 cm.		N/A
19.7	Moving parts of a wringer are locked even if a trip bar prevents rotation of the roller		N/A
20.201	Power-driven wringers constructed so that the pressure between the rollers has to be maintained by the user, unless a readily accessible safety release or other means of protection is incorporated		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	The release mechanism shall operate easily without violent ejection of any part and shall release pressure on the rollers immediately. The rollers shall separate either by at least 45 mm at both ends or by at least 25 mm at one end and 75 mm at the other		N/A
	The safety release shall be operable by a person standing in any normal working position relative to the wringer, even if the fingers of both hands are trapped between the rollers.		N/A
	Power-driven wringers shall be constructed to prevent fingers being squeezed between a roller and the frame		N/A
	Power-driven wringers shall be controlled by an easily accessible switch		N/A

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation				P
Input deviation of/at:	P rated (W)	P measured (W)	Δ P	Required Δ P	Remark
XPB68-2008	400	454.2	+13.6	+15	P
Supplementary information:					

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

11.8	TABLE: Heating test, thermocouple measurements		P
	Test voltage (V).....:	243.8	—
	Ambient (°C).....:	17.6	—

Thermocouple locations	Max. temperature measured, (°C)	Max. temperature limit, (°C)
Power cord	44.2	75
Internal wire	48.4	75
Capacitor	42.6	70
Capacitor(filter)	46.8	70
Timer	21.6	85
Enclosure	40.8	85
Supplementary information:		

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Clause	Requirement + Test	Result - Remark	Verdict

11.8	TABLE: Heating test, resistance method					P
	Test voltage (V).....:		243.8			—
	Ambient, t1 (°C).....:		17.6			—
	Ambient, t2 (°C).....:		17.6			—
Temperature rise of winding		R1 (Ω)	R2 (Ω)	ΔT (K)	Max. dT (K)	Insulation class
Motor winding1		26	34.9	86.3	90	E
Motor winding 2		26	35.0	87.3	90	E
Supplementary information:						

13.2	TABLE: Leakage current			P
	Heating appliances: 1.15 x rated input (W) .....:		--	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V).....:		234.8	—
Leakage current between			I (mA)	Max. allowed I (mA)
Live part to ground metal			0.084	3.5
Live part to accessible part			0.008	0.35(peak)
Supplementary information:				

13.3	TABLE: Electric strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part to ground metal		1000	No
Live part to accessible part		3000	No
Supplementary information:			

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict

14	TABLE: Transient overvoltages					N/A
Clearance between:		Cl (mm)	Required Cl (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 (V) .....:	243.8V	—
	Three phase appliances 1.06 x rated voltage divided by √3 (V) .....:	--	—

Leakage current between	I (mA)	Max. allowed I (mA)
Live part to ground metal	0.103	3.5
Live part to accessible part	0.008	0.25
Supplementary information:		

16.3	TABLE: Electric strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part to ground metal		1250	No
Live part to accessible part		3000	No
Supplementary information:			

17	TABLE: Overload protection, thermocouple measurements		N/A
Temperature rise of part/at:		ΔT (K)	Max. dT (K)
Supplementary information:			

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Clause	Requirement + Test	Result - Remark	Verdict

17	**TABLE: Overload protection, resistance method**		**N/A**
	Test voltage (V) .....:		**—**
	Ambient, t_1 (°C) .....:		**—**
	Ambient, t_2 (°C) .....:		**—**

Temperature rise of winding	**R_1 (Ω)**	**R_2 (Ω)**	**ΔT (K)**	**Max. dT (K)**	**Insulation class**
Supplementary information:					

19	**Abnormal operation conditions**	**P**
Operational characteristics	YES/NO	Operational conditions
Are there electronic circuits to control the appliance operation?	Yes	Input: 254.4V
Are there “off” or “stand-by” position?		
The unintended operation of the appliance results in dangerous malfunction?		

Sub-clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.7	See clause 19.7	No hazard was found	N/A	N/A	N/A	N/A	Pass
19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.11.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

19.11.4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.101	See clause 19.101	No hazard was found.	N/A	N/A	N/A	N/A	Pass
Supplementary information:							

19.7	**TABLE: Abnormal operation, locked rotor/moving parts**					**P**
	Test voltage (V) .....:			243.8		—
	Ambient, t_1 (°C) .....:			18.0		—
	Ambient, t_2 (°C) .....:			18.0		—
Temperature rise of winding	**R_1 (Ω)**	**R_2 (Ω)**	**ΔT (K)**	**Max. dT (K)**	**Insulation class**	
Motor winding	52.2	75.6	131.2	215	E	
Supplementary information:						

19.101	**TABLE: Abnormal operation, running continued**					**P**
	Test voltage (V) .....:			254.4		—
	Ambient, t_1 (°C) .....:			18.0		—
	Ambient, t_2 (°C) .....:			18.0		—
Temperature rise of winding	**R_1 (Ω)**	**R_2 (Ω)**	**ΔT (K)**	**Max. dT (K)**	**Insulation class**	
Motor winding	52.5	74.9	127.8	215	E	
Supplementary information:						

19.13	**TABLE: Abnormal operation, thermocouple measurements**		N/A
	Test voltage (V) .....:		—
	Ambient (°C) .....:		—
Thermocouple locations	Max. temperature measured, (°C)	Max. temperature limit, (°C)	
Supplementary information:			

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Clause	Requirement + Test	Result - Remark	Verdict

24.1	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1])
Motor	Cixi Xinghui Motor Co.Ltd	XDS-150	230V 150W	EN60034	VDE TUV
Alt.	Chengzhou Tianyi Electronical Co., Ltd.	XD-150	230V 150W	EN60034	VDE TUV
Capacitor	Cixi Sanbei Town Xingfa Electrical Factory	CBB61	12 μ F 450V AC	EN60252-1	TUV
Alt.	Cixi RiYi Capacitor Factory	CBB60	12 μ F 450V AC	EN60252-1	TUV
Timer	Lingbo Sijia Electrical Co., Ltd	DXT-15SF	230V AC 3.5A	IEC60730-1	TUV
Alt.	Cixi Fuhai Town Ciheng Electronic Factory	DXT15	230V AC 3.5A	IEC60730-1	TUV
Spin switch	Lingbo Sijia Electrical Co., Ltd	XZK-B	230V AC 3A	IEC61058.1	TUV
Alt.	Cixi Fuhai Town Ciheng Electronic Factory	XZK	250V AC 3.5A	IEC61058.1	TUV
Plug	Yuyao Jiaming Electic Appliance Co., Ltd	JM-003A	250V AC 16A	VDE 0620-1	VDE 40032558
Power cord	Yuyao Jiaming Electic Appliance Co., Ltd	H03VV-F	3*0.75mm^2	VDE 0285-525-2-11	VDE 40029177
Internal wire	Various	Various	0.5/0.75mm^2 300/500V	UL 758	UL
Supplementary information: [1]) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

28.1	TABLE: Threaded part torque test		P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)
Fixed enclosure screw	4.0	II	1.2
Power cord fixed screw	4.0	II	1.2

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Clause	Requirement + Test	Result - Remark	Verdict

Ground connect screw	4.0	II	1.2
Supplementary information:			

29.1	TABLE: Clearances					P
	Overvoltage category..... .... :					—
		Type of insulation:				
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**					
500	0,2* / 0,5 / 0,8**					
800	0,2* / 0,5 / 0,8**					
1 500	0,5 / 0,8** / 1,0***					
2 500	1,5 / 2,0***	>3.0	>3.0	>4.0		P
4 000	3,0 / 3,5***				>5.0	P
6 000	5,5 / 6,0***					
8 000	8,0 / 8,5***					
10 000	11,0 / 11,5***					

Supplementary information:

*) For tracks on printed circuit boards if pollution degree 1 and 2
**) For pollution degree 3
***) If the construction is affected by wear, distortion, movement of the parts or during assembly

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage (V)	Creepage distance (mm) Pollution degree										
	1	2			3			Type of insulation			
		Material group			Material group						
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*)	B**)	S**)	R**)	Verdict
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		—	—	
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	—		—	
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	—	—		
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		—	—	
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	—		—	

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Clause	Requirement + Test	Result - Remark	Verdict

125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	—	—		
250	0,56	1,25	1,8	2,5	3,2	3,6	**4,0**	>5.0	—	—	P
250	0,56	1,25	1,8	2,5	3,2	3,6	**4,0**	—	>5.0	—	P
250	1,12	2,5	3,6	5,0	6,4	7,2	**8,0**	—	—	>9.0	P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		—	—	
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—		—	
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—		
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—		
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		—	—	
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—		—	
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—		
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		—	—	
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—		—	
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—		
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		—	—	
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—		—	
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—		

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Clause	Requirement + Test	Result - Remark	Verdict

>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		—	—	
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—		—	
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—		
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		—	—	
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—		—	
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—		
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		—	—	
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—		—	
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—		
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		—	—	
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—		—	
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—		
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		—	—	
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—		—	
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—		
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		—	—	
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—		—	
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—		

Supplementary information:

*) Material group IIIb is allowed if the working voltage does not exceed 50 V
**) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

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
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	
50	0,16	0,56	0,8	1,0	1,4	1,6	1,8	
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	

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Clause	Requirement + Test	Result - Remark	Verdict

250	0,42	1,0	1,4	2,0	2,5	2,8	**3,2**	>4.0
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	

Supplementary information:

*) Material group IIIb is allowed if the working voltage does not exceed 50 V

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Clause	Requirement + Test	Result - Remark	Verdict

30	**TABLE: Resistance to heat and fire**																			
Object/ part No.	Manufacturer / trademark	Type/ model	Ball pressure test °C				Glow wire test (GWT) °C					Glow-wire flammability index (GWFI) °C				Glow-wire ignition temp. (GWIT) °C		Needle - flame test (NFT)	Verdict
			75	125	cl. 11 +40	cl. 19 +25	550	650		750		850	550	650	750	850	675	775		
								te	ti	te	ti									
Enclosure	Cixi Sandie Electrical Co., Ltd	PP	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	--	--	P
Terminal	Jingbi Electronic Co., Ltd	CE2 CE5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	P
Supplementary information:																				

IEC 60335-2-4&7			
Clause	Requirement + Test	Result - Remark	Verdict

[1] Parts of material Classified at least HB40 or if relevant HBF
[2] Parts of material Classified as V-0 or V-1
[3] Flame persisting longer than 2 s (= t_e – t_i) need only be reported for unattended appliances
[4] Surrounding parts subjected to the needle-flame test of annex E
[5] Base material Classified as V-0 or if relevant VTM-0
[6] The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not applicable for attended appliances

List of test equipment used:

A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to TMP/CTF stage 1 or WMT/CTF stage 2 procedure has been used.

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date

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ATTACHMENT TO TEST REPORT IEC 60335-2-4 & 7
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Household and similar electrical appliances – Safety –
Part 2-4: Particular requirements for spin extractors

Part 2-7: Particular requirements for washing machines

Differences according to:	EN 60335-2-4:2010 +EN 60335-2-7 2010 +A11:2013+A1:2013 in conjunction with EN 60335-1:2012 EN 62233:2008
Attachment Form No.:	EU_GD_IEC60335_2_4 & 7 G
Attachment Originator:	EUROFINS
Master Attachment:	2014-10

	CENELEC COMMON MODIFICATIONS		
6.1	Delete “class 0” and “class 01”		N/A
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		N/A
	An indication that the device has been operated is given by:		N/A
	• a tactile feedback, or		N/A
	• an audible and visual feedback		N/A
	•		
7.12	The instructions include the substance of the following:		P
	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P
	- children shall not play with the appliance		P
	- cleaning and user maintenance shall not be made by children without supervision		P
	Maximum mass of dry cloth in kilograms, specified (IEC 60335-2-7)	6.8kg	P
7.12.1	*Addition*: For washing machines having ventilation openings in the base, the installation instructions shall state that the openings must not be obstructed by a carpet （EN60335-2-7）		P
	The caution relating to connection to the hot water supply shall be on the appliance at its point of attachment to the water supply (IEC 60335-2-7)		N/A
7.12.Z1	The specific instructions related to the safe operation of this appliance is collated together in the front section of the user instructions		P
	The height of the characters, measured on the capital letters, is at least 3 mm		P

	These instructions are also available in an alternative format, e.g. on a website		N/A
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test		P
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		P
	parts intended to be removed for user maintenance are also not removed		P
8.2	Compliance is checked by applying the test probes of EN 61032		P
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		N/A
11.8	Footnotes to “External enclosure of motor-operated appliances” to be taken into account		N/A
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
15.2	Add before the last paragraph:		P
	For appliances having a working surface, the test is repeated with the appliance tilted at an angle of 2° in relation to the position of normal use in the direction which is likely to be the most unfavourable. (EN 60335-2-7)		P
	The lid of top loading appliances is considered as a working surface if it is flat enough to put something on. (EN 60335-2-7)		P
18	Endurance		
	Compliance is checked by the tests. After the tests, the interlock shall be fit for further use and compliance with the relevant requirements of 20.103 shall not be impaired. (EN 60335-2-7)		P
19.13	During the tests of 19.101 and 19.102, the temperature of windings shall not exceed the values specified in Table 8.		P

	The appliance shall comply with the appropriate requirements of 20.1 03 and 20.104 if it can still be operated		P
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		P
	Test probe 18 applied with a force of 2,5N on the appliance fully assembled		P
20.101	For appliances of the drum type, the drum drive motor shall be de-energized before the opening of the lid or door exceeds 50 mm. (EN 60335-2-7)		P
	If a removable or sliding lid is provided, the motor shall be de-energized as soon as the lid is removed or		P
	displaced and it shall not be possible to start the motor unless the lid is in the closed position. (EN 60335-2-7)		P
20.103	For appliances of the drum type, it shall only be possible to energize the drum drive motor when the lid or door is in the closed position (EN 60335-2-7)		P
	Compliance is checked by inspection and by manual test using test probe B of IEC 61032 in an attempt to override the locking function.		P
20.104	It shall not be possible to open the lid or door of an appliance while the drum speed exceeds 60 r/min.		P
	The appliance is supplied at rated voltage and operated empty or filled as specified for normal It shall not be possible to open the lid or door while the drum speed exceeds 60 r/min operation, whichever is more unfavourable. The force determined during the test of 22.104 with the lid or		P
	door locked is applied to the lid or door in an attempt to open it.		N/A
21.101	Lids or doors of appliances shall have adequate mechanical strength. Compliance is checked by the following test. (EN 60335-2-7)		P

21.101.1	Appliances with doors are positioned so that the door is in a horizontal plane. A rubber hemisphere having a diameter of 70 mm and a hardness between 40 IRHD and 50 IRHD is fixed to a cylinder having a mass of 20 kg and dropped from a height of 100 mm onto the centre of the lid or door. The test is carried out three times, after which the lid or door shall not be damaged to the extent that moving parts become accessible. (EN 60335-2-7)		P
21.101.2	A vertically downwards force of 150 N is applied in the most unfavourable position to the door while it is open at an angle of 90° ± 5°. The force is maintained for 1 min.		P
	After the test, the appliance shall not be damaged or deformed to such an extent that compliance with 20.103 and 20.104 is impaired		P
21.102	A force of 50 N is applied to the open lid in the most unfavourable direction and position (IEC 60335-2-7)		P
	The test is carried out three times, after which the hinges shall not have worked loose and the appliance shall not be damaged or deformed to such an extent that compliance with 20.10 3 and 20.104 is impaired. (IEC 60335 2 7)		P
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		P
	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		P
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		P
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		P

	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant standard, and		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P
	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance		N/A
	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		N/A
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		N/A
	if direct supply to these parts from the supply mains gives rise to a hazard		N/A
24.1.4	For lid or door, interlocks, the number of cycles of operation declared for Subclauses 6.10 and 6.11 of IEC 60730-2-12 shall not be less than 6 000. (EN 60335-2-24)		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 EN 41003		N/A
	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		N/A

24.Z1	For motor running capacitors (IEC 60252-1 type P2) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary		P
25.6	Supply cords of single-phase portable appliances having a rated current not exceeding 16 A, fitted with a plug complying with the following standard sheets of IEC/TR 60083:		--
	- for Class I appliances: standard sheet C2b, C3b or C4 .....:		P
	- for Class II appliances: standard sheet C5 or C6 .....:		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		--
	• halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg		N/A
	• halogen-free thermoplastic compound sheathed cords (H05Z1Z1H2-F or H05Z1Z1-F), for other appliances		N/A
	Cross-linked halogen-free compound sheathed supply cords have properties at least those of cross-linked halogen-free compound sheathed cords (H07ZZ-F)		N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		P
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		P
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		N/A
	The duration of the test is as specified in 19.7		N/A

ZA	**ANNEX ZA** (NORMATIVE) **SPECIAL NATIONAL CONDITIONS**		--
	Norway		N/A
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		N/A
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
	All CENELEC countries		N/A
25.6 and 25.25	Information concerning National plug and socket-outlets is available from the CENELEC website. Normative national requirements concerning plug and socket-outlets are shown in the relevant National standard		N/A
	Ireland and United Kingdom		N/A
25.8	In the table, the lines for 10 A and 16 A are replaced by:		--
	> 10 and ≤ 13 1,25		N/A
	> 13 and ≤ 16 1,5		N/A
ZB	**ANNEX ZB** (INFORMATIVE) **A-DEVIATIONS**		--
	Ireland		N/A
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A
	United Kingdom		N/A

25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N/A
ZC	**ANNEX ZC** (NORMATIVE) **NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS**		--
	A list of referenced documents in this standard		N/A
ZD	**ANNEX ZD** (INFORMATIVE) **IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS**		--
	A table with IEC and CENELEC code designations for flexible cords		N/A
ZE	**ANNEX ZE** (INFORMATIVE) **SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE**		--
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative.....:		N/A
	Model or type reference .....:		N/A
	Serial number, if any .....:		N/A
	Production year		N/A
	Designation of the appliance.....:		N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely		N/A
	The instructions contain at least the following information:		--
	- the business name and full address of the manufacturer and, where applicable, his authorized representative		N/A
	- model or type reference of the appliance as marked on the appliance itself, except for the serial number		N/A
	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers		N/A
	- the general description of the appliance, when needed due to the complexity of the appliance		N/A

	- specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving		N/A
	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance		N/A
	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance		N/A
	The words “Original instructions” appear on the language version(s) verified by the manufacturer or by the authorized representative		N/A
	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence “Translation of the original instructions” appear in the relevant instructions delivered with the appliance		N/A
	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand		N/A
	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures		N/A
7.12.ZE1	If needed for specific appliances, the following information to be given:		
	• on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts		N/A
	• on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
	• on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
	• on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance		N/A

	• on the specifications on the spare parts to be used, when these affect the health and safety of the operator		N/A
	• on airborne noise emissions, determined and declared in accordance with the relevant Part 2, which includes:		--
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A) .....;		N/A
	- where this level does not exceed 70 dB(A), this fact is indicated		N/A
	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa).....:		N/A
	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A) .....:		N/A
7.12.ZE2	The instructions includes a warning to disconnect the appliance from its power source during service and when replacing parts		N/A
	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed		N/A
	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided		N/A
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or		N/A
	a manual operation is required to restart it		N/A
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance		N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards		N/A
	When guards are used, they are fixed guards, interlocking movable guards or protective devices		N/A
	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible fitted with:		--

	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and		N/A
	- adjustable guards restricting access to those sections of the moving parts where access is necessary		N/A
	Interlocking movable guards used where frequent access is required		N/A
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability		N/A
	The distance between the seat and the control devices capable of being adapted to the operator		N/A
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function		N/A
	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function		N/A
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation		N/A
	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure		N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or		N/A
	so designed that they can be fitted with such attachments, or		N/A
	be shaped in such a way that standard lifting gear can easily be used		N/A
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely		N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools		N/A

	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal		N/A
	Where possible, guards are incapable of remaining in place without their fixings		N/A
	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative		N/A
	Movable guards are interlocked		N/A
	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed		N/A
	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:		--
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and		N/A
	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased		N/A
	Interlocking movable guards remain attached to the appliance when open, and		N/A
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions		N/A
	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2.....:		N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time		N/A
	After these tests the interlock system is fit for further use		N/A
22.ZE.7	Adjustable guards restricting access to areas of the moving parts strictly necessary for the work are:		--
	- adjustable manually or automatically, depending on the type of work involved, and		N/A

	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources		N/A
	Such isolators are clearly identified, and		N/A
	they are capable of being locked if reconnection endanger persons		N/A
	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A
ZF	**ANNEX ZF** (INFORMATIVE) **CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD**		--
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive).....:		N/A
ZG	**ANNEX ZG** (NORMATIVE) **UV APPLIANCES**		--
	The following modifications to this standard apply to appliances having UV emitters		N/A
	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109		N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source		N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant		N/A
ZZ	**ANNEX ZZ** (INFORMATIVE) **COVERAGE OF ESSENTIAL REQUIREMENTS OF EC DIRECTIVES**		

	Description of the relation between this European standard and the LVD (Low Voltage Directive, 2006/95/EC) and the MD (Machinery Directive, 2006/42/EC)		N/A

Annex EN 62233:2008			
Clause	Requirement + Test	Result - Remark	Verdict
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008		P
	Limit ……100%	Measured max. :…….%	10.7%

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Appendix 1
Equipment List

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
01	Hybrid Recorder	Yokogawa	DR130	27D216293	2016.1.4	2017.1.3
02	Hybrid Recorder	Yokogawa	DR130	27D216294	2016.1.4	2017.1.3
03	Data Acquisition / Switch Unit	Agilent	34970A	MY41027365	2016.1.4	2017.1.3
04	Data Acquisition / Switch Unit	Agilent	34970A	MY41025924	2016.1.4	2017.1.3
05	Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2016.1.4	2017.1.3
06	Oven Chamber	Rongfeng	101A-3	900875	2016.1.4	2017.1.3
13	Oscilloscope	Tektronix	TDS2012	C035606	2016.1.4	2017.1.3
14	Oscilloscope	Tektronix	TDS3012B	B035855	2016.1.4	2017.1.3
15	Digital Power Meter	Qingzhi	8716C	870307119	2016.1.4	2017.1.3
16	Digital Power Meter	Ainuo	8715B	038710069	2016.1.4	2017.1.3
17	Digital Power Meter	Everfine	YF9901	405075	2016.1.4	2017.1.3
18	Ohm Meter	Yang Zi	YD2511	794	2016.1.4	2017.1.3
19	Multi Meter	Fluke	111	85150263	2016.1.4	2017.1.3
20	Multi Meter	Fluke	111	85150223	2016.1.4	2017.1.3
22	Desktop Multi Meter	Fluke	45	8392013	2016.1.4	2017.1.3
23	Desktop Multi Meter	Good Will	GDM-8245	E830573	2016.1.4	2017.1.3
24	Desktop Multi Meter	Good Will	GDM-8245	E830574	2016.1.4	2017.1.3
25	Hi-Pot Tester	Ainuo	9604	039609405	2016.1.4	2017.1.3
26	Grounding Bond Meter	Ainuo	9613B	039606212	2016.1.4	2017.1.3
27	Leakage Current Meter	EXTECH	7611	1330308	2016.1.4	2017.1.3
29	Insulation Resistance Tester	Yang Zhi	YD2683	030	2016.1.4	2017.1.3
30	Digital Power Meter	Qingzhi	8716C	870307126	2016.1.4	2017.1.3
32	Push-Pull Scale	Japan Instrumentation	NK-300	49779	2016.1.4	2017.1.3
33	Test hook	Zhilitong	TH-1	W8L180T1	2016.1.4	2017.1.3
40	Tumbling Barrel	Zhilitong	GT-1	G010104	2016.1.4	2017.1.3
41	Audio Generator	Good Will	GAG-810	D913311	2016.1.4	2017.1.3
42	Noise Generator	DM	DM8898	D826715	2016.1.4	2017.1.3
43	Plug Torque Tester	Zhilitong	LJ-1	LJ010104	2016.1.4	2017.1.3
44	Shot Test Pin Probe	Zhilitong	ZP-1	44/ATCS-44	2016.1.4	2017.1.3
45	Test Probe 41	Zhilitiong	ZT-1	D30L80/ATCS-45	2016.1.4	2017.1.3
46	Finger Nail Probe	Zhilitong	ZJ-1	D14N30/ATCS-46	2016.1.4	2017.1.3
47	Test Finger Probe	Zhilitong	ZF-1	X010106/ATCS-47	2016.1.4	2017.1.3
48	Accessibility Probe	Zhilitong	ZA-1	A010102/ATCS-48	2016.1.4	2017.1.3
49	UL Finger Probe	America	ULP-01	A01/ATCS-49	2016.1.4	2017.1.3
50	Rigid Finger Probe	Zhilitong	TZ-1	L010304	2016.1.4	2017.1.3
51	Test Probe	Zhilitong	TZ-11	D4L100/ATCS-51	2016.1.4	2017.1.3
52	Test Probe	Zhilitong	TZ-12	D3L100/ATCS-52	2016.1.4	2017.1.3
53	Test Probe	Zhilitong	TZ-13	D1L20/ATCS-53	2016.1.4	2017.1.3
54	Test Probe	Zhilitong	TZ-14	D40/ATCS-54	2016.1.4	2017.1.3
55	Steel Ball	Zhilitong	ZB-1	D5W500	2016.1.4	2017.1.3
58	DC Power Supply	All Power	IP50-20D	401024	——	——
59	DC Power Supply	Chuang Hong	CPS-5030D	04021101	——	——
60	Isolating Transformer	Kong Tel	5KVA	002	——	——
61	Hammer	Guangdong Zhijian	CJ-2	24003	2016.1.4	2017.1.3
62	Hammer	Zhilitong	CJ-2	C021204	2016.1.4	2017.1.3
63	Hammer	Guangdong Zhijian	CJ-2	24004	2016.1.4	2017.1.3
64	Hammer	Zhilitong	CJ-2	C021104	2016.1.4	2017.1.3
65	Torque Driver	kanon	30LTDK	04C175	2016.1.4	2017.1.3
66	Torque Driver	kanon	12LTDK	04A037	2016.1.4	2017.1.3

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
67	AC Voltage Stabilizer	Sanke Electrical	SVC-30KVA	31208433081	——	——
68	AC Voltage Stabilizer	Sanke Electrical	SVC-30KVA	31208455481	——	——
69	Frequency Converter Power Supply	All Power	AFC-220	890411	——	——
74	Switching Mode Power Supply	Manson	SIM-9106	350400004	2016.1.4	2017.1.3
75	Tape line	Great Wall	GW-589E	18955	2016.1.4	2017.1.3
76	Platform Scale	Shanghai	TGT-100	ATCS-76	2016.1.4	2017.1.3
77	Timer	Tian Fu	PC396	AT24H	2016.1.4	2017.1.3
78	Digital Power Meter	Qingzhi	8716C	870512009	2016.1.4	2017.1.3
79	Digital Power Meter	Qingzhi	8716C	870512012	2016.1.4	2017.1.3
80	Digital Power Meter	Everfine	PF9805	301020	2016.1.4	2017.1.3
81	Digital Power Meter	iDRC	CP-280	280887	2016.1.4	2017.1.3
82	Data Acquisition / Switch Unit	Agilent	34970A	MY44008068	2016.1.4	2017.1.3
83	Glow Wire Test Set	Zhilitong	GTR-B	R024007	2016.1.4	2017.1.3
84	Needle Flame Test Set	Zhilitong	ZY-2	Y021507	2016.1.4	2017.1.3
87	Switching Mode Power Supply	Manson	SIM-9303	G290700126	——	——
88	Ball Pressure Tester	Zhilitong	QY-1	Q013408/ATCS-88	2016.1.4	2017.1.3
89	Ball Pressure Tester	Zhilitong	QY-1	Q013508/ATCS-89	2016.1.4	2017.1.3
90	Oscilloscope voltage probe (100X)	Tektronix	P5100	23489-6	2016.1.4	2017.1.3
91	K type thermocouple	OMEGA	TT-K-30-1000	ATCS-91	2016.1.4	2017.1.3
92	J type thermocouple	OMEGA	TT-J-30-1000	ATCS-92	2016.1.4	2017.1.3
93	Small finger probe (Φ8.6)	HUANAN	EX-A02	ATCS-93	2016.1.4	2017.1.3
94	Small finger probe (Φ5.6)	HUANAN	EX-A02	ATCS-94	2016.1.4	2017.1.3
95	Draught-proof enclosure	Shanghai Jingtian	DMS-B12	DAMS2009110136	2016.1.4	2017.1.3
96	Proof tracking Test Apparatus	Shenzhen Demaisheng	LD-H	TI09101201	2016.1.4	2017.1.3
97	228 meter	SIMPSON	228	10-866030	2016.1.4	2017.1.3
98	Digital Caliper	Guang Lu	(0-150mm)/ 0.01mm	090074695	2016.1.4	2017.1.3
99	Torque Driver	Kanon	10DPSK	0907005	2016.1.4	2017.1.3
100	Digital Power Meter	Yokogawa	WT110	12VC26618M	2016.1.4	2017.1.3
101	Desktop Multi Meter	Fluke	45	7664009	2016.1.4	2017.1.3
102	Steel Ball	XINNA	YD2810B	11051101	2016.1.4	2017.1.3
104	Digital Power Meter	Qingzhi	8716C	871102401	2016.1.4	2017.1.3
105	Data Acquisition / Switch Unit	Agilent	34970A	MY44060502	2016.1.4	2017.1.3
106	K type thermocouple	OMEGA	TT-K-30	ATCS-106	2016.1.4	2017.1.3
107	E27 Cap "GO" Gauge	Guangzhou Gerui	7006-27B-1	GRT110727002	2016.1.4	2017.1.3
108	E27 Cap "NOT GO" Gauge	Guangzhou Gerui	7006-28A-1	110711012	2016.1.4	2017.1.3
109	E27 Cap "GO" Gauge for dimension S1	Guangzhou Gerui	7006-27C-1	110720005	2016.1.4	2017.1.3
110	E27 Cap Gauge for testing contact making	Guangzhou Gerui	7006-50-1	110711013	2016.1.4	2017.1.3
111	E27 Cap Gauge for testing contact making	Guangzhou Gerui	7006-51-2	110711005	2016.1.4	2017.1.3
112	E27 Cap Gauge for testing protection against accidental contact during insertion	Guangzhou Gerui	7006-51A-2	110720008	2016.1.4	2017.1.3
113	E14 Cap "GO" Gauge	Guangzhou Gerui	7006-27F-1	110711046	2016.1.4	2017.1.3
114	E14 Cap "NOT GO" Gauge	Guangzhou Gerui	7006-28B-1	110711044	2016.1.4	2017.1.3
115	E14 Cap "GO" Gauge for dimension S1	Guangzhou Gerui	7006-27G-1	110711050	2016.1.4	2017.1.3
116	E14 Cap Gauge for testing contact making	Guangzhou Gerui	7006-54-2	110711040	2016.1.4	2017.1.3

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
117	E14 Cap Gauge for testing protection against accidental contact	Guangzhou Gerui	7006-55-2	110711037	2016.1.4	2017.1.3
118	G13 "GO" Gauge	Guangzhou Gerui	7006-45-4	GRT11092730	2016.1.4	2017.1.3
119	G13 "GO" and "NOT GO" Gauge	Guangzhou Gerui	7006-44-4	GRT11092731	2016.1.4	2017.1.3
120	Power cord flexing and swivel tester	DEMAISHENG	DMS-801H	2011DMS-801H0902	2016.1.4	2017.1.3
121	10 kV surge tester	CEPREI	1065A	1108AG41	2016.1.4	2017.1.3
122	Cylindrical contact plane(Φ12.7)	Zhilitong	Φ12.7mm	ATCS-122	2016.1.4	2017.1.3
123	Cylindrical contact plane(Φ30)	Zhilitong	Φ30mm	ATCS-123	2016.1.4	2017.1.3
124	0.1Ω constant resistance	Zhilitong	0.1Ω	ATCS-124	2016.1.4	2017.1.3
125	30A Current Shunt	Agilent	34330A	0418	2016.1.4	2017.1.3
126	Test Probe	Zhilitong	ZLT-I23	I231201	2016.1.4	2017.1.3
127	Test A Probe	Zhilitong	ZLT-I01	I011201	2016.1.4	2017.1.3
128	Test C Probe	Zhilitong	ZLT-I03	I031201	2016.1.4	2017.1.3
129	Test D Probe	Zhilitong	ZLT-I04	I041203	2016.1.4	2017.1.3
130	Test 31 Probe	Zhilitong	ZLT-I14	I141201	2016.1.4	2017.1.3
131	Wedge-shaped test probe	Zhilitong	ZLT-U14	U141202	2016.1.4	2017.1.3
132	Hammer	Zhilitong	ZLT-CJ1	C011208	2016.1.4	2017.1.3
133	Steel Ball(Φ12.5)	Zhilitong	ZLT-I06	I061201	2016.1.4	2017.1.3
134	Tumbling Barrel	Zhilitong	ZLT-GT2	G021202	2016.1.4	2017.1.3
136	Transformer bump testing appliance	SHENZHEN GANGWEI	ATCS-136	ATCS-136	2016.1.4	2017.1.3
137	HOT WIRE ANEMOMETER	Lutron	AM-4204	Q619466	2016.1.4	2017.1.3
138	Magnifier	ZHONGXUN	ATCS-138	3001003939	2016.1.4	2017.1.3
139	Digital Protractor	GUANGZHOU XINHE	82201B-00	ATCS-139	2016.1.4	2017.1.3
140	Test chain	GUANGZHOU XINHE	SH3306	50612	2016.1.4	2017.1.3
141	G13 lamp holder test fixture	SHENZHEN GANGWEI	ATCS-141	ATCS-141	——	——
142	Digital Power Meter	YOKOGAWA	WT210	91F603491	2016.1.4	2017.1.3
143	Leakage Current Meter	CHANGSHENG	CS5520E	1109203-002	2016.1.4	2017.1.3
144	Oscilloscope voltage probe (1000X)	Tektronix	P6015	010-0131-00	2016.1.4	2017.1.3
145	Electronic Scale	XIANGSHAN	ACS-6-ZE1	3050111	2016.1.4	2017.1.3
146	High-frequency spark generator	SPKM	SPKM-M15	19121366236	——	——
147	Frequency Converter Power Supply	APE	AFR-230	991787	——	——
148	Touch Current Meter	CEPREI	421A	1309AG20	2016.1.4	2017.1.3
149	Hi-Pot Tester	KIKUSUI	TOS5051	EL003517	2016.1.4	2017.1.3
150	Electronic Thermo-Hygrometer	YINDU	YD-HT818J	YD1404172	2016.1.4	2017.1.3
151	Electronic load	Chroma	6304	63044415	2016.1.4	2017.1.3
152	Digital Caliper	Guang Lu	(0~150mm)/0.01mm	K14M019684	2016.1.4	2017.1.3
153	Digital Caliper	Guang Lu	(0~150mm)/0.01mm	K14M019452	2016.1.4	2017.1.3
E30	LCR bridge	YANGZHI	YD2810B	272	2016.1.4	2017.1.3
E53	Exposure level tester	NARDA	2304/03	B-0138	2016.1.4	2017.1.3
E54	Magnetic field probe 100cm2	NARDA	2300/90.10	B-0137	2016.1.4	2017.1.3

Appendix 2:
Photo documentation

Photo 1 View: [√] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [ ] internal	
Photo 2 View: [ ] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [√] internal	

Photo documentation

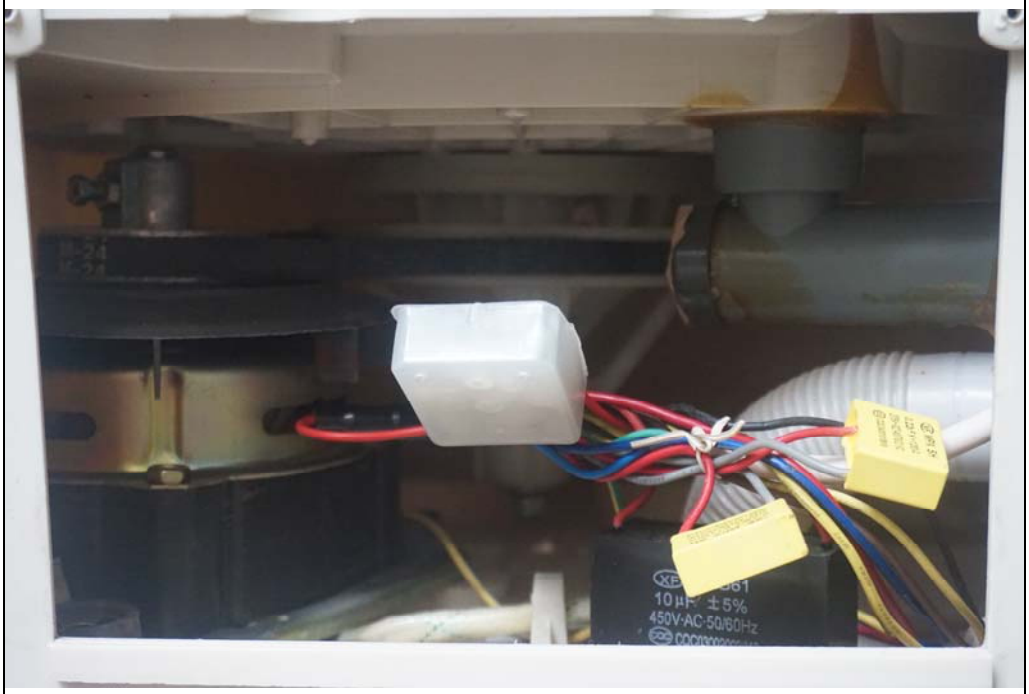
Photo 3 View: [√] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [ ] internal	
Photo 4 View: [ ] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [√] internal	

Photo documentation

Photo 5 View: [√] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [ ] internal	

The end of report