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检测
TESTING
CNAS L5510

TEST REPORT

REPORT Ref. No.: RZCEJX2024-0126-LVD


NAME OF SAMPLE: Auto Tumble Dryer

CLIENT: Anhui Osvo Science & Technology CO., LTD

CLASSIFICATION OF TEST: Commission Test

CVC Testing Technology (Jiaxing) Co., Ltd.

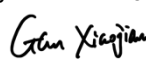
TEST REPORT

Name of product: Auto Tumble Dryer	Trade mark: 
GDZ40-458E, GDZ40-418E, GDZ40-468E, GDZ40-428E, GDZ40-498E, GDZ40-518E Capacity:4.0kg; GDZ30-458E, GDZ30-418E, GDZ30-468E, GDZ30-428E, GDZ30-498E, GDZ30-518E Capacity:3.0kg; GDZ25-458E, GDZ25-418E, GDZ25-468E, GDZ25-518E Capacity:2.5kg; 220-240V~ 50-60Hz 1000W IPX4	Sample status: Q.C
Manufacturer: Anhui Osvo Science &Technology CO., LTD	Commissioned by: Anhui Osvo Science &Technology CO., LTD
Manufacturer address: High. Tech zone, Yu'an District, Lu 'an City, Anhui Province, P. R .China	Commissioner address: High. Tech zone, Yu'an District, Lu 'an City, Anhui Province, P. R .China
Quantity of sample: 16	Sampled by: —
Sample identification: 16-1.16-2...16-16	Sampling at (place): —
Means of receiving: Submitted by the manufacturer	Means of sampling: —
Classification of test: Commission Test	Sampling date: —
Receiving date: 2024.07.24	Completing date: 2024.09.03
Tested according to: EN 60335-1:2012+AC:2014+A11:2014+A13:2017+ A1:2019+ A14:2019+A2:2019+A15:2021 EN IEC 60335-2-11:2022+A11:2022	Test item: Full safety tests
Test conclusion: The appliance submitted by the client are tested according to following standards: EN 60335-1: 2012 + AC:2014 + A11:2014+A13:2017+ A1:2019+ A14:2019+A2:2019+A15:2021 Household and similar electrical appliances – Safety Part 1: General requirements EN IEC 60335-2-11:2022+A11:2022 Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers Test result: the submitted samples comply with the requirements of specified standards Seal of CVC Date of issue: 2024-09-14	


Approved by: Chen Haiyong



Reviewed by: Gan Xiaojian



Tested by: Wang Yifan



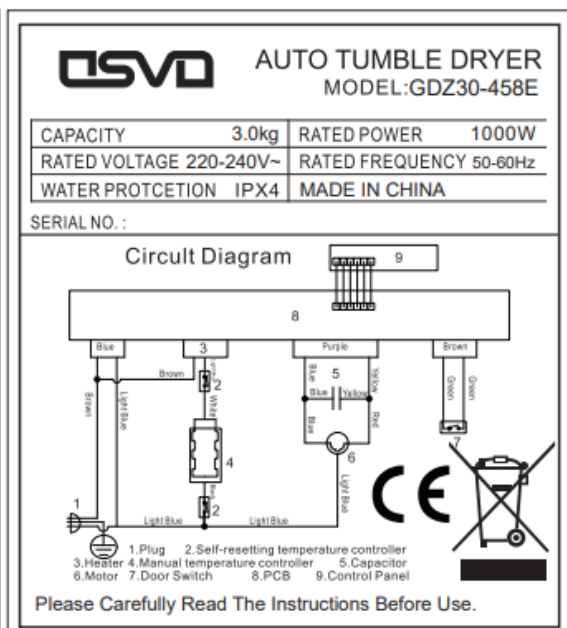
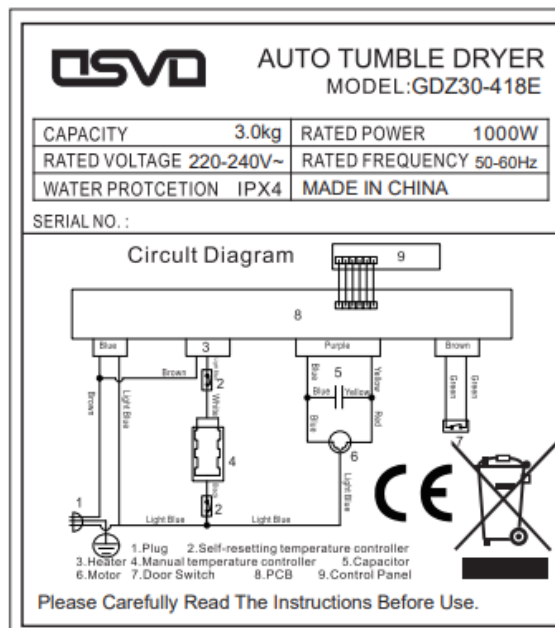
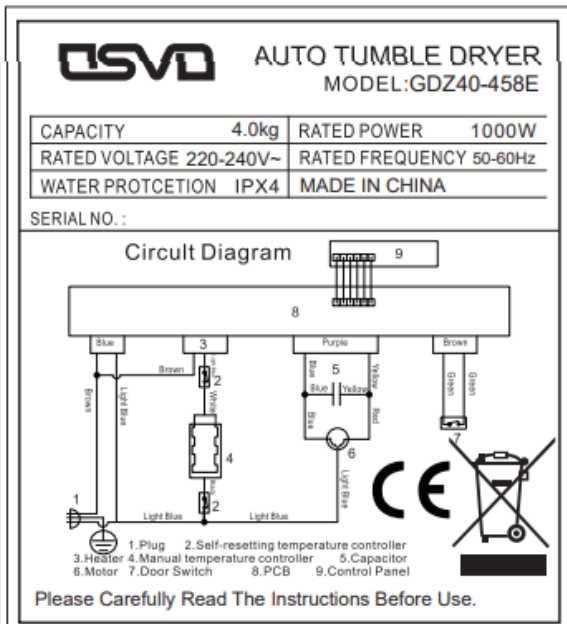
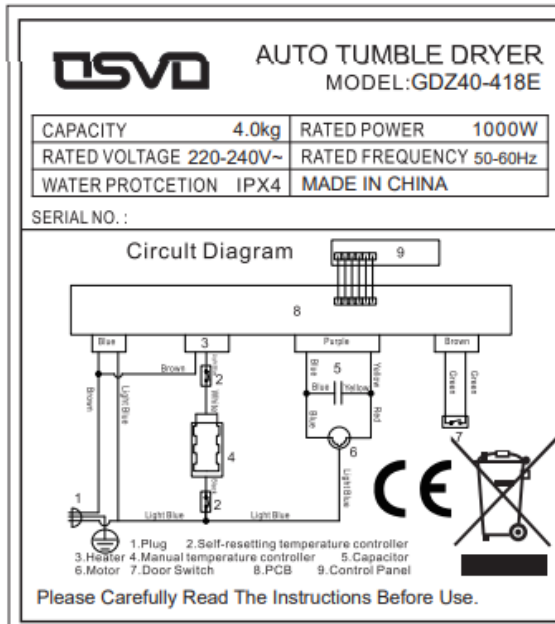
List of Attachments (including a total number of pages in each attachment): Attachment 1: Photos of appliance. (Total number of pages: 20 pages)	
Summary of testing: The submitted samples complied with the requirements of specified standards.	
Tests performed (name of test and test clause): Full tests were carried out on model GDZ40-468E. Tests of clause 7, 8, 10, 11, 13, 19, 21, 22 and 24 were respectively carried out on model GDZ40-418E again with the alternative control board (1 model), PTC (1 model), motor thermal cut-out (1 model). Tests of clause 7, 8, 10, 20, 21, 22, 29 were carried out on model GDZ40-428E, GDZ40-498E, GDZ40-518E with alternative display board. Tests of clause 7, 8, 10, 20, 21 and 22 were carried out on model GDZ30-468E, GDZ25-468E. Tests of clause 7, 8, 21 and 22 were respectively carried out on the other models.	Testing location: CVC Testing Technology (Jiaxing) Co., Ltd. Building 3, Jiaxing Advanced Business Park, Nanhu District, Jiaxing, Zhejiang, P.R.China

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective bodies that own these marks.

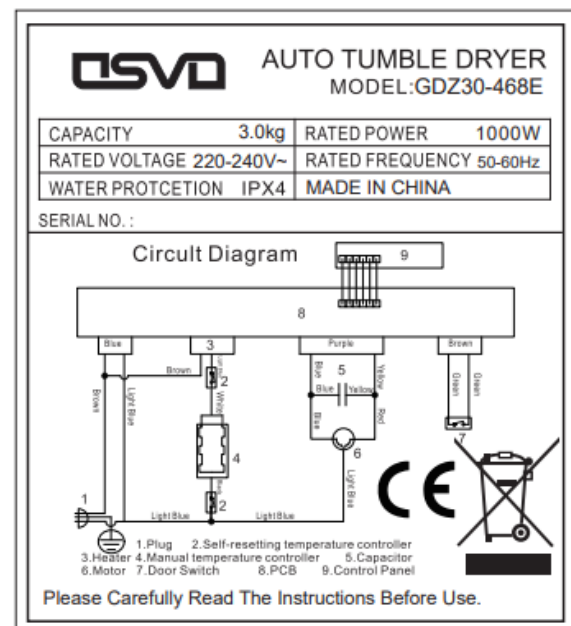
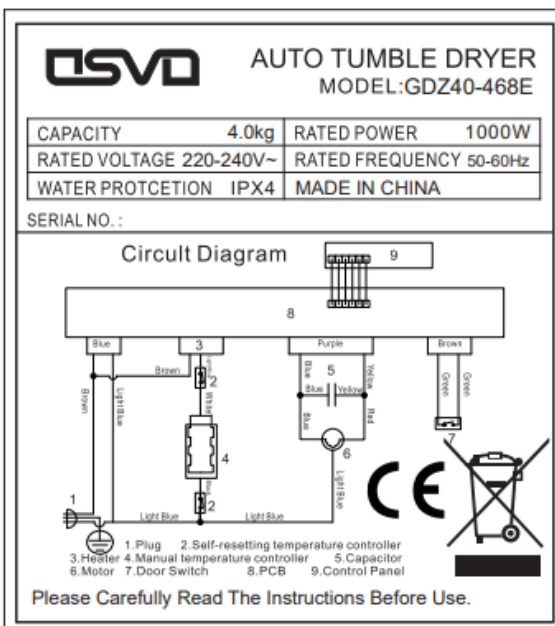
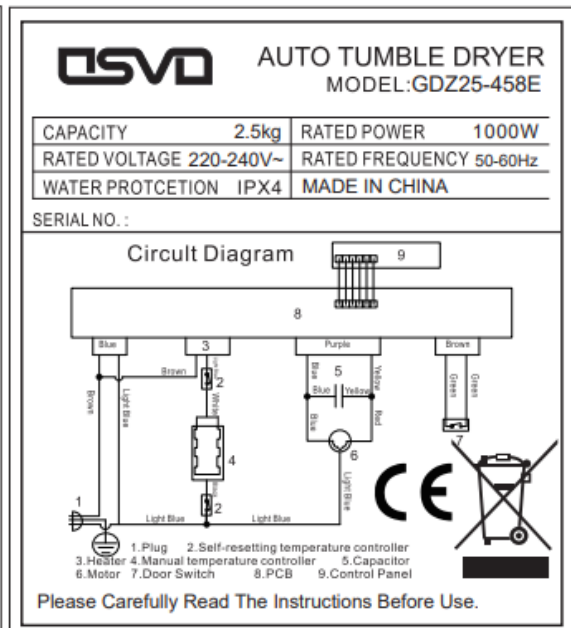
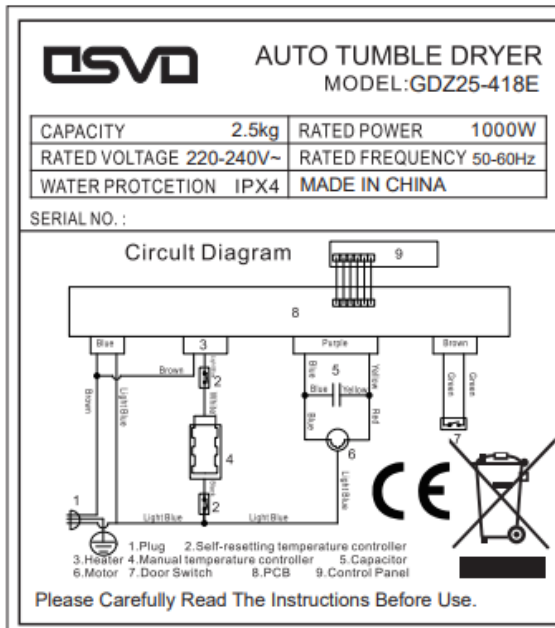
The paste position: the back of appliance

The material of marking plate: sticker with plastic film mulch



Copy of marking plate:

The artwork below may be only a draft.



Copy of marking plate:

The artwork below may be only a draft.

OSVO AUTO TUMBLE DRYER
MODEL:GDZ40-518E

CAPACITY	4.0kg	RATED POWER	1000W
RATED VOLTAGE	220-240V~	RATED FREQUENCY	50-60Hz
WATER PROTECTION	IPX4	MADE IN CHINA	

SERIAL NO. :

Circuit Diagram

1.Plug 2.Self-resetting temperature controller
3.Heater 4.Manual temperature controller 5.Capacitor
6.Motor 7.Door Switch 8.PCB 9.Control Panel

Please Carefully Read The Instructions Before Use.

OSVO AUTO TUMBLE DRYER
MODEL:GDZ30-518E

CAPACITY	3.0kg	RATED POWER	1000W
RATED VOLTAGE	220-240V~	RATED FREQUENCY	50-60Hz
WATER PROTECTION	IPX4	MADE IN CHINA	

SERIAL NO. :

Circuit Diagram

1.Plug 2.Self-resetting temperature controller
3.Heater 4.Manual temperature controller 5.Capacitor
6.Motor 7.Door Switch 8.PCB 9.Control Panel

Please Carefully Read The Instructions Before Use.

OSVO AUTO TUMBLE DRYER
MODEL:GDZ25-518E

CAPACITY	2.5kg	RATED POWER	1000W
RATED VOLTAGE	220-240V~	RATED FREQUENCY	50-60Hz
WATER PROTECTION	IPX4	MADE IN CHINA	

SERIAL NO. :

Circuit Diagram

1.Plug 2.Self-resetting temperature controller
3.Heater 4.Manual temperature controller 5.Capacitor
6.Motor 7.Door Switch 8.PCB 9.Control Panel

Please Carefully Read The Instructions Before Use.

OSVO AUTO TUMBLE DRYER
MODEL:GDZ25-468E

CAPACITY	2.5kg	RATED POWER	1000W
RATED VOLTAGE	220-240V~	RATED FREQUENCY	50-60Hz
WATER PROTECTION	IPX4	MADE IN CHINA	

SERIAL NO. :

Circuit Diagram

1.Plug 2.Self-resetting temperature controller
3.Heater 4.Manual temperature controller 5.Capacitor
6.Motor 7.Door Switch 8.PCB 9.Control Panel

Please Carefully Read The Instructions Before Use.

Test item particulars :		
Classification of installation and use : Stationary appliances		
Supply Connection : Supply cord with a plug, Type Y attachment		
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..... : 2024.07.24		
Date (s) of performance of tests..... : 2024.07.24 - 2024.09.03		
General remarks:		
<p>"(See Enclosure #)" refers to additional information appended to the report.</p> <p>"(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>		
General product information:		
<p>The auto tumble dryer with capacitive motor and PTC heating element. It can be placed on the horizontal support as stationary appliance.</p> <p>The electric constructions of all models (see page 2) are equal in safety related aspects, except for differences on appearance (see photos), capacity, display board(see photos), control board which the each model used (see following table), there isn't any other difference for these models.</p>		
model	control board	appearance and display board
GDZ40-468E, GDZ30-468E, GDZ25-468E	GDZ60-618E	Same
GDZ40-458E, GDZ30-458E, GDZ25-458E	LT-GYJ-P01	Same
GDZ40-498E, GDZ30-498E		Same
GDZ40-418E, GDZ30-418E, GDZ25-418E		Same
GDZ40-428E, GDZ30-428E		Same
GDZ40-518E, GDZ30-518E, GDZ25-518E		Same
<p>For above differences, the test performed refers to page 3.</p>		
Factory information:		
<p>Anhui Osvo Science &Technology CO., LTD</p> <p>NO.8 High.Tech zone ,Yu'an District, Lu 'an City, Anhui Province,P.R.China</p>		

EN 60335-2-11			
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
6	CLASSIFICATION		—
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Class I	P
	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part		N/A
6.2	Protection against harmful ingress of water		P
	Appliances shall be at least IPX4. (IEC 60335-2-11)	IPX4	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.....	1000W	P
	Rated current (A)		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark	Anhui Osvo Science & Technology CO., LTD	P
	Model or type reference	GDZ40-468E others see page 2	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0	IPX4	P
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		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
	The appliances shall be marked with the symbol ISO 7000-0790 (DB:2004-01) or with the substance of the following (IEC 60335-2-11) "Read the instructions"		P
7.2	Warning for stationary appliances for multiple supply		N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	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	220-240V	P
	Different rated values marked with the values separated by an oblique stroke		N/A
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible		N/A
	Requirement met if frequent changes are not required and the rated voltage or rated frequency 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		P
	the power input is related to the arithmetic mean value of the rated voltage range		P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.7	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:		P
	- marking of terminals exclusively for the neutral conductor (letter N)		P
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		P
7.9	Marking or placing of switches which may cause a hazard		N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means..... :	figures, letters	P
	This applies also to switches which are part of a control		P
	If figures are used, the off position indicated by the figure 0		N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		N/A
	If the off position is only indicated by letters, the word "off" shall be used (IEC 60335-2-11)		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:		P
	- 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 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 being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated :		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
	The instructions for use shall state (IEC 60335-2-11):		P
	- maximum mass of dry textile material in kilograms to be used in the appliance	4.0kg others see page 2	P
	-that the tumble dryer is not to be used if industrial chemicals have been used for cleaning;		P
	- that the lint trap has to be cleaned frequently, if applicable		P
	-that lint must not to be allowed to accumulate around the tumble dryer, if applicable		P
	-that adequate ventilation has to be provided to avoid the back flow of gases into the room from appliances burning other fuels, including open fires.		P

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	If symbol ISO 7000-0790 (2004-01) is used, its meaning shall be explained. (IEC 60335-2-11)		P
	The instructions for use shall include the substance of the following (IEC 60335-2-11)		P
	-Do not dry unwashed items in the tumble dryer		P
	-items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes and wax removers should be washed in hot water with an extra amount of detergent before being dried in the tumble dryer.		P
	-items such as foam rubber (latex foam), shower caps, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the tumble dryer.		P
	-fabric softeners, or similar products, should be used as specified by the fabric softener instructions.		P
	– Fill steam generators only with liquids specified by the manufacturer.		N/A
	The instructions shall include the substance of the following warning: (IEC 60335-2-11)		P
	WARNING : Never stop a tumble dryer before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.		P
	The instructions for appliances for which the air temperature exceeds 55 °C during the drying cycle, shall include the substance of the following warning: (IEC 60335-2-11)		P
	WARNING: The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility		P
7.12.1	Sufficient details for installation supplied		P
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance		N/A
	The installation instructions shall state (IEC 60335-2-11):		P
	-For appliances with ventilation openings in the base, a carpet must not obstruct the openings		N/A
	-exhaust air must not be discharged into a flue that is used for exhausting fumes from appliances burning gas or other fuels.		P

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	- the appliance must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the tumble dryer, in such a way that a full opening of the tumble dryer door is restricted.		P
	If tumble dryer can be placed on the top of a washing machine, installation instructions as specified		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring 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:		N/A
	- 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 stating how the appliance is to be fixed		N/A
7.12.8	Instructions for appliances connected to the water mains:		N/A
	- max. inlet water pressure (Pa)..... :		N/A
	- min. inlet water pressure, if necessary (Pa)..... :		N/A

EN 60335-2-11			
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
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		P
	These instructions may be supplied with the appliance separately from any functional use booklet		P
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		P
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		P
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD..... :	on the website	P
7.13	Instructions and other texts in an official language	English	P
7.14	Marking clearly legible and durable, rubbing test as specified		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified..... :		N/A
	Uppercase letter of the text explaining the signal word not smaller than 1.6 mm :		N/A
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0.25 mm, unless		N/A
	contrasting colours are used		N/A
	Markings checked by inspection, measurement and rubbing test as specified		P
	The height of symbol ISO 7000-0790 (2004-01) shall be at least 15 mm. (IEC 60335-2-11)		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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	Symbol ISO 7000-0790 (DB:2004-01), or the marking "Read the instructions", shall be readily visible when the appliance is installed as in normal use. (IEC 60335-2-11)		P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		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
	Lamps behind a detachable cover not removed, if conditions met		P
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		P
	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		P
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 or supporting parts		N/A
	For a single switching action obtained by a switching device, requirements as specified		N/A
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug		N/A
8.1.4	Accessible part not considered live if:		N/A
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	- safety extra-low d.c. voltage: not exceeding 42.4 V		N/A
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0.7 mA		N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 μ F		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μ C		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		N/A
	- built-in appliances		N/A
	- fixed appliances		N/A
	- appliances delivered in separate units		N/A
8.2	Class II appliances and constructions 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
9	STARTING OF MOTOR-OPERATED APPLIANCES		—
	Requirements and tests are specified in part 2 when necessary		N/A
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
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		P
	Otherwise the power input is the arithmetic mean value		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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	the rated power input is related to the arithmetic mean value		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
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		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
11	HEATING		—
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described	(see appended table)	P
	Lint traps are cleaned and then 50% of the area of the filter is blocked (IEC 60335-2-11)	50%	P
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		P
	Where the accessible external surfaces are suitably flat and permit access for the test probe of Figure 101, then it may be used to measure the temperature rises of accessible external surfaces specified in Table 101. (IEC 60335-2-11)		P
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)		N/A
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	1.06x240V=254.4V 0.94x220V=206.8V	P
11.7	Appliances incorporating a timer, a humidity sensing control or other time-limiting control	(IEC 60335-2-11)	P

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	cycles with max. time possible operating periods and 4min rest periods		P
	Test may be ended if the temperature rise not exceed the value during the preceding cycle by more than 8 K		P
	Appliances having a combined washing-drying cycle are operated with the drying program resulting in the highest temperature rise. (IEC 60335-2-11)		N/A
	Other appliances are operated continuously until steady conditions are established. (IEC 60335-2-11)		N/A
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	P
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	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		P
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
	During the test, the temperature rises are monitored continuously and shall not exceed the values shown in Table 3 and Table 101.: (IEC 60335-2-11)		P
	The exhaust temperature of the air from the drum, measured at the first lint filter after the air passes the clothes load, shall be measured for the purposes of 22.105.		P
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)	1.06×240V=254.4V	P
	Protective impedance and radio interference filters disconnected before carrying out the tests		P
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999		P

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Clause	Requirement + Test	Result - Remark	Verdict
	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter		P
	Leakage current measurements	(see appended table)	P
	For stationary class I appliances, the leakage current shall not exceed 3.5 mA, or 1 mA/kW rated power input with a limit of 5 mA, whichever is higher (IEC 60335-2-11)		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
	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		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	IPX4	P
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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		P
	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		P
	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		P
	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed		P
15.2	Conditions specified (IEC 60335-2-11)		P
	The appliance withstands the electric strength test of 16.3		P
	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29		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

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Clause	Requirement + Test	Result - Remark	Verdict
	The appliance withstands the tests of clause 16		P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		—
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)..... :	1.06×240V=254.4V	P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V) :		N/A
	Leakage current measurements :	(see appended table)	P
	Limit values doubled if:		P
	- 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		P
	With the radio interference filters disconnected, the leakage current do not exceed limits specified :	(see appended table)	P
	For stationary class I combined appliances, the leakage current shall not exceed 1 mA, or 1 mA/kW rated power input with a limit of 5 mA, whichever is higher. (IEC 60335-2-11)		P
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)	P
	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) :	1.06×240V=254.4V	P
	Basic insulation is not short-circuited		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A
18	ENDURANCE		—
	Requirements and tests are specified in part 2 when necessary		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)	P
	Instead of being subjected to the tests of 19.2 and 19.3, appliances are subjected to the tests of 19.101 and 19.102, as applicable. (IEC 60335-2-11)		P
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		P
	if applicable, to the test of 19.5		N/A
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6		P
	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		P
	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		P
	until steady conditions are established		P

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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
	Tests made with the water valve closed if necessary (IEC 60335-2-11)		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
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 cl. 11, but with dry textile material. Controls limiting the temperature during the test of Clause 11 and all self-resetting thermal cut-outs protecting heating elements short-circuited. Test terminated at the end of the maximum period allowed by a timer. (IEC 60335-2-11)		P
	For condensation-type tumble dryers: test repeated with 75% of air outlet blocked (IEC 60335-2-11)		P
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath		N/A
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		N/A
	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions		P
	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) :	360V PTC did not rupture	P
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		N/A
	Locked rotor, capacitors open-circuited one at a time		P
	Test repeated with capacitors short-circuited one at a time, unless		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	capacitor is of class S2 or S3 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	Maximum period of the programmer	P
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit		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
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	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. However the test is not carried out if the protective device senses the winding temperature directly. (IEC 60335-2-11)		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		P
	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		P
	restarting does not result in a hazard		P
	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		P
	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:		P
	- the temperature of the windings do not exceed the values specified in table 8		P
	- the appliance complies with the conditions specified in 19.13		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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:		P
	- the base material of the printed circuit board withstands the test of Annex E		P
	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29		P
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:		N/A
	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified		N/A
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction 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:		P
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29		P
	b) open circuit at the terminals of any component		P
	c) short circuit of capacitors, unless		P
	they comply with IEC 60384-14		P
	d) short circuit of any two terminals of an electronic component, other than integrated circuits		P
	This fault condition is not applied between the two circuits of an optocoupler		P
	e) failure of triacs in the diode mode		N/A
	f) failure of microprocessors and integrated circuits		P
	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 that operates to ensure compliance with clause 19, the appliance is tested as specified		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or		P
	a device that can be placed in the stand-by mode,		P
	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		P
	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		P
	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		P
	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		P
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		P
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		P
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		P
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		P
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		P
	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		P
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		P
	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
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		P

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
	The appliance continues to operate normally, or		N/A
	requires a manual operation to restart		P
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:		P
	- basic insulation (V) :	1000V/1030V	P
	- supplementary insulation (V) :	1750V/1780V	P
	- reinforced insulation (V) :	3000V/3060V	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		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		P
	- do not become operational, or		P
	- 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:		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- the lid or door does not move automatically to an open position when the interlock is released, and		P
	- the appliance does not start after the cycle in which the interlock was released		P
	Textile material shall not ignite and shall show no charring or glowing (IEC 60335-2-11)		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		P
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		P
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited		P
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		P
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	Test with appliance operated under conditions of clause 11 but with dry textile material and the drum belt removed (Test duration: 90 min or timer) (IEC 60335-2-11)		P
	Test with drum belt in position and air circulation stopped if necessary.		P
	Tests combined if necessary		P
19.102	Appliances that permit test probe C of IEC 61032 to gain access to spaces containing live parts located below holes in the drum: test under specified short circuit conditions, with appliance operated under conditions of clause 11 but with dry textile material. (IEC 60335-2-11)		N/A
19.103	no risk of fire due to textile material coming into contact with a lamp cover : temperature rise of the cover not exceed 150K during test specified. (IEC 60335-2-11)		N/A
20	STABILITY AND MECHANICAL HAZARDS		—
20.1	Appliances having adequate stability		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
	Possible heating test in overturned position; temperature rise does not exceed values shown in		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	table 9		
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
	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		P
	Not possible to touch dangerous moving parts with the test probe described		P
20.101	No opening of the door possible while the appliance is operating (IEC 60335-2-11)		N/A
	unless an interlock is provided that disconnects the motor before the door opening exceeds 75 mm.		P
	No starting of the motor possible while the door opening exceeds 75 mm.		P
	No damage of locking means preventing opening of the door after 6000 times (6/min) energizing and de-energizing of component incorporating coil or similar		P
20.102	For appliance with a door opening greater than 200mm and a drum volume greater than 60dm ³ , opening of the door from inside possible with force of 70N (IEC 60335-2-11)		N/A
20.103	Tumble dryer with horizontally hinged door has adequate stability: no tilt under test with a mass of 23 kg, the appliance placed on an horizontal surface (even if it can be stacked on top of another appliance) (IEC 60335-2-11)		N/A
	And no damage to door and hinges impairing compliance with standard		N/A
	-not applicable to built-in appliances or fixed appliances (IEC 60335-2-11)		N/A
20.104	For appliances having a door on a vertical surface with an opening exceeding 200 mm and a drum having a volume exceeding 60 dm ³ , it shall not be possible to start the drum motor after closing the door until a separate means which controls the movement of the drum is operated manually (IEC 60335-2-11)		N/A
	If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately: – the fault conditions in a) to g) of 19.11.2 are applied one at a time to the electronic circuit; – the electromagnetic phenomena tests of		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	19.11.4.2 and 19.11.4.5 are applied to the appliance.		
	The drum motor shall not start.		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.		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 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
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		P
	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		N/A
22	CONSTRUCTION		—
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX4	N/A
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		P
	- 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

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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		P
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0.1μF, the appliance being disconnected from the supply at the instant of voltage peak		P
	Voltage not exceeding 34 V (V) :	4.0V	P
	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied		N/A
	The discharge test is then repeated three times, voltage not exceeding 34 V (V) :		N/A
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
	In case of doubt, test as described		N/A
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
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		P
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		P
	Tests as described		P
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		P
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard		N/A
	A choking hazard does not apply to appliances for commercial use		P
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		P
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		N/A
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		P
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
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	No such materials.	P
	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	No such materials.	P
22.23	Oils containing polychlorinated biphenyl (PCB) not used	No such materials	P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported		P
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
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
	Ceramic and similar porous 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

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Clause	Requirement + Test	Result - Remark	Verdict
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, or		N/A
	unearthed metal parts separated from live parts by basic insulation only.		N/A
	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		N/A
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
	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless 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

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
22.42	Protective impedance consisting of at least two separate components		N/A
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		N/A
	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		P

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Clause	Requirement + Test	Result - Remark	Verdict
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
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
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:		N/A
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts		N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless		N/A
	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously		N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are to be distinguished from other manual devices by means of shape, size, surface texture or position	surface texture and letters	P
	The requirement concerning position does not preclude use of a push on push off switch		P
	An indication when the device has been operated is given by:		—
	– tactile feedback from the actuator or from the appliance, or		N/A
	– reduction in heat output; or		N/A
	– audible and visible feedback		P
22.56	Detachable power supply part provided with the part of class III construction		N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T		N/A
	This requirement does not apply to glass, ceramics or similar materials		N/A
22.101	Heating elements located or guarded so that they cannot be contacted by textile material. (IEC 60335-2-11)		P
22.102	Interlocks constructed so that unexpected operation of the appliance is unlikely to occur while the door is open. (IEC 60335-2-11)		P
	unexpected operation prevented when attempting to release interlock by means of test probe B of IEC 61032		P
22.103	Tumble dryer for placing on top of a washing machine: possible without tilting or falling (IEC 60335-2-11)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Tilting test with incline up to 5°, in the most unfavourable orientation (washing machine and tumble dryer are assembled together in accordance with the instructions.) .The empty combination is placed on a horizontal surface and a horizontal force of 150 N is applied to the upper edge of the combination with the doors closed.: no fall no tilt nor fall off the washing machine		N/A
22.104	The operation of protective devices for the heating circuit shall not disable the cool down period, if any (IEC 60335-2-11)		P
	Compliance is checked during the tests of Clause 19.		P
22.105	In order to reduce the risk of spontaneous combustion of the clothes load, the drying cycle shall conclude with a cool down period to reduce the temperature of the normal clothes load to a suitable value. (IEC 60335-2-11) This requirement is not applicable to appliances having a drying cycle air temperature not exceeding 55 °C.		P
	At end of the cool down period the air temperature shall not exceed 55 °C.		P
22.106	Steam generators shall be vented to the atmosphere. The aperture shall be at least 5 mm in diameter or at least 20 mm ² in area with a minimum dimension of 3 mm. (IEC 60335-2-11)		N/A
22.107	Appliances with a steam generator shall be constructed in such a way that there is no spillage of water or sudden jets of steam or hot water likely to expose the user to a hazard when the appliance is used in accordance with the instructions. (IEC 60335-2-11)		N/A
	If jets of steam or liquids are emitted through protective devices, the electrical insulation shall not be affected or the user exposed to a hazard.		N/A
22.108	For appliances that are controlled by programmable electronic circuits that limit the number of heating elements and motors from being energized at the same time, simultaneous activation of any combination of heating elements and motors shall not render the appliance unsafe. (IEC 60335-2-11)		P
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		P
	Wiring effectively prevented from coming into contact with moving parts		P

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
	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		P
	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		P
	Not more than 10% of the strands of any conductor broken, and		P
	not more than 30% for wiring supplying circuits that consume no more than 15W		P
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		N/A
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,		P
	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.		N/A
	A single layer of internal wiring insulation does not provide reinforced insulation		P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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
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	The insulation and sheath of internal wiring for the supply of magnetic valves and similar components incorporated in external hoses at least equivalent to light polyvinyl chloride sheathed flexible cord (code designation 60227 IEC 52). (IEC 60335-2-11)		N/A
24	COMPONENTS		—
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components..... :	(see appended table)	P
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance		P
	Relays tested as part of the appliance, or		P
	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		N/A
	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance		N/A
	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard		P
	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections		P
	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met		N/A
	If these conditions are not satisfied, the component is tested as part of the appliance.		N/A
	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance		N/A
	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		P
	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		P
	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		P
	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		P
	If the capacitors have to be tested, they are tested according to Annex F		N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16		P
	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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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 starting 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:		P
	- thermostats: 10 000		N/A
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 300		P
	- voltage maintained non-self-resetting thermal cut-outs: 1 000		N/A
	- other non-self-resetting thermal cut-outs: 30		P
	- timers: 3 000		N/A
	- energy regulators: 10 000		N/A
	-programmers (IEC 60335-2-11) 3 000		P
	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		P
	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
	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		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

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
	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..... :	20000 times	P
24.2	Appliances not fitted with:		P
	- switches, automatic controls or power supplies 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
	- thermal cut-outs that can be reset by soldering, unless		P
	the solder has a melting 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	Rated: 450V Measured: 402.5V, 0.89 times	P

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
	One or more of the following conditions are to be met:		P
	- the capacitors are of class S2 or S3 according to IEC 60252-1		P
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- 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 tumble dryers for compliance with 19.4 shall not be self-resetting (IEC 60335-2-11)		P
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, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance		P
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
25.2	Appliance not provided with more than one means of connection to the supply mains		N/A
	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:		N/A
	- 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
	- 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:		P
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		P
	- rubber sheathed (at least 60245 IEC 53)		N/A
	- polychloroprene sheathed (at least 60245 IEC 57)		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		P
	<ul style="list-style-type: none"> light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 		N/A
	<ul style="list-style-type: none"> ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances 	60227 IEC 53(RVV), H05VV-F	P
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords		N/A
	<ul style="list-style-type: none"> heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg 		N/A
	<ul style="list-style-type: none"> heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances 		N/A
	- halogen-free, low smoke, thermoplastic insulated and sheathed		N/A
	<ul style="list-style-type: none"> light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable 		N/A
	<ul style="list-style-type: none"> Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable 		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 and ≤6A 3×1.0mm 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
	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Where additional neutral conductors are provided in the supply cord:		N/A
	– other colours may be used for these additional neutral conductors;		N/A
	– all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445		N/A
	– the supply cord is fitted to the appliance		N/A
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		P
25.13	Inlet openings so constructed as to prevent damage to the supply cord		P
	If it is not evident that the supply cord can be introduced without risk of damage , 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:		N/A
	- applied force (N)		N/A
	- number of flexings		N/A
	The test does not result in:		N/A
	- short-circuit between the conductors, 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

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Clause	Requirement + Test	Result - Remark	Verdict
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:		P
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) :		N/A
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) :		N/A
	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		P
25.16	Cord anchorages for type X attachments constructed and located so that:		N/A
	- replacement of the cord is easily possible		N/A
	- it is clear how the relief from strain and the prevention of twisting are obtained		N/A
	- they are suitable for different types of 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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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	type Y	P
25.18	Cord anchorages only accessible with the aid of a tool, or		N/A
	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 conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts		P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed:		N/A
	- 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
	- 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:		N/A
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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:		N/A
	- 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
	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met		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		P
	Terminals only accessible after removal of a non-detachable cover, except		P
	for class III appliances that do not contain live parts		N/A
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		N/A
	- 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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
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 (mm ²)		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		N/A
	conductors ends fitted with means suitable for screw terminals		N/A
	Pull test of 5 N to the connection		N/A
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used		P
	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A
	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		P
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
	Class II appliances and class III appliances can incorporate an earth for functional purposes		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

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Clause	Requirement + Test	Result - Remark	Verdict
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and		N/A
	do not provide earthing continuity between different parts of the appliance, and		N/A
	conductors cannot be loosened without the aid of a tool		N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		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
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
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
	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		N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
	Resistance not exceeding 0.1 Ω at the specified low-resistance test (Ω)	0.03 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
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		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
	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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	This requirement does not apply to electrical connections in circuits of appliances for which:		N/A
	<ul style="list-style-type: none"> 30.2.2 is applicable and that carry a current not exceeding 0.5 A 		N/A
	<ul style="list-style-type: none"> 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		N/A
	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:		P
	- in normal use,		P
	- during user maintenance,		P
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		P
	the screw forms a thread having a length of at least half the diameter of the screw		N/A
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, or		P
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1		N/A
	Impulse voltage test is not applicable:		P
	- when the microenvironment is pollution degree 3, or		P
	- for basic insulation of class 0 and class 01 appliances		N/A
	- to appliances intended for use at altitudes exceeding 2 000 m		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		P

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Clause	Requirement + Test	Result - Remark	Verdict
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:		P
	- 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
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		P
	Lacquered conductors of windings considered to be bare conductors		P
	However, clearances at crossover points are not measured		P
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		P
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:		P
	- 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 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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
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		P
	Microenvironment pollution : degree 3, and insulation: CTI of not less than 250, unless enclosed or located so that it is unlikely to be exposed to pollution due to condensation produced in normal use (IEC 60335-2-11)		P
	The requirement for a minimum CTI value of 250 is not applicable to functional insulation if the working voltage does not exceed 50 V. (IEC 60335-2-11)		N/A
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	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
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		P
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		P
	Compliance checked:		P
	- by measurement, in accordance with 29.3.1, or		P
	- by an electric strength test in accordance with 29.3.2, or		N/A
	- for insulation, other than single layer internal wiring insulation, 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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or		N/A
	- 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
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A
	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out		N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19		N/A
30	RESISTANCE TO HEAT AND FIRE		—
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	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)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	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)	P
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		N/A
	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		N/A
	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
	- 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
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
30.2.3	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
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0.2 A during normal operation, and		P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	parts of non-metallic material within a distance of 3mm,		P
	subjected to glow-wire test of IEC 60695-2-11		P
	The test severity is:		P
	- 750 °C, for connections carrying a current exceeding 0.2 A during normal operation		P
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	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:		N/A
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	<ul style="list-style-type: none"> 775 °C, for connections carrying a current exceeding 0.2 A during normal operation 		N/A
	<ul style="list-style-type: none"> 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:		N/A
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		N/A
	- 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
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		N/A
	- 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		P
	Test not applicable to conditions as specified..... :	V-0	P
30.101	Non-metallic materials in close proximity to heating elements and on which lint could accumulate shall be resistant to spread of fire. (IEC 60335-2-11)		P
	This requirement also applies to parts on which burning lint could fall.		P
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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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 THAT ARE RECHARGED IN THE APPLIANCE		—
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		N/A
	Three forms of construction covered:		N/A
	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance		N/A
	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery		N/A
	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit		N/A
	This annex does not apply to battery chargers		N/A
3.1.9	Appliance operated under the following conditions:		N/A
	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2		N/A
	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		N/A
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		N/A
	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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
	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or		N/A
	use only with <model designation> supply unit :		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
	Instructions for appliances containing non user-replaceable batteries state the substance of the following:		N/A
	This appliance contains batteries that are only replaceable by skilled persons		N/A
	Instructions for appliances containing non-replaceable batteries shall state the substance of the following:		N/A
	This appliance contains batteries that are non-replaceable		N/A
	For appliances intending to be supplied from a detachable supply unit for the purposes of recharging the battery, the type reference of the detachable supply unit is stated along with the following:		N/A
	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance		N/A
	If the symbol for detachable supply unit is used, its meaning is explained		N/A
7.15	Markings placed on the part of the appliance connected to the supply mains		N/A
	The type reference of the detachable supply unit is placed in close proximity to the symbol		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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K) :		N/A
	If no limit specified, the temperature rise does not exceed 20 K; measured (K) :		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
19.13	The battery does not rupture or ignite		N/A
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:		N/A
	- 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
	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		—

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Clause	Requirement + Test	Result - Remark	Verdict
	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
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		—
	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard		P
	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:		—
7	Severities		—
	The duration of application of the test flame is 30 s ± 1 s		P
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		P
9.2	The first paragraph does not apply		P
	If possible, the flame is applied at least 10 mm from a corner		P
9.3	The test is carried out on one specimen		P
	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		P
	However, for printed circuit boards, the duration of burning not exceeding 15 s		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
1.6	Marking		—
	Items a) and b) are applicable		N/A
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:		—
7	Marking and instructions		—
7.1	Transformers for specific use marked with:		—
	-name, trademark or identification mark of the manufacturer or responsible vendor :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	-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		—
15.1	Not applicable		N/A
15.2	Not applicable		N/A
15.3	Applicable for full disconnection and micro-disconnection		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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		—
	Clause 20 is applicable to clearances across full disconnection and micro-disconnection		N/A
	It is also applicable to 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		—
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

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Clause	Requirement + Test	Result - Remark	Verdict
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
19.1.101	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		—
22.1.101	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
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		—

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Clause	Requirement + Test	Result - Remark	Verdict
	The information on overvoltage categories is extracted from IEC 60664-1		P
	Overvoltage category is a numeral defining a transient overvoltage condition		P
	Equipment of overvoltage category IV is for use at the origin of the installation		N/A
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N/A
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		P
	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies		N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N/A
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		—
	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		—
	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		N/A
	Minimum clearances specified where pollution may be present in the microenvironment		N/A
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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		—
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...:	250V	P
	The test is carried out on five specimens		P
	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100		N/A
10.2	Report		—
	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 TROPICAL CLIMATES		—
	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332		—
	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332		—

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Clause	Requirement + Test	Result - Remark	Verdict
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 symbol IEC 60417-6332		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
	If symbol IEC 60417-6332 is used, its meaning is explained		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		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
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
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, detection of a fault/error shall occur before compliance with Clause 19 20.104 and 22.108 is impaired.		N/A
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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 20.104 and 22. is impaired		N/A
R.3	Measures to avoid errors		—
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	<p>The specification of the software architecture includes the aspects listed</p> <ul style="list-style-type: none"> - 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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
	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			N/A
1.2 VOID						N/A
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			N/A

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Clause	Requirement + Test			Result - Remark		Verdict
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			N/A
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			N/A
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			N/A
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			N/A
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			N/A
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			N/A
5.1 VOID						N/A
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2			N/A

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Clause	Requirement + Test			Result - Remark		Verdict
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			N/A
6.1 VOID						N/A
6.2 VOID						N/A
6.3 Timing	Wrong point in time Wrong sequence	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or Comparison of redundant communication channels by either: <ul style="list-style-type: none"> - reciprocal comparison - independent hardware comparator Logical monitoring, or time-slot monitoring, or Scheduled transmission (same options as for wrong point in time)	H.2.18.10.4 H.2.18.18 H.2.18.10.3 H.2.18.15 H.2.18.3 H.2.18.10.2 H.2.18.10.4 H.2.18.18			N/A
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check Comparison of redundant communication channels by either: <ul style="list-style-type: none"> - reciprocal comparison - independent hardware comparator 	H.2.18.13 H.2.18.15 H.2.18.3			N/A
7.1 VOID						N/A
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			N/A

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Clause	Requirement + Test			Result - Remark		Verdict
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13			N/A
8 VOID						N/A
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			N/A
<p>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.</p> <p>¹⁾ For fault/error assessment, some components are divided into their sub-functions.</p> <p>²⁾ For each sub-function in the table, the Table R.2 measure will cover the software fault/error.</p> <p>³⁾ Where more than one measure is given for a sub-function, these are alternatives.</p> <p>⁴⁾ To be divided as necessary by the manufacturer into sub-functions.</p>						

S	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE			—
	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or			N/A
	rechargeable batteries (secondary batteries) that are not recharged in the appliance			N/A
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied			N/A
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions			N/A
5.S.102	Appliances are tested as motor-operated appliances.			N/A
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless :			N/A
	the polarity is irrelevant			N/A
	Appliances also marked with:			—
	– name, trade mark or identification mark of the manufacturer or responsible vendor :			N/A
	– model or type reference :			N/A
	– IP number according to degree of protection against ingress of water, other than IPX0 ... :			N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– type reference of battery or batteries :		N/A
	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006		N/A
	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries		N/A
7.6	Additional symbols		N/A
7.12	The instructions contain the following, as applicable:		—
	– the types of batteries that may be used ... :		N/A
	– how to remove and insert the batteries		N/A
	– non-rechargeable batteries are not to be recharged		N/A
	– rechargeable batteries are to be removed from the appliance before being charged		N/A
	– different types of batteries or new and used batteries are not to be mixed		N/A
	– batteries are to be inserted with the correct polarity		N/A
	– exhausted batteries are to be removed from the appliance and safely disposed of		N/A
	– if the appliance is to be stored unused for a long period, the batteries are removed		N/A
	– the supply terminals are not to be short-circuited		N/A
11.5	Appliances are supplied with the most unfavourable supply voltage between		—
	– 0.55 and 1.0 times the battery voltage, if the appliance can be used with non-rechargeable batteries		N/A
	– 0.75 and 1.0 times battery voltage, if the appliance is designed for use with rechargeable batteries only		N/A
	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account		N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified		N/A
19.13	The battery does not rupture or ignite		N/A
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	such a connection is unlikely to occur due to the construction of the appliance		N/A
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction		N/A
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment		N/A
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance		N/A
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery		N/A
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals		N/A
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless		N/A
	the battery is shielded by a barrier that meets the needle flame test of Annex E, or		N/A
	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
T	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC MATERIALS		—
	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the		N/A
	Does not apply to glass, ceramic and similar materials		N/A
	Tested as specified in ISO 4892-1 and ISO 4892-2, with the following modifications:		—
	Modifications to ISO 4892-1:		—
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m ² at 254 nm		N/A
	Subclause 5.1.6.1 and Table 1 are not applicable		N/A
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C		N/A
5.3.1	Humidification of the chamber air is specified in part 2 when necessary		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9	This clause is not applicable		N/A
	Modifications to ISO 4892-2:		—
7.1	At least three test specimens are tested		N/A
	Ten samples of internal wiring is tested		N/A
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress		N/A
7.3	Apparatus prepared as specified		N/A
	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h		N/A
7.4	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen		N/A
7.5	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1		N/A
	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2		N/A
8	This clause is not applicable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
AA	ANNEX AA (NORMATIVE) TUMBLE DRYERS THAT USE A REFRIGERATING SYSTEM INCORPORATING SEALED MOTOR-COMPRESSORS FOR CARRYING OUT THE DRYING PROCESS (IEC 60335-2-11)		—
	The following modifications to this standard are applicable for tumble dryers that use a refrigerating system incorporating sealed motor-compressors		N/A
AA.5.2	At least one additional specially prepared sample is required for the tests of 22.202.		N/A
AA.5.7	Tests specified in clauses 10, 11 and 13 are carried out at an ambient temperature of 23°C ±2 °C		N/A
AA.6.1	Tumble dryers using flammable refrigerants shall be class I		N/A
AA.7.1	Appliance shall also be marked with:		—
	-the total mass of refrigerant		N/A
	-for a single component refrigerant, at least one of the following: <ul style="list-style-type: none"> • The chemical name • The chemical formula • The refrigerant number 		N/A
	-for a blended refrigerant, at least one of the following: <ul style="list-style-type: none"> • The chemical name and nominal proportion of each of the components; • The chemical formula and nominal proportion of each of the components; • The refrigerant number and nominal proportion of each of the components • The refrigerant number of the refrigerant blend. 		N/A
	If refrigerant numbers are used , they shall be as specified in ISO 817		N/A
	The appliance shall also be marked with the mass of the refrigerant for each separate refrigerant circuit		N/A
	Appliances that use flammable refrigerants shall be marked with Warning sign ISO 7010- W021 (2011-06).		N/A
AA.7.6	[Warning sign ISO 7010- W021 (2011-06)] Warning: Flammable material, risk of fire		N/A
AA.7.12	If symbol ISO 7010 W021 (2011-06) is used, its meaning shall be explained		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	For appliances that use flammable refrigerants, the instructions shall include information pertaining to the installation, handling, servicing and disposal of the appliance.		N/A
	The instructions shall also include the substance of the following :		—
	WARNING: In the appliance enclosure or in the built-in structure, keep ventilation openings clear of obstruction.		N/A
	WARNING: Do not damage the refrigerant circuit.		N/A
AA.7.14	The perpendicular height of the triangle of symbol ISO 7010 W021 (2011-06) shall be at least 15 mm.		N/A
AA.7.15	The marking of the type of flammable refrigerant and symbol ISO 7010 W021 (2011-06) shall be visible when gaining access to the motor-compressors.		N/A
AA.11.8	Protective devices other than self-resetting thermal motor-protectors for motor-compressors shall not operate.		N/A
	Self-resetting thermal motor-protectors for motor-compressors shall not operate when steady conditions are established.		N/A
	Temperatures of windings and housing of motor-compressors shall not exceed values in table 101		N/A
	Temperature rise of all other components associated with the motor compressor shall not exceed values in table 3		N/A
AA.19.1	Motor-compressor not complying with IEC 60335-2-34 are subjected to the tests specified in IEC 60335-2-34, 19.101 and 19.102, and shall also comply with 19.104 of that standard.		N/A
AA.19.7	This test does not apply to motor-compressors.		N/A
AA.21.201	Appliances using flammable refrigerants shall withstand the effects of vibration In accordance with IEC 60068-2-6, normal position , sinusoidal vibration, vertical direction, severity: Duration:30min Acceleration: 5m/s ² Frequencies: 100Hz or 120Hz depending on the rated frequency of the appliance (50 or 60 Hz)		N/A
	After the test: No damage affecting safety No connections or parts the loosening of which may impair safety shall have loosened No leakage shall occur when checked according to AA.22.7		N/A
AA.22.7	Appliances , including the motor-compressor, shall withstands		—

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Clause	Requirement + Test	Result - Remark	Verdict
	-a pressure of 3.5 times the saturated vapour pressure of the refrigerant at 70°C for parts exposed to high-side pressure		N/A
	-a pressure of 5 times the saturated vapour pressure of the refrigerant at 25°C for parts exposed to low-side pressure		N/A
	Appliances , including the motor-compressor, using flammable refrigerants shall withstands:		—
	-a pressure of 3 times the adjusted value of the protective device for parts exposed to high-side pressure		N/A
	-a pressure of 5 times the saturated vapour pressure of the refrigerant at 25°C for parts exposed to low-side pressure		N/A
	The part under test shall show no leakage		N/A
AA.22.201	For tumble dryers that use flammable refrigerants, the mass of flammable refrigerant shall not exceed 150g each separate refrigerant circuit.		N/A
AA.22.202	For tumble dryers that use flammable refrigerants, any electrical component located inside the appliance that during normal operation or abnormal operation produces sparks or arcs and luminaries, shall be tested and found at least to comply with the requirements in Annex BB for group IIA gases or the refrigerant used		N/A
	Refrigerant leakage into the appliance enclosure shall not result in an explosive atmosphere outside the appliance in areas where electrical components that produces sparks or arcs during normal operation or abnormal operation are mounted, when doors or lids remain closed or when opening or closing doors or lids,		N/A
	Unless these components have been tested and found at least to comply with the requirements in Annex BB, for group IIA gases or the refrigerant used		N/A
	Compliance is checked by inspection, by the appropriate test of IEC 60079-15 and by the test described in the IEC 60335-2-11		N/A
	Test carried out while the door or lid is closed		N/A
	The measured value shall not exceed 75% of the lower explosive limit of the refrigerant as specified in table 202, and shall not exceed 50% of the lower explosive limit of the refrigerant as specified in table 202 for a period exceeding 5 min.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test repeated, and the door or lid is opened at a uniform rate in a time of between 1 to 2 s to an angle of 90° or to the maximum possible, whichever is less.		N/A
	The concentration shall be the highest when the door or lid is opened		N/A
AA.22.203	Temperature on surfaces that may be exposed to leakage of flammable refrigerants shall not exceed the auto-ignition temperature of the refrigerant, as specified in table 202, reduced by 100K Compliance checked during the tests specified in clauses 11 and 19		N/A
AA.22.204	For tumble dryers that use flammable refrigerants, a pressure responsive electrical cut-out is required for expansion valve refrigerant system		N/A
	The pressure cut-out is allowed to be a self-resetting type. It shall not operate under the conditions of clause 11. However during the test of 19.4, 75% of the lint-trap is blocked and under this condition of abnormal use, the pressure cut-out is allowed to operate.		N/A
	Compliance checked by inspection during the test of clauses 11 and 19.4		N/A
AA.22.205	The insulation between the drum and the enclosure and between the enclosure and the drive motor shaft shall be sufficiently low so as to avoid a build-up of electrostatic charge.		N/A
	Compliance checked by measuring the insulation with a D.C. voltage of approximately 500V applied: <ul style="list-style-type: none"> between the drum and the enclosure between the enclosure and the drive motor shaft 		N/A
	The insulation shall not exceed 1MΩ		N/A
AA.22.206	For tumble dryers using flammable refrigerants, only factory sealed connections shall be used in the refrigerant circuit		N/A
AA.24.1	Motor-compressors are not required to be separately tested in accordance with IEC 60335-2-34, nor are they required to meet the requirements of IEC 60335-2-34, if they meet the requirements of this standard.		N/A
AA.24.1.4	For appliances using a refrigerant system the number of cycles is as follows:		—
	-self-resetting thermal cut-out that may influence the test of 19.101 and that are not short circuited during the test of 19.101 10 000		N/A
	-thermostat that control the motor-compressor 30 000		N/A
	-motor-compressor starting relays 30 000		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	-automatic thermal motor-compressor for motor-compressors of the hermetic type 2 000		N/A
	-manual reset thermal motor-compressor for motor-compressors of the hermetic type 50		N/A
	-other automatic thermal motor-compressor 2 000		N/A
	-other manual reset thermal motor-compressor 30		N/A
	-self-resetting pressure cut-outs (only required on appliances using flammable refrigerant) 1 000		N/A
	-manual reset cut-outs (only required on appliances using flammable refrigerant) 300		N/A
BB	ANNEX BB (NORMATIVE) Equipment protection by type of protection "n" (IEC 60335-2-11)		—
	Where reference is made to IEC 60079-15, the following clauses are applicable, as modified below		—
11	Supplementary requirements for non-sparking luminaires		—
	All of the subclauses of Clause 11 are applicable, except 11.2.4.1, 11.2.4.5, 11.2.5, 11.2.6, 11.2.7, 11.3.4, 11.3.5, 11.3.6 and 11.4.		N/A
16	General supplementary requirements for equipment producing arcs, sparks or hot surfaces		—
	Clause applicable		N/A
17	Supplementary requirements for hermetically sealed devices producing arcs, sparks and hot surfaces		—
	Clause applicable		N/A
18	Supplementary requirements for hermetically sealed devices producing arcs, sparks or hot surfaces		—
	Clause applicable		N/A
19	Supplementary requirements for sealed devices producing arcs, sparks or hot surfaces		—
	All of the subclauses of Clause 19 are applicable, except 19.1 and 19.6, which are replaced by the following.		N/A
19.1	Non-metallic materials		—
	Seals are tested using 22.5. However if the device is tested in the appliance, then 22.5.1 and 22.5.2 are not applicable. After the tests of Clause 19 in IEC 60335-2-11, by inspection, no damage that could impair the type of protection shall be evident.		N/A
19.6	Type tests		N/A
	The type tests described in 22.5 shall be performed where relevant		N/A
20	Supplementary requirements for restricted-breathing enclosures protecting equipment producing arcs, sparks or hot surfaces		—
	Clause applicable		N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60335-2-11:2019 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Safety of household and similar electrical appliances Part 2-11: Particular requirements for tumble dryers			
<p style="text-align: right;">EN IEC 60335-2-11:2022+A11:2022 used in conjunction with</p> <p>Differences according to.....: EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021</p> <p style="text-align: right;">EN 62233:2008 + AC:2008</p>			
TRF template used IEC EE OD-2020-F2:2022, Ed. 1.2			
Attachment Form No.....: EU_GD_IEC60335_2_11S			
Attachment Originator UL Solutions (Demko)			
Master Attachment Dated 2022-12-23			
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	CENELEC COMMON MODIFICATIONS (EN)		
6.1	Delete "class 0" and "class 01"		P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	220-240V~	P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		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 do not play with the appliance		P
	- cleaning and user maintenance not made by children without supervision		P
	- Children of less than 3 years be kept away unless continuously supervised (EN 60335-2-11:2022/A11:2022)		P

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Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	These instructions are also available in an alternative format, e.g. on a website		P
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test		P
	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		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
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action		N/A
8.2	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1		P
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		P
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
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use		P

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Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed		P
	Test probe 18 applied with a force of 2.5N on the appliance fully assembled		P
	<i>Replace "dangerous" with "hazardous" (twice).</i> (EN 60335-1:2012/A15:2021)		P
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers		N/A
22.17	The requirement is not applicable to built-in appliances		N/A
22.44	An appliance is child-appealing if one of the following criteria is present: (EN 60335-1:2012/A15:2021)		N/A
	— appliance decorated using faces, cartoon like characters, or similar images		N/A
	— appliance using shapes representing animals, characters, persons or scale models		N/A
	An appliance is child-appealing if more than one of the following criteria are present:		N/A
	— using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance);.		N/A
	— using non-functional sound (e.g. music)		N/A
	— using non-functional movement.		N/A
	If the appliance is child-appealing, has a mass less than 4 kg or is mounted or normally intended for use at a height less than 850 mm, the following conditions are met		N/A
	- surface temperature rise requirements not exceeded		N/A
	- hazardous moving parts not accessible		N/A
	- live parts not accessible		N/A
	- liquid temperature requirement not exceeded,		N/A
	unless for vessels in which two independent and sequential actions are needed to access the liquid		N/A
	- the requirement of 22.12 is applicable for all accessible parts of the appliance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
22.102	Compliance is checked by inspection and by attempting to release the interlock by means of test probe B and test probe 18 of EN 61032. (EN IEC 60335-2-11:2022/A11:2022)		P
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard		P
	Relays are tested as part of the appliance according to this standard		P
	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1		P
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance		P
	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard		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 tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard		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 the values of t_e and t_i acc. to EN 60695-2-11		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
	If the above two conditions are not satisfied, the component is tested as part of the appliance		N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard		N/A
	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		P
	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
	<i>In the note, replace the word "NOTE Z3" with "NOTE Z1"</i> (EN 60335-1:2012/A15:2021)		N/A
24.1.3	The number of cycles of operation for the switching device in door interlocks is 30 000. (EN IEC 60335-2-11:2022/A11:2022)		P

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151. (EN 60335-1:2012/A15:2021)		N/A
24.Z1	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1		P
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH		N/A
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:		P
	- 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		N/A
	when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard		N/A
	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH		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		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 50366 or 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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	The duration of the test is as specified in 19.7		N/A

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN)		—
	Denmark, Sweden, Norway and Finland		—
7.12.8	The maximum inlet water pressure is at least 1.0 MPa		N/A
	Norway		—
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		—
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		P
	Denmark		—
22.47	The maximum inlet water pressure is at least 1.0 MPa		N/A
	Ireland, United Kingdom and Cyprus		—
25.8	In the table, the line >10 A and ≤16 A is replaced with:		N/A
	> 10 and ≤ 13 1.25 (1.0) ^b		N/A
	> 13 and ≤ 16 1.5 (1.0) ^b		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		—
	Ireland		—

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
25.1 and 25.25	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		P
	United Kingdom		—
25.1 and 25.25	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.		P
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		P
ZC	ANNEX ZC (NORMATIVE) <i>NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS</i>		—
	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document .(EN IEC 60335-2-11:2022/A11:2022)		P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		—
	List of IEC and CENELEC code designations for flexible cords		P
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:		N/A
	- the business name and full address of the manufacturer and, where applicable, his authorized representative		N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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 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:		N/A
	- 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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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:		N/A
	- 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 include 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 is 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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	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:		N/A
	- 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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
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:		N/A
	- 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

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
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:		N/A
	- 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		—

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive).....:		P
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
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries		—
	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:		P
	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:		P
	- for class II appliances, standard sheet EU5, EU6 or EU7		N/A
	There are exemptions or differences in certain CENELEC countries		N/A
ZI	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A		N/A
	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1		N/A
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED		—

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT to TRF IEC60335_2_11S			
Clause	Requirement + Test	Result - Remark	Verdict
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU (EN IEC 60335-2-11:2022/A11:2022)		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations (EN IEC 60335-2-11:2022/A11:2022)		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives (EN IEC 60335-2-11:2022/A11:2022)		N/A
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED		—
	The Annex ZZB of Part 1 is not applicable (EN IEC 60335-2-11:2022/A11:2022)		N/A
	ANNEX EN 62233:2008 + AC:2008 EMF- ELECTROMAGNETICS FIELDS		—
	The tested product also complies with the requirements of EN 62233:2008		N/A
	Limit 100%	Measured max. : %	N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation					P
Input deviation of/at:		P rated (W)	P measured (W)	dP (W, %)	Required dP (W, %)	Remark
Drying GDZ40-468E with GDZ60-618E Control Board RHC PTC 60Hz		1000	965	-3.5%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-468E with GDZ60-618E Control Board RHC PTC 50Hz		1000	928	-7.2%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-418E with LT-GYJ-P01 Control Board JKFTP PTC 60Hz		1000	921	-7.9%	$\geq -10\%, \leq +5\%$	P
Drying Model:GDZ30-468E 60Hz		1000	925	-7.5%	$\geq -10\%, \leq +5\%$	P
Drying Model:GDZ25-468E 60Hz		1000	921	-7.9%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-428E 60Hz		1000	924	-7.6%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-428E 50Hz		1000	921	-7.9%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-498E 60Hz		1000	935	-6.5%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-498E 50Hz		1000	918	-8.2%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-518E 60Hz		1000	939	-6.1%	$\geq -10\%, \leq +5\%$	P
Drying GDZ40-518E 50Hz		1000	935	-6.5%	$\geq -10\%, \leq +5\%$	P
Supplementary information: 230V 23.0°C						

EN 60335-2-11					
Clause	Requirement + Test			Result - Remark	Verdict
10.2	TABLE: Current deviation				N/A
Current deviation of/at:	I rated (A)	I measured (A)	dI (A, %)	Required dI (A, %)	Remark
Supplementary information:					

11.8-1	TABLE: Heating Test		P
	Test voltage (V)..... :	254.4	—
	Ambient (°C).....:	t1=23.0/23.0 t2=24.0/24.0	—
Thermocouple Locations		Max. temperature rise measured, dT (K) 60Hz/50Hz	Max. temperature rise limit, dT (K)
Supply cord		17.7/17.4	50
Cord sheath		14.2/13.8	35
Internal wiring		43.6/45.2	50
Test floor		6.6/6.3	65
Ambient of relay(T70)		27.4/27.2	45
Surface of Knob		10.8/10.5	60
Ambient of interlock switch		16.6/16.4	30
Surface of capacitor(T70)		23.7/23.5	45
Surface of handles		10.6/10.4	60
Surface of transformer winding(Class 130)		31.2/31.0	85
PCB		22.2/22.0	120/For cl30.1
X2 capacitor		23.4/23.1	50
Surface of connector		27.6/27.1	For cl30.1
Front enclosure of appliance (plastic part)		23.3/23.0	58
Front enclosure of appliance (metal part)		9.9/9.3	42
Other enclosure of appliance (plastic part)		10.1/9.5	62
Other enclosure of appliance (metal part)		11.5/11.3	49
Supplementary information:			
11.8-1	TABLE: Heating test, resistance method		P
	Test voltage (V)..... :	254.4	—
	Ambient, t ₁ (°C)..... :	23.0°C	—
	Ambient, t ₂ (°C)..... :	24.0°C	—

EN 60335-2-11					
Clause	Requirement + Test			Result - Remark	Verdict
Temperature rise of winding	R_1 (Ω) 60Hz/50Hz	R_2 (Ω) 60Hz/50Hz	ΔT (K) 60Hz/50Hz	Max. dT (K)	Insulation class
Winding I of motor	52.7/53.2	71.3/71.5	86.5/84.3	95	130
Winding II of motor	52.7/53.2	71.4/71.6	87.0/84.8	95	130
Supplementary information: GDZ40-468E with GDZ60-618E Control Board, RHC PTC					

11.8-2	TABLE: Heating Test		P
	Test voltage (V)..... :	254.4	—
	Ambient (°C).....:	t1=23.0℃ t2=24.0℃	—
Thermocouple Locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Supply cord		17.1	50
Cord sheath		13.3	35
Internal wiring		43.2	50
Test floor		6.1	65
Ambient of relay(T70)		27.1	45
Surface of Knob		10.4	60
Ambient of interlock switch		16.2	30
Surface of capacitor(T70)		23.4	45
Surface of handles		10.3	60
Surface of transformer winding(Class 130)		31.1	85
PCB		22.2	120/For cl30.1
X2 capacitor		23.3	50
Surface of connector		27.5	For cl30.1
Front enclosure of appliance (plastic part)		23.1	58
Front enclosure of appliance (metal part)		9.6	42
Other enclosure of appliance (plastic part)		10.0	62
Other enclosure of appliance (metal part)		11.3	49
Supplementary information: 60Hz			
11.8-2	TABLE: Heating test, resistance method		P
	Test voltage (V)..... :	254.4	—
	Ambient, t ₁ (°C)..... :	23.0℃	—
	Ambient, t ₂ (°C)..... :	24.0℃	—

EN 60335-2-11					
Clause	Requirement + Test			Result - Remark	Verdict
Temperature rise of winding	R_1 (Ω)	R_2 (Ω)	ΔT (K)	Max. dT (K)	Insulation class
Winding I of motor	52.3	70.4	84.8	95	130
Winding II of motor	52.3	70.6	85.8	95	130
Supplementary information: GDZ40-418E with LT-GYJ-P01 Control Board, JKFTP PTC					

11.8-3	TABLE: Heating Test		P
	Test voltage (V)..... :	206.8	—
	Ambient (°C).....:	t1=23.5 t2=24.0	—
Thermocouple Locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Supply cord		15.5	50
Cord sheath		11.9	35
Internal wiring		41.5	50
Test floor		6.0	65
Ambient of relay(T70)		25.2	45
Surface of Knob		8.9	60
Ambient of interlock switch		15.1	30
Surface of capacitor(T70)		21.6	45
Surface of handles		9.5	60
Surface of transformer winding(Class 130)		28.9	85
PCB		21.0	120/For cl30.1
X2 capacitor		22.1	50
Surface of connector		25.6	For cl30.1
Front enclosure of appliance (plastic part)		11.9	58
Front enclosure of appliance (metal part)		8.8	42
Other enclosure of appliance (plastic part)		10.1	62
Other enclosure of appliance (metal part)		10.8	49
Supplementary information: 50Hz			

11.8-3	TABLE: Heating test, resistance method					P
	Test voltage (V)..... :		206.8		—	
	Ambient, t ₁ (°C)..... :		23.5°C		—	
	Ambient, t ₂ (°C)..... :		24.0°C		—	
Temperature rise of winding		R ₁ (Ω)	R ₂ (Ω)	ΔT (K)	Max. dT (K)	Insulation class

EN 60335-2-11					
Clause	Requirement + Test			Result - Remark	Verdict
Winding I of motor	52.7	70.9	85.3	95	130
Winding II of motor	52.7	71.3	87.2	95	130
Supplementary information: GDZ40-468E with GDZ60-618E Control Board, RHC PTC					

13.2	TABLE: Leakage current		P
	Heating appliances: 1.15 x rated input (W):	N/A	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V).....:	254.4	—
Leakage current between		I (mA)	Max. allowed I (mA)
Any pole of the supply and accessible parts Model: GDZ40-468E with GDZ60-618E Control Board, RHC PTC 60Hz		0.104	3.5
Any pole of the supply and accessible parts(class II construction) Model: GDZ40-468E with GDZ60-618E Control Board, RHC PTC 60Hz		0.013(peak)	0.35(peak)
Any pole of the supply and accessible parts Model: GDZ40-468E with GDZ60-618E Control Board, RHC PTC 50Hz		0.102	3.5
Any pole of the supply and accessible parts(class II construction) Model: GDZ40-468E with GDZ60-618E Control Board, RHC PTC 50Hz		0.011(peak)	0.35(peak)
Any pole of the supply and accessible parts Model: GDZ40-418E with LT-GYJ-P01 Control Board, JKFTP PTC 60Hz		0.101	3.5
Any pole of the supply and accessible parts(class II construction) Model: GDZ40-418E with LT-GYJ-P01 Control Board, JKFTP PTC 60Hz		0.011(peak)	0.35(peak)
Supplementary information: N/A			

13.3	TABLE: Electric strength			P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)	
240V Live part and accessible parts(basic insulation)		1000	No	
240V Live part and Intermediate metal(basic insulation)		1000	No	
240V Intermediate metal and accessible parts(Supplementary insulation)		1750	No	
240V Live part and accessible parts(reinforced insulation)		3000	No	

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Clause	Requirement + Test	Result - Remark	Verdict
275V Live part and accessible parts(basic insulation)		1030	No
275V Live part and Intermediate metal(basic insulation)		1030	No
275V Intermediate metal and accessible parts(Supplementary insulation)		1780	No
275V Live part and accessible parts(reinforced insulation)		3060	No
Supplementary information: N/A			

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

16.2	TABLE: Leakage current		P
	Single phase appliances: 1.06 x rated voltage (V) :	254.4	—
	Three phase appliances 1.06 x rated voltage divided by $\sqrt{3}$ (V) :	N/A	—
Leakage current between		I (mA)	Max. allowed I (mA)
Live part and accessible parts (connect the radio interference filter)		0.351	2.0
Live part and accessible parts(class II construction) (connect the radio interference filter)		0.066	0.5
Live part and accessible parts (not connect the radio interference filter)		0.121	1.0
Live part and accessible parts(class II construction) (not connect the radio interference filter)		0.021	0.25
Supplementary information: Maximum value measured at 60Hz			

16.3	TABLE: Dielectric Strength		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
240V basic insulation		1250	No
240V supplementary insulation		1750	No
240V reinforced insulation		3000	No

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Clause	Requirement + Test	Result - Remark	Verdict
275V basic insulation		1280	No
275V supplementary insulation		1780	No
275V reinforced insulation		3060	No
Supplementary information: N/A			

17	TABLE: Overload protection, thermocouple measurements		P
Temperature rise of part/at:		T (°C)	Max. T (°C)
Surface of transformer winding		135.9	225
Supplementary information: the max. test data was recorded.			

17	TABLE: Overload protection, resistance method					N/A
	Test voltage (V).....:		N/A			—
	Ambient, t1 (°C)		N/A			—
	Ambient, t2 (°C)		N/A			—
Temperature of winding		R1 (Ω)	R2 (Ω)	dT (K)	T (°C)	Max. T (°C)
N/A		N/A	N/A	N/A	N/A	N/A
Supplementary information: N/A						

19	Abnormal operation conditions						P
Operational characteristics		YES/NO	Operational conditions				
Are there electronic circuits to control the appliance operation?		YES	240V				
Are there "off" or "stand-by" position?		YES	240V , "stand-by" position				
The unintended operation of the appliance results in dangerous malfunction?		NO	N/A				
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	Self-resetting thermal cut-out protecting heating	Non-self-reset thermal cut-out protects	N/A	N/A	N/A	N/A	no hazard

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Clause	Requirement + Test			Result - Remark			Verdict
	elements short-circuited						
19.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.6	Increase the voltage on the PTC electric heating element by 5% and let the appliance stabilize again, and then repeat the procedure	PTC enters heat balance state	N/A	N/A	N/A	N/A	no hazard
19.7	Locked rotor of motor	Motor thermal cut-out protects	N/A	N/A	N/A	N/A	no hazard
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	Applies one fault condition at a time	Compliance with clause 19.13	N/A	N/A	N/A	N/A	no hazard
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation.	The appliance stop and manual reset	N/A	N/A	N/A	N/A	no hazard
19.101	Applied any fault condition or unexpected operation that is in normal use	Non-self-reset thermal cut-out protects	N/A	N/A	N/A	N/A	no hazard
19.102	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.103	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Supplementary information:							

19.7	TABLE: Abnormal operation, locked rotor/moving parts	P
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Clause	Requirement + Test			Result - Remark		Verdict
	Test voltage (V):			240		—
	Ambient, t1 (°C):			23.0°C		—
	Ambient, t2 (°C):			23.5°C		—
Temperature of winding		R1 (Ω)	R2 (Ω)	dT (K)	T (°C)	Max. T (°C)
Winding of motor GDZ40-468E with GDZ60-618E Control Board, RHC PTC BR-A thermal cut-out 60Hz		104.4	155.6	120.6	144.6	225
Winding of motor GDZ40-468E with GDZ60-618E Control Board, RHC PTC 50Hz		104.4	155.1	119.4	143.4	225
Winding of motor GDZ40-418E with LT-GYJ-P01 Control Board, JKFTP PTC KW thermal cut-out 60Hz		105.1	153.4	113.0	137.0	225
Supplementary information:						

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Clause	Requirement + Test	Result - Remark	Verdict

19.13-1	TABLE: Abnormal operation, temperature rises (cl.19.4)		P
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Test corner	10.6	150	
supply cord	18.3	150	
thermoplastic material	21.2	150	
Supplementary information: The maximum temperature rise was measured .			

19.13-2	TABLE: Abnormal operation, temperature rises (cl.19.6)		P
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Test corner	11.3	150	
supply cord	18.9	150	
thermoplastic material	24.1	150	
Supplementary information: The maximum temperature rise was measured .			

19.13-3	TABLE: Abnormal operation, temperature rises (cl.19.7)		P
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Test corner	11.8	150	
supply cord	19.1	150	
thermoplastic material	23.5	150	
Supplementary information: The maximum temperature rise was measured .			

19.13-4	TABLE: Abnormal operation, temperature rises (cl.19.101)		P
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Test corner	11.2	150	
supply cord	18.8	150	
thermoplastic material	20.5	150	
Supplementary information: The maximum temperature rise was measured .			

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Clause	Requirement + Test	Result - Remark	Verdict

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Plug	Ningbo Ousheng Electric Co., Ltd	OS13	13A 250V	BS 1363-1	ITS 1176	
Alt.	Ningbo Ousheng Electric Co., Ltd.	S03	AC 250V,16A	DIN VDE 0620-1 IEC 60884-1	VDE 40023763	
Alt.	Ningbo Ousheng Electric Co., Ltd.	OS06A,OS0 6B,OS06D,O S07	AC 250V,10A	AS/NZS 3112 IEC 60884-1	SAA 121130EA	
Alt.	Ningbo Ousheng Electric Co., Ltd	OS13	13A 250	SASO2203	ITS KSA R- 310536/2	
Alt.	Ningbo Ousheng Electric Co., Ltd	OS11	AC 250V,10 A	CEI 23-50-II Ed.2007+V1	CA02.05518	
Alt.	Ningbo Ousheng Electric Co., Ltd	S03-K	AC 250V,16A	K60884-1 KSC8305	SU04137- 10008A	
Plug fuse	Ningbo Ousheng Electric Co., Ltd	/	13A 250V	BS 1362	ITS 1176	
Supply cord	Ningbo Ousheng Electric Co.,Ltd.	H05VV-F	3 x 1.0mm ²	EN50525-2-11	VDE 40021137	
Alt.	Ningbo Ousheng Electric Co., Ltd.	60227 IEC 53(RVV)	300/500V 3 x 1.0mm ²	GB/T 5023.5 IEC 60227-5	CCC 2009010105 377356	
Alt.	Ningbo Ousheng Electric Co., Ltd.	H05VV-F	3 x 1.0mm ²	AS/NZS 3191	SAA 110926EA	
Alt.	Ningbo Ousheng Electric Co., Ltd	H05VV-F	3 x 1.0mm ²	K60227-5	SU01081- 10001	
Internal wire	NiZing Electric Co.,Ltd.	H05S-K	0.5/0.75/1.0mm ²	EN 50525-2-41	VDE 40016903	
Alt.	Ningbo Haoguang Electric Appliance Co.,Ltd.	H05V-K	0.5/0.75/1.0mm ²	EN 50525-2-31	VDE 126062	
Alt.	Shang Hai Chao Tong Wire & Cable Co., Ltd	H05V-K	0.5/0.75/1.0mm ²	EN 50525-2-31	VDE 40040343	
Alt.	Xinya Electronic Co., Ltd.	H05V-K	0.5/0.75/1.0mm ²	EN 50525-2-31	VDE 40028605	
Alt.	Xinya Electronic Co., Ltd.	60227 IEC 08(RV-90)	300/500V 0.75 mm ² 1.0 mm ²	GB/T 5023.3 IEC 60227-3	CCC 2004010105 134426	

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Alt.	Ningbo Haoguang Electric Appliance Co.,Ltd.	60227 IEC 08(RV-90)	300/500V 0.75 mm ² 1.0 mm ²	GB/T 5023.3 IEC 60227-3	CCC 2004010105 106210
Self-reset thermal cut-out for heater	ChangshuXin Du An ElectricCo., Ltd.	KSD1	AC 250 V, 10 A, Tf65 °C, T150	IEC/EN 60730-1 IEC/EN 60730-2-9	VDE 136613
Non-Self-reset thermal cut-out for heater	ChangshuXin Du An Electric Co., Ltd.	KSDS	AC250V,10A, Tf95 °C, T150	IEC/EN 60730-1 IEC/EN 60730-2-9	VDE 136613
Running capacitor	Foshan City Shunde District xunde Electrical and Electronical Co., Ltd.	CBB61	AC 450V 50/60Hz 6μF ,40/85/21 S3	IEC/EN 60252-1	TUV R 50286358
Alt.	CixiRiyi Capacitor Factory	CBB61	AC 450V 50/60Hz 6μF ,T70 S3	IEC/EN 60252-1	TUV R 50278758
Alt.	Ningguo Darong Electronics Co., Ltd	CBB61	AC 450V 50/60Hz 6μF ,40/85/21 S3	IEC/EN 60252-1	TUV R 50398665
Motor	Huzhou Yueqiu Motor.,Ltd	YXB-60SF	220V 50Hz 60W AL Class 130(B)	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance at 220-240V
Thermal cut-out For Motor	Jiangsu changsheng Electric appliance co., ltd	BR-A	Temp. set 135°C	IEC/EN 60730-1 IEC/EN 60730-2-2	CB:CN4179 8
Alt.	Changzhou city tongli Electronic Co., Ltd	KW	Temp. set 135°C	IEC/EN 60730-1 IEC/EN 60730-2-2	CB:DE1- 56377
Heater	Foshan Nnahai Hongycomb ELectionic Produsts Co.,Ltd.	RHC	220VAC 50Hz 800W	GB/T14536.1 IEC/EN 60730-1 IEC/EN 60335-1 IEC/EN 60335-2- 11	CQC03002 006734 Tested with appliance
Heater	Shenzhen Jinke Special Materials Co.,Ltd	JKFTP	220VAC 50Hz 800W	GB/T14536.1 IEC/EN 60730-1 IEC/EN 60335-1 IEC/EN 60335-2- 11	CQC06002 015895 Tested with appliance

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Micro switch	Zhejiang Clion Relay Co Ltd	NV-16	16A 250VAC T125 50/60Hz 5E4	GB/T 15092.1 GB/T 15092.101 IEC 61058-1 IEC 61058-1-1	CQC13002 099215
Transformer	TongLing SanJia tranformer Co.,Ltd	WQ16EE- SL001	Input Voltage: 100-240V~ 50/60Hz Output Voltage:12V Output Power:5VA Class 130(B)	GB/T19212.1 GB/T19212.17 GB8898 IEC 61558-1 IEC 61558-2-16	CQC12001 081286
Alt.	TongLing SanJia tranformer Co.,Ltd	WQ25EE- SL001	Input Voltage: 100-240V~ 50/60Hz Output Voltage:12V Output Power:5VA Class 130(B)	GB/T19212.1 GB/T19212.17 GB8898 IEC 61558-1 IEC 61558-2-16	CQC12001 081286
Alt.	Xiamen Zettler Magnetics Co., Ltd	XZM- E16187	Input Voltage: 100-240V~ 50/60Hz Output Voltage:12V Output Power:7VA Class 130(B)	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC11001 060638
Alt.	Xiamen Zettler Magnetics Co., Ltd	XZM- EF20110	Input Voltage: 100-240V~ 50/60Hz Output Voltage:12V Output Power:7VA Class 130(B)	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC11001 055452
Alt.	Ningbo Yuce Electronics Co.,Ltd	YC-E16-002	Input:100- 240VAC 50/60Hz	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC19001 212108

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Alt.	Ningbo Yuce Electronics Co.,Ltd	YC-E19-008	Input:100-240VAC 50/60Hz	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC19001 212108
Alt.	Ningbo Yuce Electronics Co.,Ltd	YC-E25-008	Input:100-240VAC 50/60Hz	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC19001 212108
Alt.	Ningbo Yuce Electronics Co.,Ltd	YC-F20-003	Input:100-240VAC 50/60Hz	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC19001 212102
Alt.	Ningbo Yuce Electronics Co.,Ltd	YC-F25-002	Input:100-240VAC 50/60Hz	GB/T19212.1 GB/T19212.17 IEC 61558-1 IEC 61558-2-16	CQC19001 212102
Relay	Ningbo Zettler Electronics Co., Ltd.	JT3FD	10A 250 V~ T85	IEC/EN 61810-1	VDE 40038832
Alt.	Ningbo ZETTLER Electronics Co., Ltd.	JT2160-1A-12DE	Coil:12 VDC, 15A, 250VAC,T85	IEC/EN 61810-1	TUV R 50266582
Alt.	Ningbo ZETTLER Electronics Co., Ltd.	JQC-3FF	Coil:12 VDC, 10A, 277 VAC, T85, 1E5	IEC/EN 61810-1	TUV R 50265555
Alt.	Ningbo ZETTLER Electronics Co., Ltd.	JT32F	Coil:12 VDC, 5A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R 50265552
Alt.	Ningbo ZETTLER Electronics Co., Ltd.	JT32F-G	Coil:12 VDC, 10A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R 50265552
Alt.	Ningbo Zettler Electronics Co., Ltd.	JT102F	20A 250 V~ T85	DIN EN 61810-1 IEC 61810-1	VDE 40046186
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF32FV	Coil:12 VDC, 5A, 250 VAC, T85	IEC/EN 61810-1	VDE 40012204

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF32FV-G	Coil:12 VDC, 10A, 277 VAC,T85	IEC/EN 61810-1	VDE 40012204
Alt.	Xiamen Hongfa Electroacoustics Co.,Ltd	HF3FD	10A 250V~ T85	IEC/EN 61810-1	VDE 40014057
Alt.	Xiamen Hongfa Electroacoustics Co.,Ltd	HF46F	5A 250V~ T85	IEC/EN 61810-1	VDE 40025215
Alt.	Xiamen HongfaElectroac oustics Co., Ltd.	HF3FA	Coil:12 VDC, 10A, 250 VAC,T85	IEC/EN 61810-1	VDE 40023708
Alt.	Xiamen HongfaElectroac oustics Co., Ltd.	HF152F	Coil:12 VDC, 16A, 250 VAC,T85	IEC/EN 61810-1	VDE 40017837
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF2160-1A- 12DE	Coil:12 VDC, 15A, 250 VAC,T85	IEC/EN 61810-1	TUV R 50153835
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF115FK	Coil:12 VDC, 16A, 250 VAC,T85	IEC/EN 61810-1	VDE 116934
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF7520	Coil:12 VDC, 16A, 250 VAC,T105	IEC/EN 61810-1	TUV R 50154274
Alt.	Sanyou Corporation Limited	SRD-S- 112DM	Coil:12 VDC, 10A, 250 VAC, T105, 1E5	IEC/EN 61810-1	VDE 40034479
Alt.	Sanyou Corporation Limited	SRDI-S- 112DM	Coil:12 VDC, 10A, 250 VAC, T105, 1E5	IEC/EN 61810-1	VDE 40034479
Alt.	Sanyou Corporation Limited	SRG-S- 112DM	Coil:12 VDC, 17A, 250 VAC, T105, 1E5	IEC/EN 61810-1	VDE 40037165
Alt.	Sanyou Corporation Limited	SM-S- 112DM	Coil:12 VDC, 16A, 250 VAC, 12A, 250 VAC, 10A, 250 VAC, T105, 1E5	IEC/EN 61810-1	VDE 40031353

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity 1)
Alt.	Sanyou Corporation Limited	SJ-S-112DMH	Coil:12 VDC, 10A, 250 VAC, T105, 1E5	IEC/EN 61810-1	VDE 40002146
Alt.	Sanyou Corporation Limited	SRDI-SH-112D	10A 250V~ T105	IEC/EN 61810-1	VDE 40034479
Alt.	Sanyou Corporation Limited	SRD-S-112D2	10A 250V~ T105	IEC/EN 61810-1	VDE 40034479
Alt.	Sanyou Corporation Limited	SLI-S-112DM	30A 250V~ T105	IEC/EN 61810-1	VDE 40036707
Alt.	Tyco Electronics (shenzhen) Co., Ltd.	OZ-SS-112LM1	Coil:12 VDC, 16A, 240 VAC, T105, 1E5	IEC/EN 61810-1	TUV R 50139112
Alt.	Tyco Electronics (shenzhen) Co., Ltd.	OJ-SH-112LMH	Coil:12 VDC, 8A, 250 VAC, T70, 1E5	IEC/EN 61810-1	VDE 40007630
Alt.	SHENZHEN GOLDEN ELECTRICALAPPLIANCES CO.,LTD	GI-1A-12D	5A 250VAC	IEC/EN 61810-1	TUV R 50160373
Alt.	SHENZHEN GOLDEN ELECTRICALAPPLIANCES CO.,LTD	GI-1A-12DHS	10A 250VAC	IEC/EN 61810-1	TUV R 50160373
Alt.	Anhui Mingguang Life Electronic Co., Ltd	BPM3-SS-112LM	Coil:12 VDC, 16A, 250 VAC, T85	IEC/EN 61810-1	TUV R 50372415
Alt	Zhejiang HKE Relay Co., Ltd.	HRS4NH-S-DC12V-A1	Coil:12 VDC, 17A,277VAC,T85	IEC/EN 61810-1	TUV R 50367249
Alt.	Zhejiang HKE Relay Co., Ltd.	AC5N-S-DC12V	5A 250 V~ T85	IEC/EN 61810-1	VDE 40024200
Alt.	Zhejiang HKE Relay Co., Ltd.	HCP3-S-DC12V-A	16A 250 V~ T85	IEC/EN 61810-1	TUV R 50097843
Alt.	Zhejiang HKE Relay Co., Ltd.	HRS4H-S-DC12V	10A 250 V~ T85	IEC/EN 61810-1	TUV R 50116136
Relay	zhejiang HKE Relay Co., Ltd	HRS3F-S-DC12V-A	Coil:12 VDC, 5A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R 50223752

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity 1)
Relay	zhejiang HKE Relay Co., Ltd	HRS3FN-S- DC12V-A	Coil:12 VDC, 10A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R 50223752
Alt.	WangRong Electronics (Shenzhen) Co. Ltd.	RD-112DM- A-S	Coil:12 VDC, 10A, 277 V~ T105	IEC/EN 61810-1	VDE 40047206
Alt.	WangRong Electronics (Shenzhen) Co. Ltd.	RMI-SS- 112LM-S	Coil:12 VDC, 10A, 277 V~ T105	IEC/EN 61810-1	TUV 50242245
Alt.	WangRong Electronics (Shenzhen) Co. Ltd.	RMIH-SS- 112LM	Coil:12 VDC, 16A, 277 V~ T105	IEC/EN 61810-1	TUV 50242245
Alt.	Dong Guan Churod Electronics Co., Ltd	CHW-S- 112DA2	Coil:12 VDC, 10A, 250 VAC, T105, 1E5	IEC/EN 61810-1	TUV R 50254542
Alt.	Dong Guan Churod Electronics Co., Ltd	A1-S-112HA	Coil:12 VDC, 10A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R 50174892
Alt.	Dong Guan Churod Electronics Co., Ltd	CHM-S- 112DA3	Coil:12 VDC, 5A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R50196152
Alt.	Dong Guan Churod Electronics Co., Ltd	A16-V- 112DA2F	Coil:12 VDC, 16A, 250 VAC, T85, 1E5	IEC/EN 61810-1	TUV R50461636
Filter Capacitor	Dain Electronic Co., Ltd.,	MPX, MEX	0.22µF 0.1µF 0.047µF 0.01µF 275V~ T110	IEC/EN 60384-14	VDE 40018798
Alt.	Wuxi Jiyang Electron Co. Ltd.,	MKP	0.22µF 0.1µF 0.047µF 0.01µF 300V~ T110	IEC/EN 60384-14	VDE 40033053
Alt.	Shenzhen Weidy Industrial Development Co., Ltd	MKP	0.22µF 0.1µF 0.047µF 0.01µF 310 V~ T110	IEC/EN 60384-14	VDE 40041066
Alt.	Xiamen Faratronic Co.,Ltd.	MKP62	0.22µF 0.1µF 0.047µF 0.01µF 305 V~ T110	IEC/EN 60384-14	VDE 40000358

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Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity 1)
Capacitor	Shenzhen Weidy Industrial Development Co., Ltd.	AR Series	Rated voltage: AC 500V Rated capacitance 1000pF,2200pF, 4700pF	IEC/EN 60384-14	VDE 40046156
Alt.	Shenzhen Weidy Industrial Development Co., Ltd.	AB Series	1000pF,2200pF, 4700pF X1: AC 400 V / or Y2: AC 300 V	IEC/EN 60384-14	VDE 40046155
Alt.	JYH HSU (JEC) ELECTRONICS LTD	JD	Rated voltage: AC 500V / 400V Rated capacitance 1000pF,2200pF, 4700pF	IEC/EN 60384-14	VDE 40038642
Alt.	JYH HSU (JEC) ELECTRONICS LTD	JY	1000pF,2200pF, 4700pF AC 400V / 300V/ 250V	IEC/EN 60384-14	VDE 40038643
Varistor	Guangxi New Future Information Industry Co., Ltd.,	NFC	10D561K, AC 2500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40030322
Alt.	Centra Science (Holdings) Ltd	CNR	10D561K AC 2500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40008220
Alt.	Guangxi New Future Information Industry Co., Ltd.,	NFC	10D621K, AC 2500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40030322
Alt.	Guangxi New Future Information Industry Co., Ltd.,	NFC	14D561K, AC 4500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40030322
Alt.	Guangxi New Future Information Industry Co., Ltd.,	NFC	14D681K, AC 4500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40030322
Alt.	Fenghua Adv.(Holding) Co., Ltd.,	FNR	10K471, AC 2500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40008242
Alt.	Fenghua Adv.(Holding) Co., Ltd.,	FNR	10K561, AC 2500V;T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40008242
Alt.	Hongzhi Enterprises Ltd	HEL	10D561K 2500 V~ T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40037512

EN 60335-2-11					
Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity 1)
Alt.	Hongzhi Enterprises Ltd	HEL	10D621K 2500 V~ T85	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2	VDE 40037512
Electronic Control Board	Wuxi Longtai Technology Co., LTD	LT-GYJ-P01	220-240V~ 50/60Hz	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with the appliance
Electronic Control Board	Ningbo Silang Intelligent Technology Development Co. Ltd.	GDZ60- 618E	220-240V~ 50/60Hz	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with the appliance
Close-end Connector	Yuyao jinjiang Electric & Plastic Co., Ltd	PA : HC3	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with the appliance
Plug and Socket Terminal Plastic	Yuyao jinjiang Electric & Plastic Co., Ltd	PA : HC3	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with the appliance
Enclosure of appliance	Anhui Osvo Science & Technology CO.,LTD	ABS:PA757 K	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with the appliance
PCB	Kingboard Laminates Holdings Ltd.	CEM-1:FR-4	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance
Connector On PCB	Zhejiang Bangtong Electric Appliance Co., Ltd.	PA : PA66	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance
PCB Supporting Plastic	Anhui Osvo Science & Technology CO.,LTD	ABS:PA757 K	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance
The jacket of Internal Wire	Anhui Osvo Science & Technology CO.,LTD	PA:PA66	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance
Connector sheath	Anhui Osvo Science & Technology CO.,LTD	/	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance
Plastic of Door Switch / ZW7	Yueqing Zhongma Electric Co., Ltd.	/	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance
PTC Supporting Plastic/ PPS/R-4- 230BL	Hefei Chi'ao mould Co.,LTD	/	--	IEC/EN 60335-1 IEC/EN 60335-2- 11	Tested with appliance

EN 60335-2-11					
Clause	Requirement + Test			Result - Remark	Verdict
24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
28.1	TABLE: Threaded part torque test		P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)
Screw for enclosure	3.9	II	1.2
Screw for earthing	3.9	II	1.2
Supplementary information: N/A			

29.1	TABLE: Clearances					P
	Overvoltage category..... : :			II		—
		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**					N/A
500	0.2* / 0.5 / 0.8**					N/A
800	0.2* / 0.5 / 0.8**					N/A
1 500	0.5 / 0.8** / 1.0***					N/A
2 500	1.5 / 2.0***	>2.0	>2.0		>2.0	P
4 000	3.0 / 3.5***	>5.0	>5.0	>5.0	>5.0	P
6 000	5.5 / 6.0***			>8.0		P
8 000	8.0 / 8.5***					N/A
10 000	11.0 / 11.5***					N/A

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

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

Basic insulation(B):

B1:Between the motor winding and the motor enclosure:Cr.>2.0mm,Cl.>4.0mm

B2:Between the live part of internal wires for capacitor connection and the wire connector enclosure:
Cr.>5.0mm,Cl.>8.0mm

Supplementary insulation(S):

S1: Between the internal wires and the accessible part of enclosure: Cr.>2.0mm,Cl.>4.0mm

S2:Between internal wire for capacitor connection and the accessible part of enclosure:
Cr.>5.0mm,Cl.>8.0mm;

Functional insulation(F):

F1: Between two terminals of safety switch: Cr.>2.0mm,Cl.>4.0mm;

F2: Between two live part of wire connector for capacitor connection: Cr.>5.0mm,Cl.>8.0mm;

Reinforced insulation(R):

R1: Between live part and accessible part of enclosure: Cr.>5.0mm,Cl.>8.0mm

R2: Between the live part of internal wires for capacitor connection and accessible part of enclosure:
Cr.>8.0mm,Cl.>21.0mm

EN 60335-2-11											
Clause	Requirement + Test						Result - Remark			Verdict	
29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage (V)	Creepage distance (mm) Pollution degree										
	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		—	—	N/A
≤50	0.18	0.6	0.85	1.2	1.5	1.7	1.9	—		—	N/A
≤50	0.36	1.2	1.7	2.4	3.0	3.4	3.8	—	—		N/A
125	0.28	0.75	1.05	1.5	1.9	2.1	2.4		—	—	N/A
125	0.28	0.75	1.05	1.5	1.9	2.1	2.4	—		—	N/A
125	0.56	1.5	2.1	3.0	3.8	4.2	4.8	—	—		N/A
250	0.56	1.25	1.8	2.5	3.2	3.6	4.0	>4.0	—	—	P
250	0.56	1.25	1.8	2.5	3.2	3.6	4.0	—	>4.0	—	P
250	1.12	2.5	3.6	5.0	6.4	7.2	8.0	—	—	>8.0	P
400	1.0	2.0	2.8	4.0	5.0	5.6	6.3	>8.0	—	—	P
400	1.0	2.0	2.8	4.0	5.0	5.6	6.3	—	>8.0	—	P
400	2.0	4.0	5.6	8.0	10.0	11.2	12.6	—	—	>21.0	P
500	1.3	2.5	3.6	5.0	6.3	7.1	8.0		—	—	N/A
500	1.3	2.5	3.6	5.0	6.3	7.1	8.0	—		—	N/A
500	2.6	5.0	7.2	10.0	12.6	14.2	16.0	—	—		N/A
>630 and ≤800	1.8	3.2	4.5	6.3	8.0	9.0	10.0		—	—	N/A
>630 and ≤800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	—		—	N/A
>630 and ≤800	3.6	6.4	9.0	12.6	16.0	18.0	20.0	—	—		N/A
>800 and ≤1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5		—	—	N/A
>800 and ≤1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	—		—	N/A
>800 and ≤1000	4.8	8.0	11.2	16.0	20.0	22.0	25.0	—	—		N/A
>1000 and ≤1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0		—	—	N/A
>1000 and ≤1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0	—		—	N/A
>1000 and ≤1250	6.4	10.0	14.2	20.0	25.0	28.0	32.0	—	—		N/A
>1250 and ≤1600	4.2	6.3	9.0	12.5	16.0	18.0	20.0		—	—	N/A
>1250 and ≤1600	4.2	6.3	9.0	12.5	16.0	18.0	20.0	—		—	N/A

EN 60335-2-11											
Clause	Requirement + Test							Result - Remark			Verdict
>1250 and ≤1600	8.4	12.6	18.0	25.0	32.0	36.0	40.0	—	—		N/A
>1600 and ≤2000	5.6	8.0	11.0	16.0	20.0	22.0	25.0		—	—	N/A
>1600 and ≤2000	5.6	8.0	11.0	16.0	20.0	22.0	25.0	—		—	N/A
>1600 and ≤2000	11.2	16.0	22.0	32.0	40.0	44.0	50.0	—	—		N/A
>2000 and ≤2500	7.5	10.0	14.0	20.0	25.0	28.0	32.0		—	—	N/A
>2000 and ≤2500	7.5	10.0	14.0	20.0	25.0	28.0	32.0	—		—	N/A
>2000 and ≤2500	15.0	20.0	28.0	40.0	50.0	56.0	64.0	—	—		N/A
>2500 and ≤3200	10.0	12.5	18.0	25.0	32.0	36.0	40.0		—	—	N/A
>2500 and ≤3200	10.0	12.5	18.0	25.0	32.0	36.0	40.0	—		—	N/A
>2500 and ≤3200	20.0	25.0	36.0	50.0	64.0	72.0	80.0	—	—		N/A
>3200 and ≤4000	12.5	16.0	22.0	32.0	40.0	45.0	50.0		—	—	N/A
>3200 and ≤4000	12.5	16.0	22.0	32.0	40.0	45.0	50.0	—		—	N/A
>3200 and ≤4000	25.0	32.0	44.0	64.0	80.0	90.0	100.0	—	—		N/A
>4000 and ≤5000	16.0	20.0	28.0	40.0	50.0	56.0	63.0		—	—	N/A
>4000 and ≤5000	16.0	20.0	28.0	40.0	50.0	56.0	63.0	—		—	N/A
>4000 and ≤5000	32.0	40.0	56.0	80.0	100.0	112.0	126.0	—	—		N/A
>5000 and ≤6300	20.0	25.0	36.0	50.0	63.0	71.0	80.0		—	—	N/A
>5000 and ≤6300	20.0	25.0	36.0	50.0	63.0	71.0	80.0	—		—	N/A
>5000 and ≤6300	40.0	50.0	72.0	100.0	126.0	142.0	160.0	—	—		N/A
>6300 and ≤8000	25.0	32.0	45.0	63.0	80.0	90.0	100.0		—	—	N/A
>6300 and ≤8000	25.0	32.0	45.0	63.0	80.0	90.0	100.0	—		—	N/A
>6300 and ≤8000	50.0	64.0	90.0	126.0	160.0	180.0	200.0	—	—		N/A
>8000 and ≤10000	32.0	40.0	56.0	80.0	100.0	110.0	125.0		—	—	N/A
>8000 and ≤10000	32.0	40.0	56.0	80.0	100.0	110.0	125.0	—		—	N/A
>8000 and ≤10000	64.0	80.0	112.0	160.0	200.0	220.0	250.0	—	—		N/A
>10000 and ≤12500	40.0	50.0	71.0	100.0	125.0	140.0	160.0		—	—	N/A
>10000 and ≤12500	40.0	50.0	71.0	100.0	125.0	140.0	160.0	—		—	N/A
>10000 and ≤12500	80.0	100.0	142.0	200.0	250.0	280.0	320.0	—	—		N/A
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											

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

29.2	TABLE: Creepage distances, functional insulation							
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	N/A
50	0.16	0.56	0.8	1.0	1.4	1.6	1.8	N/A
125	0.25	0.71	1.0	1.4	1.8	2.0	2.2	N/A
250	0.42	1.0	1.4	2.0	2.5	2.8	3.2	P(>5.0)
400	0.75	1.6	2.2	3.2	4.0	4.5	5.0	P(>8.0)
500	1.0	2.0	2.8	4.0	5.0	5.6	6.3	N/A
>630 and ≤800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	N/A
>800 and ≤1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	N/A
>1000 and ≤1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0	N/A
>1250 and ≤1600	4.2	6.3	9.0	12.5	16.0	18.0	20.0	N/A
>1600 and ≤2000	5.6	8.0	11.0	16.0	20.0	22.0	25.0	N/A
>2000 and ≤2500	7.5	10.0	14.0	20.0	25.0	28.0	32.0	N/A
>2500 and ≤3200	10.0	12.5	18.0	25.0	32.0	36.0	40.0	N/A
>3200 and ≤4000	12.5	16.0	22.0	32.0	40.0	45.0	50.0	N/A
>4000 and ≤5000	16.0	20.0	28.0	40.0	50.0	56.0	63.0	N/A
>5000 and ≤6300	20.0	25.0	36.0	50.0	63.0	71.0	80.0	N/A
>6300 and ≤8000	25.0	32.0	45.0	63.0	80.0	90.0	100.0	N/A
>8000 and ≤10000	32.0	40.0	56.0	80.0	100.0	110.0	125.0	N/A
>10000 and ≤12500	40.0	50.0	71.0	100.0	125.0	140.0	160.0	N/A
Supplementary information:								
*) Material group IIIb is allowed if the working voltage does not exceed 50 V								

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

30.1	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm):		≤2.0		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Enclosure of appliance / ABS:PA757K	Anhui Osvo Science & Technology CO.,LTD	75	1.2	
PCB Supporting Plastic / ABS:PA757K	Anhui Osvo Science & Technology CO.,LTD	75	1.2	
PCB / CEM-1:FR-4	Kingboard Laminates Holdings Ltd.	125	0.7	
Plastic of Door Switch / ZW7	Yueqing Zhongma Electric Co., Ltd.	125	1.7	
PTC Supporting Plastic/ PPS/R-4-230BL	Hefei Chi`ao mould Co.,LTD	125	1.2	
Supplementary information: N/A				

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

30.2	TABLE: Resistance to heat and fire - Glow wire tests							P
Object/ Part No./ Material	Manufacturer / trademark	Glow wire test (GWT); (°C)						Verdict
		550	650		750		850	
			te	ti	te	ti		
Enclosure of appliance / ABS:PA757 K	Anhui Osvo Science & Technology CO.,LTD	P	N/A	N/A	N/A	N/A	N/A	P
Connector on PCB / PA:PA66	Zhejiang Bangtong electric appliance Co., Ltd.	N/A	N/A	N/A	No flame	No flame	P	P
PCB Supporting Plastic / ABS:PA757 K	Anhui Osvo Science & Technology CO.,LTD	P	N/A	N/A	N/A	N/A	N/A	P
Close-end Connector/ PA:HC3	Yuyao jinjiang Electric&Plast ic Co., ltd	N/A	N/A	N/A	No flame	No flame	P	P
Plastic of Door Switch / ZW7	Yueqing Zhongma Electric Co., Ltd.	N/A	N/A	N/A	No flame	No flame	P	P
The jacket of Internal Wire	Anhui Osvo Science & Technology CO.,LTD	N/A	N/A	N/A	No flame	No flame	P	P
Connector sheath	Anhui Osvo Science & Technology CO.,LTD	N/A	N/A	N/A	No flame	No flame	P	P
PTC Supporting Plastic/ PPS/R-4- 230BL	Hefei Chi`ao mould Co.,LTD	N/A	N/A	N/A	No flame	No flame	P	P
Object/ Part No./ Material	Manufacturer / trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	
N/A								
The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) ≤ 2s] (Yes/No) :								Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No).....:								N/A
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?:								No

EN 60335-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

Ignition of the specified layer placed underneath the test specimen (Yes/No).....:	No
Supplementary information: - 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances	

30.2/30.2.4	TABLE: Needle- flame test (NFT)				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
PCB / FR-4	Kingboard Laminates Holdings Ltd.	30	No	0	P
Supplementary information: - NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1 - NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0					

Attachment 1: Photos of appliance.

Model: GDZ40-468E, GDZ30-468E, GDZ25-468E



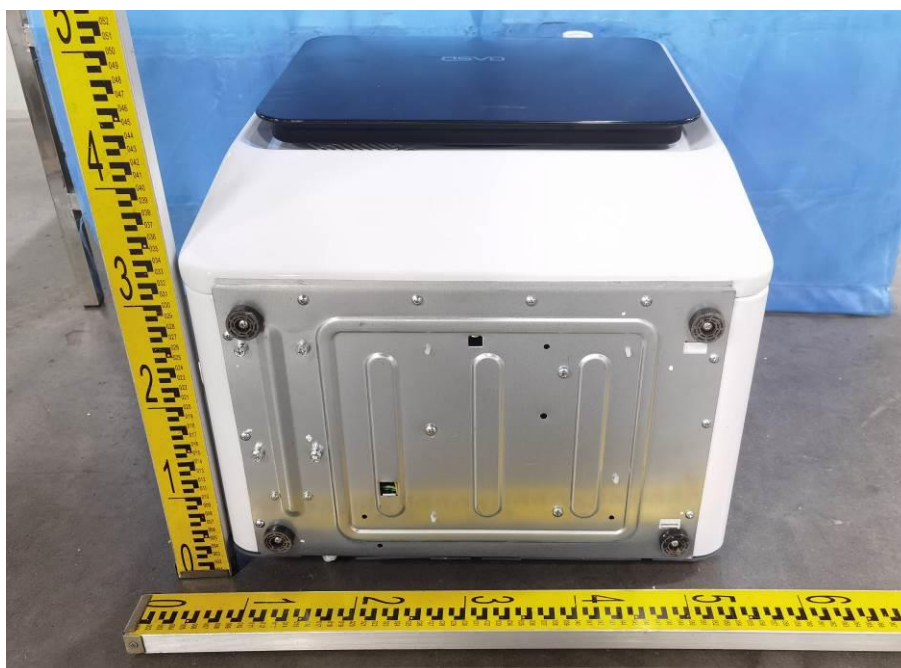
Attachment 1: Photos of appliance.



Attachment 1: Photos of appliance.

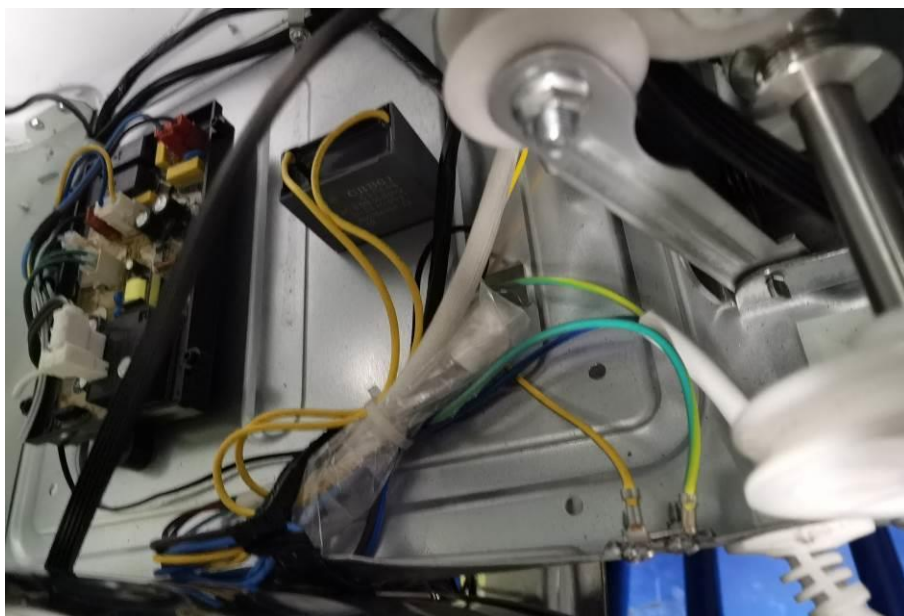
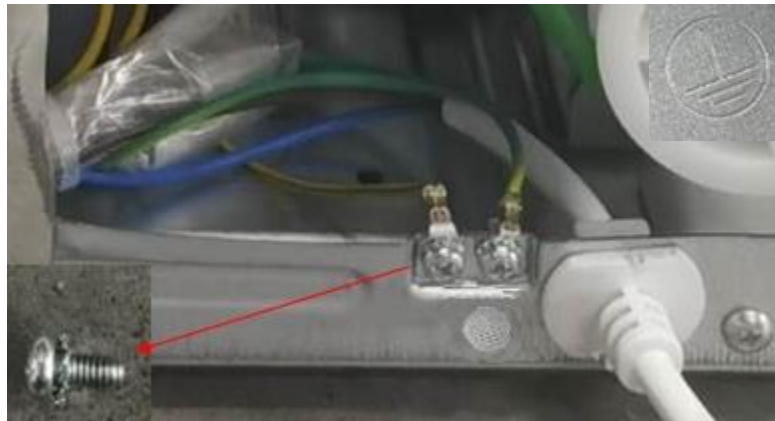


Attachment 1: Photos of appliance.



There is a flanging treatment

Attachment 1: Photos of appliance.



Attachment 1: Photos of appliance.

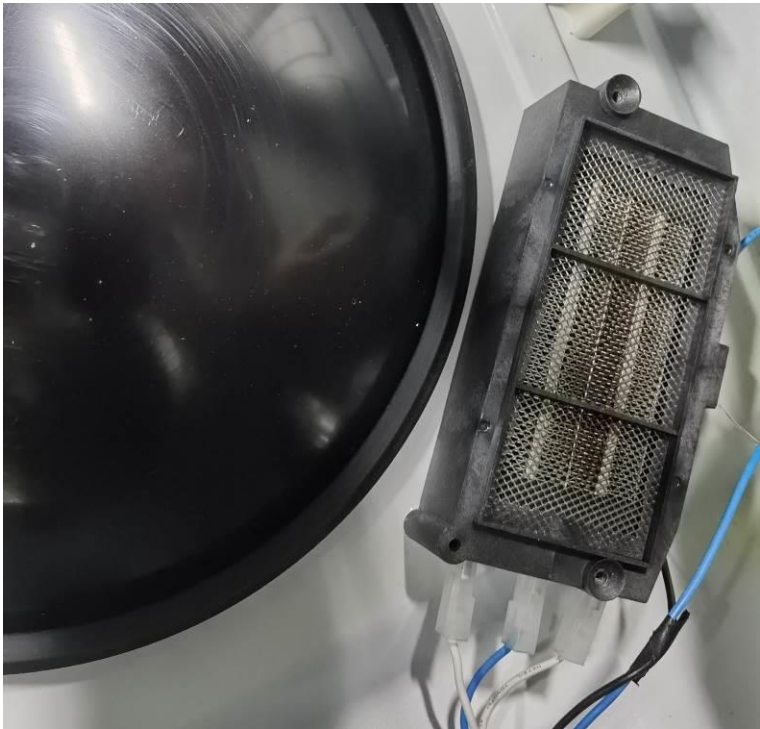


Non-self-reset Thermal Cut-out

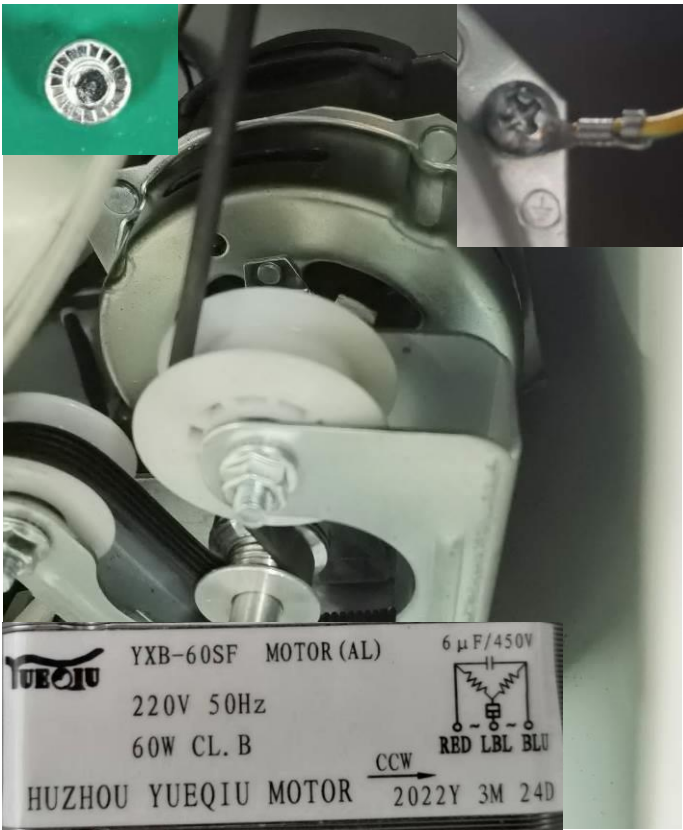


Self-reset Thermal Cut-out for Heater

Attachment 1: Photos of appliance.



PTC



Attachment 1: Photos of appliance.

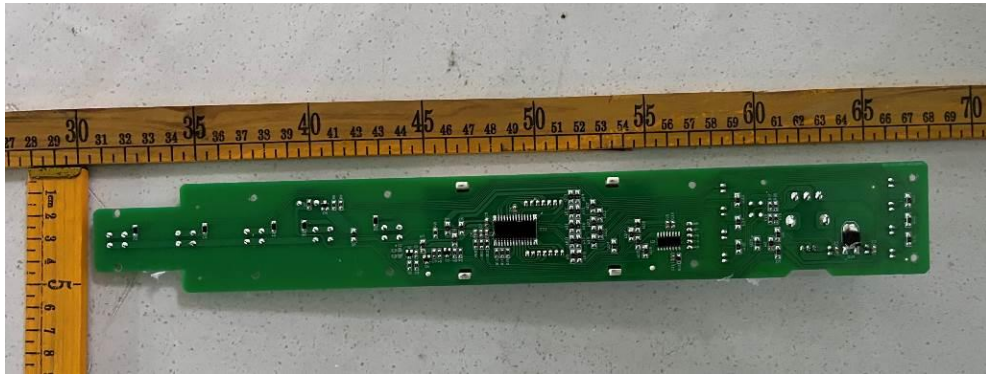


Attachment 1: Photos of appliance.

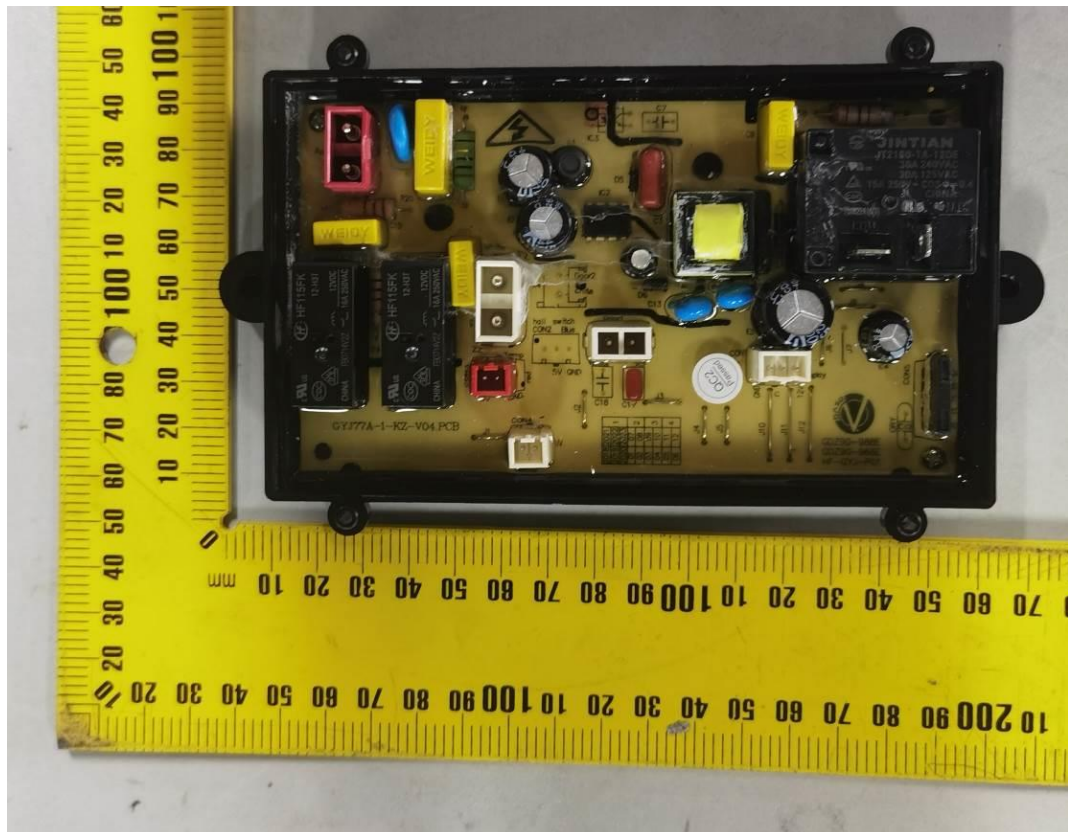


GDZ40-468E, GDZ30-468E, GDZ25-468E front surface of display board

Attachment 1: Photos of appliance.



GDZ40-468E, GDZ30-468E, GDZ25-468E rear surface of display board

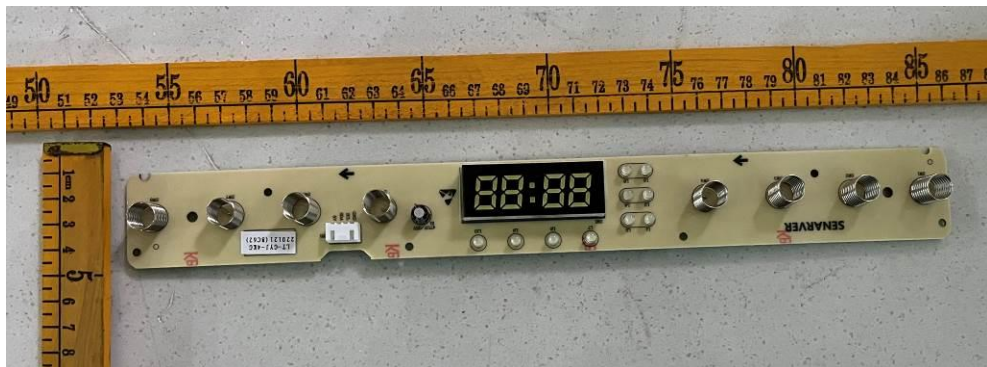


Electronic Control Board: GDZ60-618E

Attachment 1: Photos of appliance.

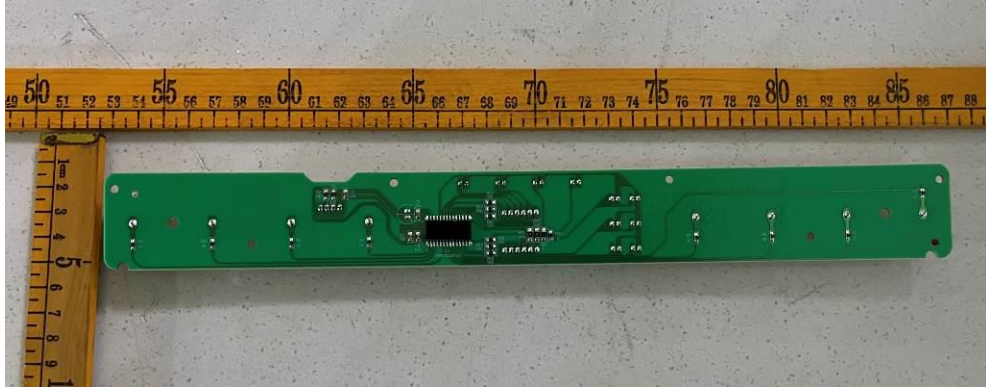


Model GDZ40-418E, GDZ30-418E, GDZ25-418E



GDZ40-418E, GDZ30-418E, GDZ25-418E front surface of display board

Attachment 1: Photos of appliance.



GDZ40-418E, GDZ30-418E, GDZ25-418E rear surface of display board

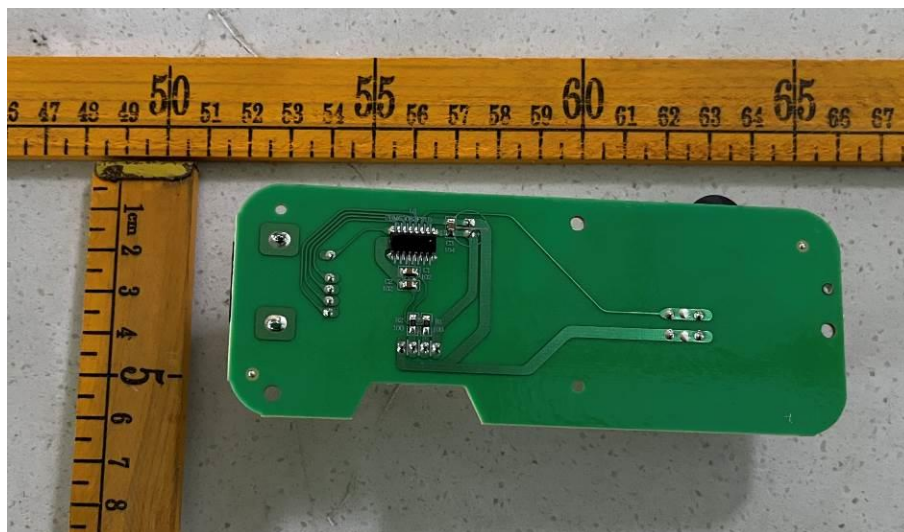


Model: GDZ40-458E, GDZ30-458E, GDZ25-458E

Attachment 1: Photos of appliance.

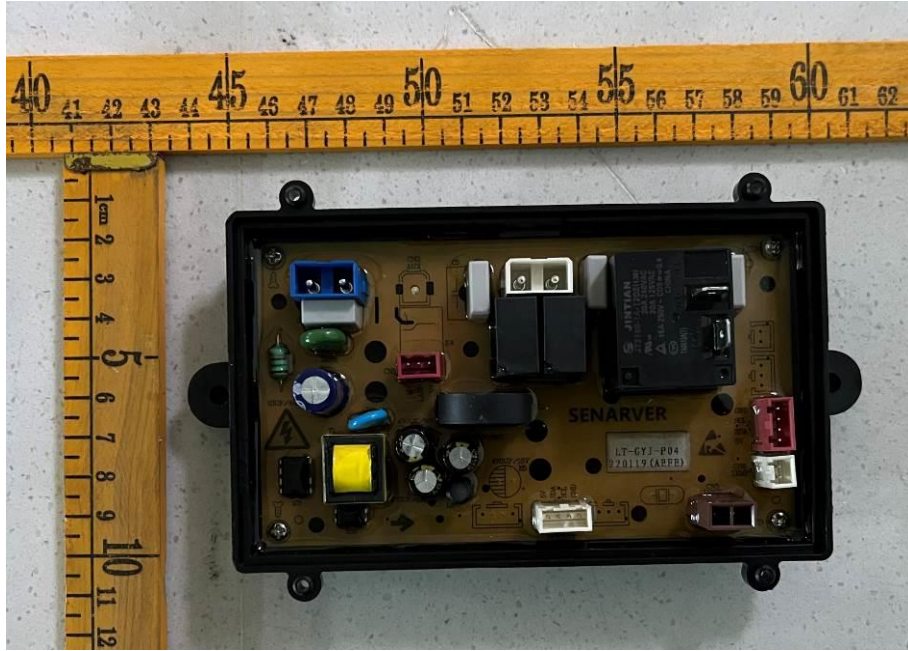


GDZ40-458E, GDZ30-458E, GDZ25-458E front surface of display board



GDZ40-458E, GDZ30-458E, GDZ25-458E rear surface of display board

Attachment 1: Photos of appliance.



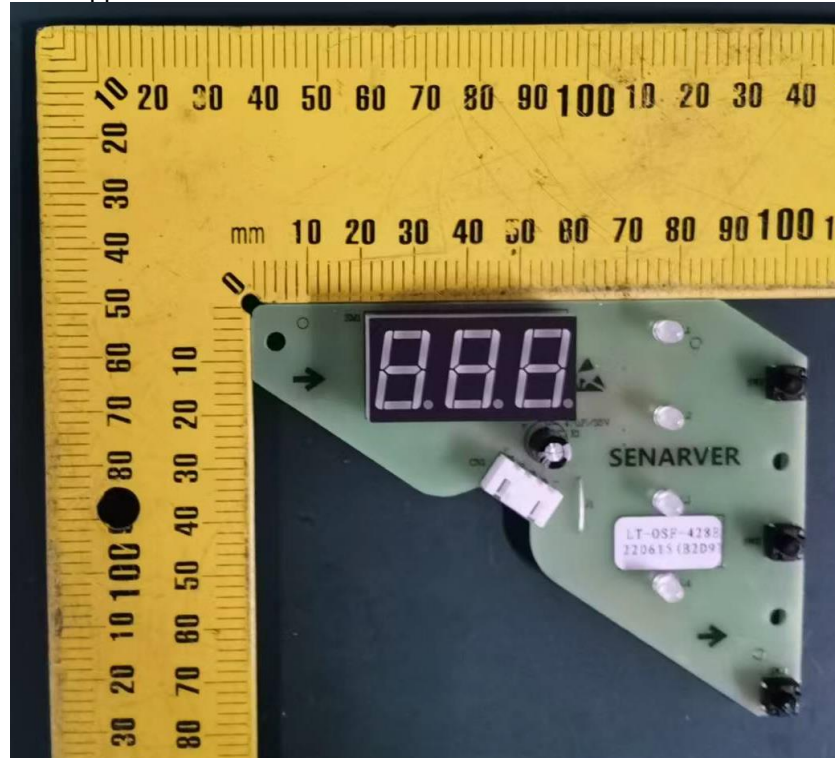
Electronic Control Board: LT-GYJ-P01

Attachment 1: Photos of appliance.

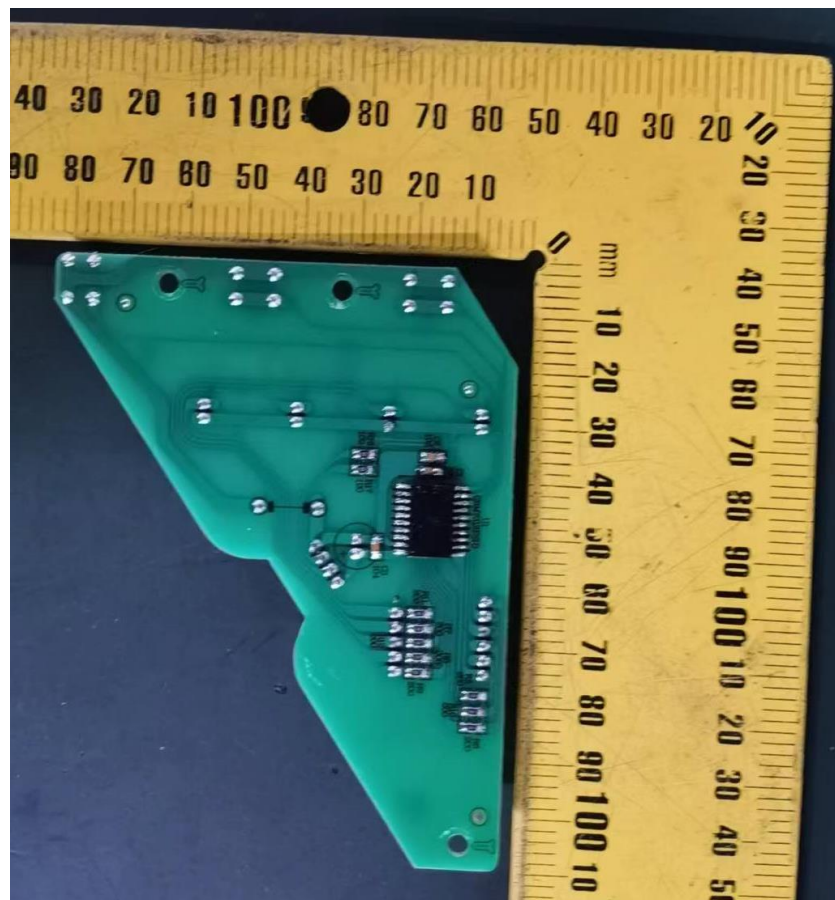
GDZ40-428E, GDZ30-428E



Attachment 1: Photos of appliance.



GDZ40-428E, GDZ30-428E front surface of display board



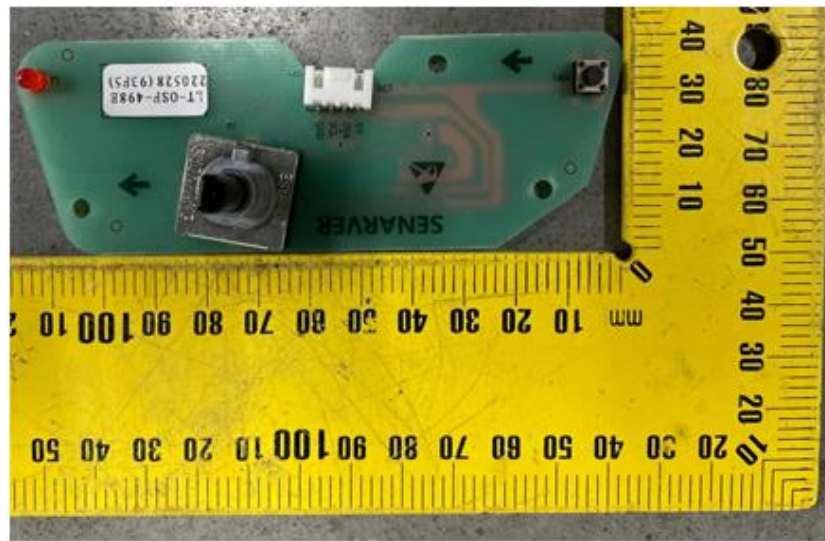
GDZ40-428E, GDZ30-428E rear surface of display board

Attachment 1: Photos of appliance.

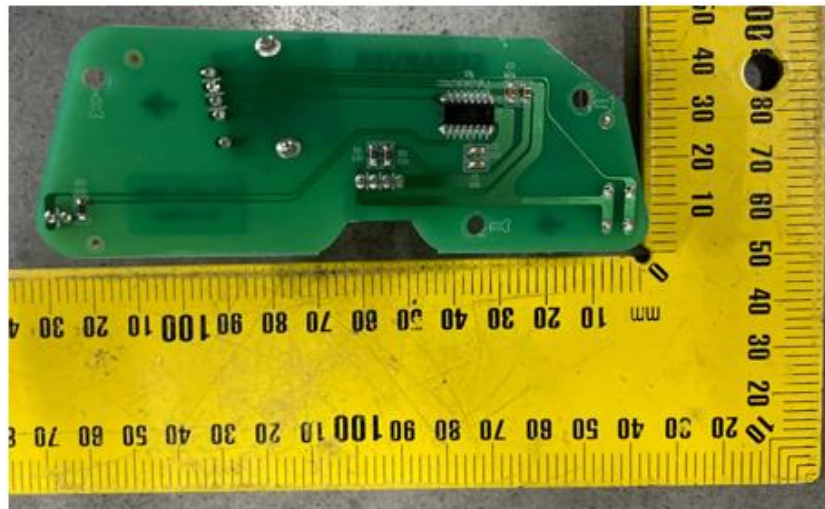
GDZ40-498E,GDZ30-498E



Attachment 1: Photos of appliance.



GDZ40-498E, GDZ30-498E front surface of display board



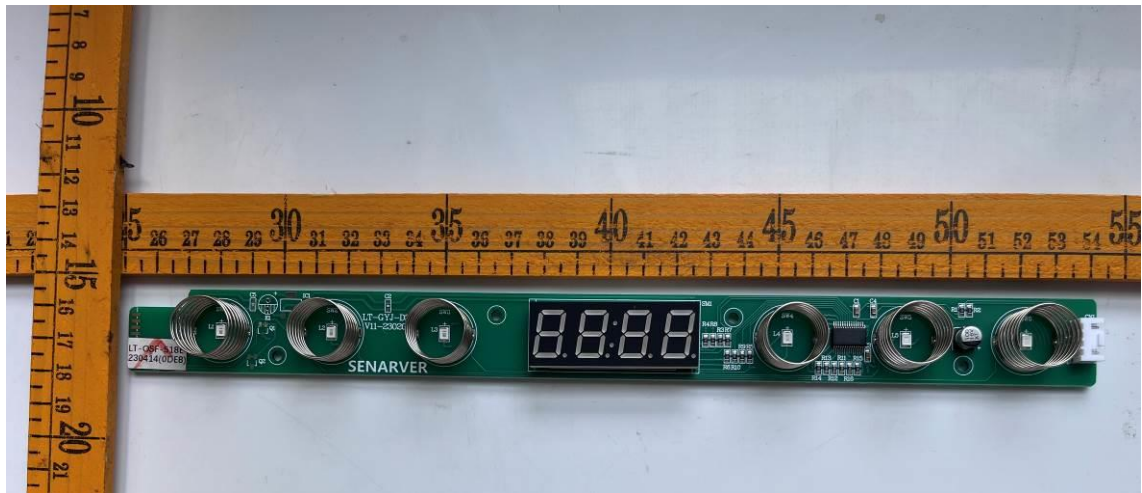
GDZ40-498E, GDZ30-498E rear surface of display board

Attachment 1: Photos of appliance.

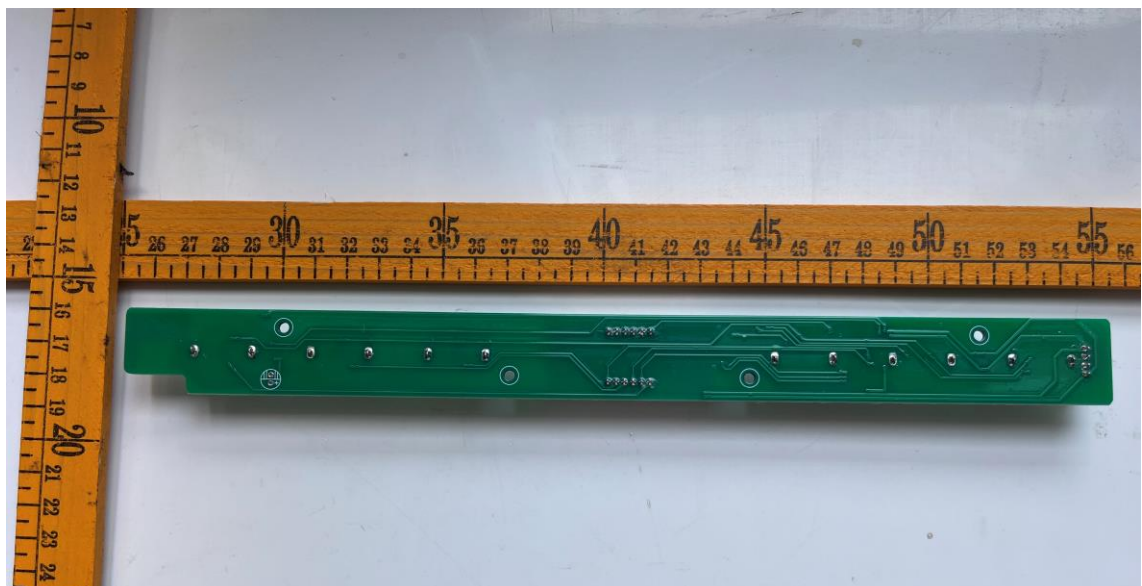
model GDZ25-518E, GDZ40-518E, GDZ30-518E



Attachment 1: Photos of appliance.



GDZ25-518E, GDZ40-518E, GDZ30-518E front surface of display board



GDZ25-518E, GDZ40-518E, GDZ30-518E rear surface of display board