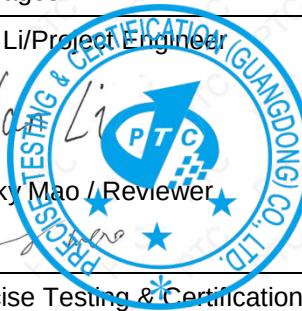


**TEST REPORT
UL 60335-1****Standard for Safety of Household and Similar Electrical Appliances
Part 1: General Requirements****Report Number.:** PTC26030922301S-UL01**Date of issue** 2026-04-20**Total number of pages.....:** 64 pages**Tested by (name + signature)** Nan Li/Project Engineer**Approved by (name + signature) ...:** Rocky Mao /Reviewer**Testing Laboratory Name** Precise Testing & Certification (Guangdong) Co., Ltd.**Address** Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China**Applicant's name.....:** Dongguan Qiqiang E-commerce Co., Ltd.**Address** Room 510, No. 4 Jiamei Road, Xinan Community, Changan Town, Dongguan, Guangdong, 523000, China**Manufacturer's name** Yiwu Taylor Machinery&Equipment Co.,Ltd**Address** No.96, Shangcheng Street,Shangxi Town,Yiwu,Zhejiang Province,China**Standard** UL 60335-1, Edition 6**Test procedure** PTC**Non-standard test method.....:** N/A**Test item description:** Heat Press Machine**Trade Mark** N/A**Model/Type reference** AMB005460**Ratings** 120V~ 60Hz 10A 1200W**General disclaimer:**

This report is only for applicant use. Any copying this report to/for any other person or entity, and use our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Copy of marking plate:**The artwork below may be only a draft.**

Heat Press Machine
Model: AMB005460
Input: 120V~ 60Hz 10A 1200W
Manufacturer: Yiwu Taylor Machinery&Equipment Co.,Ltd
Made in China

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** : 2026-03-13**Date (s) of performance of tests** : 2026-03-13 to 2026-03-30**Name and address of factory (ies).....**: Same as manufacturer**General product information:**

1. The appliance is intended for household use only.
2. The product comes in different colours.

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Clause	Requirement + Test	Result - Remark	Verdict
6	CLASSIFICATION		—
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Class I	P
6.1DV	<i>DR Modification to add the following:</i>		—
	<i>CLASS 0I appliances are not allowed.</i>		P
6.2	Protection against harmful ingress of water		N/A
7	MARKING AND INSTRUCTIONS		—
7.1	Rated voltage or voltage range (V)	See marking plate	P
	Symbol for nature of supply, or	See marking plate	P
	Rated frequency (Hz)	See marking plate	P
	Rated power input (W), or		N/A
	Rated current (A)	See marking plate	P
	Manufacturer's or responsible vendor's name, trademark or identification mark	See marking plate	P
	Model or type reference	See marking plate	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0	IPX0	N/A
	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
7.1DV.1	<i>D2 Modification to add a paragraph after the seventh dashed item of Clause 7.1:</i>		—
	<i>Ingress protection markings in addition to the IP ratings are acceptable. If marked, the appliance shall also comply with the referenced standards of Annex DVA (Boxes, Conduit and Fittings). Additional markings, where used, shall be as specified in the applicable Part 2.</i>		N/A
7.1DV.2	<i>DR Modification to add the following after the compliance statement of Clause 7.1:</i>		—

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>If the temperature rise of the insulation of the fixed wiring supplying an appliance for permanent connection to the supply mains exceeds the temperature rise specified in Table 3 during the test of Clause 11, the equipment shall be marked with the substance of the following:</i> "Use supply wires suitable for ____ °C"		N/A
7.1DV.3	DR Modification to add the following (Canada Only):		—
	In Canada, warnings shall be written in English and French.		N/A
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	120V	P
	Different rated values marked with the values separated by an oblique stroke	60Hz	P
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 or current are related to the arithmetic mean value of the rated voltage range		N/A
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		P
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	correct mode of connection is obvious		N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		—
	- marking of terminals exclusively for the neutral conductor (letter N)		N/A
	- 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		N/A
7.8DV	<i>DR Modification to revise first dashed item as follows:</i>		—
	<i>– terminals used for type X attachment, intended exclusively for the neutral conductor shall be indicated by the letter N;</i>		N/A
7.9	Marking or placing of switches which may cause a hazard		P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means :	By figures	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
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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
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
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 DV	Delete Clause 7.12.3.		—
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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.13	Instructions and other texts in an official language	English	P
7.13DV	<i>DR Modification to add the following (Canada Only):</i>		—
	<i>In Canada the French translation of the warning of Clause 7.2 is as follows: Avertissement: Avant d'accéder aux bornes de raccordement, tous les circuits d'alimentation doivent être déconnectés.</i>		N/A
7.14	Marking clearly legible and durable, rubbing test as specified		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	The 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

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Clause	Requirement + Test	Result - Remark	Verdict
7.17DV	<i>DR Addition:</i>		—
	<i>Appliances requiring the usage of time delay overcurrent PROTECTIVE DEVICES in accordance with 9DV.2 shall be so marked to indicate the use of time delay fuses only.</i>		N/A
7.18DV	<i>DR Addition:</i>		—
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		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		P
8.1.1DV.1	<i>D2 Modification to replace the second paragraph with the following:</i>		—
	<i>Lamps located behind a DETACHABLE COVER are not removed, provided that a screwshell type lampholder, if any, is connected to a circuit with a potential less than 150 V-to-ground and the screwshell is connected to the grounded (neutral) conductor, and the appliance can be isolated from the supply mains by means of a plug or an all-pole switch.</i>		N/A
	<i>However, during insertion or removal of lamps that are located behind a detachable cover, protection against contact with LIVE PARTS of the lamp cap shall be ensured.</i>		N/A
8.1.1DV.2	<i>D1 Modification to add the following after the third paragraph:</i>		—
	<i>In addition, the articulated probe of Figure 13DV shall be applied as described for test probe B (IEC 61032) when the product is:</i> a) A hand-held product, or a hand-held part of a product; or b) Accessible to children while the product is operating.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		P
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements		N/A
8.1.4	Accessible part not considered live if:		N/A
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42.4 V		N/A
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0.7 mA		N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μ F		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μ C		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.4DV	<i>D2 Modification to replace second bullet in first paragraph to read as follows:</i>		—
	• for d.c., the voltage does not exceed 30 V;		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

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>Appliances equipped with output terminals supplied from a LIMITED POWER SOURCE and intended for connection to a fixed wiring method shall be marked to indicate Class 2 wiring.</i>		N/A
9	STARTING OF MOTOR-OPERATED APPLIANCES		N/A
10	POWER INPUT AND CURRENT		P
11	HEATING		P
12	VOID		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		P
14	TRANSIENT OVERVOLTAGES		N/A
15	MOISTURE RESISTANCE		P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		P
17	OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS		N/A
18	ENDURANCE		N/A
19	ABNORMAL OPERATION		P
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	Not overturn	P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°		P
	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9		N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		N/A
	Protective enclosures, guards and similar parts are non-detachable, and		N/A
	have adequate mechanical strength		N/A
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		N/A
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Not possible to touch dangerous moving parts with the test probe described		N/A
20.2DV	<i>D1 Modification to add the following after the fourth paragraph:</i>		—
	<i>The articulated probe of Figure 13DV shall be applied with a force not exceeding 1 N when the product is:</i> a) <i>A hand-held product, or a hand-held part of a product; or</i> b) <i>Accessible to children while the product is operating.</i>		N/A
	<i>Through openings, the test probe is applied to any depth that the probe will permit and is rotated or angled before, during and after insertion to any position.</i>		N/A
21	MECHANICAL STRENGTH		—
21.1DV	<i>D2 Modification to replace the first, second and third paragraphs of 21.1 with 21.1DV.1 – 21.1DV.4:</i>		—
	<i>Appliances shall have adequate mechanical strength and be constructed to withstand thermal conditioning and such rough handling that may be expected in normal use.</i>		P
	<i>Compliance is checked by applying blows to the appliance in accordance with test Ehb of IEC 60068-2-75, the spring hammer test or the ball impact test.</i>		P
	<i>For both, the spring hammer test and ball impact test, the appliance is rigidly supported, and three blows having impact energy of 2,0 J are applied to every point of the enclosure that is likely to be weak.</i>		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		—

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Clause	Requirement + Test	Result - Remark	Verdict
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled		N/A
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		N/A
	- a supply cord fitted with a plug, or		N/A
	- 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
	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
22.2DV	<i>D2 Modification to add the following:</i>		—
	<i>Disconnection of the neutral is not required for all single-phase STATIONARY APPLIANCES.</i>		N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	For approved charger	P
22.3DV	<i>DC Modification to replace the 2nd and 3rd paragraph, and the Note, with the following:</i>		—
	<i>Compliance is checked in accordance with the tipping moment requirements of Annex DVC.</i>		P
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets		N/A
22.5	No risk of electric shock when touching the pins of the plug, for appliances having a capacitor with rated capacitance equal to or greater than 0,1 μ F, the appliance being disconnected from the supply at the instant of voltage peak		P
	Voltage not exceeding 34 V (V)..... :		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		N/A
	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless		P
	the substance has adequate insulating properties		N/A
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:		N/A
	- a non-self-resetting thermal cut-out is required by the standard, and		N/A
	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	they are voltage maintained		N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		N/A
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		N/A
	Tests as described		P
22.11DV	DC Modification to add the following (US only):		—
	Adhesives securing NON-DETACHABLE PARTS shall additionally have adequate bonding properties. Compliance is checked by the application of the Structural Adhesive standard of Annex DVA.		P
22.12	Handles, knobs etc. fixed in a reliable manner		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		P
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		P
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
22.12DV	<i>D1 Modification to add the following sentence to the note:</i>		—
	Friction fits are not considered reliable with respect to protection against a 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		N/A
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		P
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance		P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		N/A
22.22	Appliances not containing asbestos		P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported		N/A
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts		N/A
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation		P
22.27	Parts connected by protective impedance separated by double or reinforced insulation		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
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
22.33DV	<i>D2 Modification to replace first sentence with the following:</i>		—
	<i>Conductive liquids that are or could possibly become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts shall not be indirect contact with LIVE PARTS.</i>		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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
22.35DV	<i>D2 Modification to add the following note:</i>		—
	<i>NOTE Accessible metal parts separated from LIVE PARTS by earthed metal parts are not regarded as likely to become live in the event of an insulation fault.</i>		N/A
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless		N/A
	they are separated from live parts by double or reinforced insulation		N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless		N/A
	the capacitors comply with 22.42		N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out		N/A
22.39	Lamp holders used only for the connection of lamps		N/A
22.39DV	<i>D2 Modification to add the following:</i>		—
	<i>The screwshell of a mains-connected Edison-base lampholder shall be reliably connected to the identified (neutral) conductor.</i>		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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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
22.40DV	<i>D2 Modification to add the following:</i>		—
	<i>A cord-connected product with a motor having a rated output of more than 249 W (1/3p) shall be provided with a manually operated motor-control switch.</i>		N/A
22.41	No components, other than lamps, containing mercury		N/A
22.42DV	<i>D2 Replace the first paragraph with the following:</i>		—
	<i>Protective impedance consisting of at least two separate components except that a single Y1 capacitor or a single resistor may be used.</i>		N/A
	<i>Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited.</i>		N/A
	<i>However, capacitors and resistors that individually comply with the requirements specified below need not be short-circuited.</i>		N/A
	NOTE <i>In all cases, the CLEARANCE and CREEPAGE DISTANCE requirements of Clause 29 still apply. This includes CREEPAGE DISTANCE over the external surface of a single capacitor or resistor used as a PROTECTIVE IMPEDANCE.</i>		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
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		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
22.52DV	D1 Modification to replace 22.52 with 22.52DV.1 – 22.52DV.2:		—
	Socket-outlets on appliances accessible to the user shall be in accordance with the socket-outlet standards of Annex DVA.		N/A
	NOTE The acceptability of such socket-outlets, their protection from overload, spillage, mechanical abuse or other conditions of use is addressed in the applicable part 2 standards.		N/A
	Compliance is checked by inspection.		N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict
	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously		N/A
22.55DV	D1 Addition (Canada only):		—
	Adhesives required for compliance with Clause 4 of this standard shall be durable.		N/A
	Compliance is checked by the test of Annex DVD.		N/A
	NOTE Label adhesives are not subjected to this test. Labels are covered by the requirements specified in Annex DVA.		N/A
22.56DV	D1 Addition (Canada only):		—
	Unless connected in series with gas discharge tubes, varistors shall not be connected between LIVE PARTS and accessible metal parts of appliances that have 1-15P, 5-15P, 1-20P, or 5-20P plug configurations.		N/A
	This does not apply to permanently connected appliances or appliances with other plug configurations.		N/A
23	INTERNAL WIRING		P
23.1	Wireways smooth and free from sharp edges		P
	Wires protected against contact with burrs, cooling fins etc.		P
	Wire holes in metal well-rounded or provided with bushings		N/A
	Wiring effectively prevented from coming into contact with moving parts		P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
	Flexible metallic tubes not causing damage to insulation of conductors		N/A
	Open-coil springs not used		N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
	Not more than 10% of the strands of any conductor broken, and		N/A
	not more than 30% for wiring supplying circuits that consume no more than 15W		N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		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,		N/A
	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
	be such that it can only be removed by breaking or cutting		N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict
24	COMPONENTS		P
24.1DV	DC Modification to replace 24.1 with 24.1DV.1 – 24.1DV.11:		—
24.1DV.1	Components shall comply with the safety requirements specified in the relevant standards of Annex DVA as far as they reasonably apply.		P
	List of components :	(see appended table)	P
24.1DV.2	Compliance with the standard for the relevant component does not necessarily ensure compliance with the requirements of this standard.		N/A
24.1DV.3	Motors are not required to comply with the standards specified in Annex DVA. They may be tested as part of the appliance according to this standard.		N/A
24.1DV.4	Unless otherwise specified, the requirements of Clause 29 of this standard apply between LIVE PARTS of components and ACCESSIBLE PARTS of the appliance. Unless otherwise specified, components may comply with the requirements for CLEARANCES and CREEPAGE DISTANCES for FUNCTIONAL INSULATION as specified in the relevant component standard.		P
24.1DV.5	Unless otherwise specified, the requirements of 30.2 of this standard apply to parts of non-metallic material in components, including parts of non-metallic materials supporting current-carrying connections inside components.		P
24.1DV.6	Components that have not been previously tested and shown to comply with the standard for the relevant component shall be tested according to the requirements of 30.2 of this standard.		P
24.1DV.7	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 a) the severity specified in the component standard is not less than the severity specified in 30.2 of this standard; and b) unless the pre-selection alternatives in 30.2 are used, the test report for the component states the values of t_e and t_i , as required by IEC 60695-2-11.		P
24.1DV.8	If the two conditions specified in 24.1DV.7 are not satisfied, the component shall be tested as part of the appliance.		P
24.1DV.9	Unless components have been previously tested and found to comply with the relevant standard of Annex DVA for the number of cycles specified, they shall be tested in accordance with 24.1.1 to 24.1.9.		P

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>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.</i>		P
24.1DV.10	<i>Components that have not been separately tested and found to comply with the relevant standard of Annex DVA, and components that are not marked or not used in accordance with their marking, shall be tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard.</i>		P
24.1DV.11	<i>When a standard does not exist for a component or where one exists but is not specified in Annex DVA, the appliance standard requirements apply and there are no additional tests specified.</i>		P
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14		N/A
	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		N/A
	Safety isolating transformers comply with IEC 61558-2-6		N/A
	If they have to be tested, they are tested according to Annex G		N/A
24.1.2DV	<i>DC Modification to add the following:</i>		—
	<i>A transformer relied upon to create a LIMITED POWER SOURCE shall meet the requirements of Annex DVA.</i>		N/A
24.1.3	Switches comply with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A
	If they have to be tested, they are tested according to Annex H		N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
	If the switch only operates a motor 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 comply with IEC 60730-1 with the relevant part 2.		N/A
24.1.4DV	<i>DC Modification to replace the second paragraph and all of the dashed items with the following:</i>		—

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>The number of cycles of operation declared for 6.10 and 6.11 of IEC 60730-1 shall not be less than 2000 for automatic self-resetting thermal motor protectors on motors rated greater than 1 Hp, 300 for all other automatic self-resetting thermal motor protectors, and 6000 for all other automatic controls.</i>		N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		N/A
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A
	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		N/A
24.1.5DV	Delete Clause 24.1.5		—
24.1.6DV	Delete Clause 24.1.6		—
24.1.7DV	DC Modification to replace 24.1.7 with the following:		—
	<i>If the REMOTE OPERATION of the appliance is via a telecommunication network, the relevant standard for the telecommunications network interface circuitry in the appliance is as specified in Annex DVA.</i>		N/A
24.1.8DV	DC Modification to replace 24.1.8 with the following:		—
	<i>THERMAL LINKS that do not comply with the applicable standard of Annex DVA are considered to be an INTENTIONALLY WEAK PART for the purposes of Clause 19.</i>		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		N/A
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance..... :		N/A
24.2	Appliances not fitted with:		P
	- switches or automatic controls in flexible cords		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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		N/A
	the solder has a melting point of at least 230 °C		N/A
24.2DV	<i>DC Modification to add a Note after the first dashed item:</i>		—
	<i>NOTE GFCI PROTECTIVE DEVICES are not considered switches or automatic controls. When used in a flexible cord, these are called portable GFCI's.</i>		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
24.3DV	<i>DC Modification to replace Note 1 with the following:</i>		—
	<i>NOTE 1 Full disconnection is contact separation of a pole to ensure the equivalent of BASIC INSULATION, in accordance with the switch standards of Annex DVA, between the supply mains and those parts that are intended to be disconnected.</i>		N/A
24.4DV	<i>Plugs and socket-outlets and those for EXTRA-LOW VOLTAGE circuits used as terminal devices for heating elements shall not be interchangeable with general use plugs and socket-outlets or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1.</i>		—
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly		N/A
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load		N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of Annex I		N/A
24.7DV	<i>Delete Clause 24.7.</i>		—

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Clause	Requirement + Test	Result - Remark	Verdict
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		N/A
	One or more of the following conditions are to be met:		N/A
24.8DV	<i>DC Modification to replace the first dashed item with the following :</i>		—
	- the capacitors are of class of safety protection S2 or S3 according to IEC60252-1 or are of class of safety protection according to relevant standards of Annex DVA;		N/A
	- 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
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		P
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		--
	- 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		N/A
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or		P
	- pins for insertion into socket-outlets		N/A
25.1DV.1	<i>DR Modification to add 25.1DV.1.1– 25.1DV.1.2:</i>		—
25.1DV.1.1	<i>The SUPPLY CORD of appliances incorporating a screwshell type lampholder, general use socket outlet, or single-pole switch used as the 22.2 disconnect device shall be fitted with a polarized attachment plug.</i>		N/A
25.1DV.1.2	<i>The SUPPLY CORD of appliances with a polarized attachment plug shall have its identified neutral conductor connected to the grounded (neutral) contact of the plug.</i>		N/A
25.1DV.2	<i>DR Modification to add the following note:</i>		—
	NOTE <i>A grounding-type attachment plug fulfils the requirement for a polarized attachment plug.</i>		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		P
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown		N/A
25.2DV	<i>D1 Modification to add the following:</i>		—
	<i>Multiple supply mains connections may be permitted only as specified in part 2 standards.</i>		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
25.3DV	<i>D2 Modification to replace the third dashed item with the following:</i>		—
	– A set of <i>SUPPLY LEADS</i> accommodated in a suitable compartment. Leads shall be: • a minimum 152 mm long; • no more than two standard AWG wire sizes smaller than the intended supply conductor; and • completely insulated if not every installation would require use of the lead.		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:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- type X attachment		N/A
	- type Y attachment		N/A
	- type Z attachment, if allowed in relevant part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment		N/A
25.6	Plugs fitted with only one flexible cord		P
25.7DV	DC Modification to replace 25.7 with 25.7DV.1 – 25.7DV.6:		—
25.7DV.1	SUPPLY CORDS for appliances other than CLASS III APPLIANCES shall be one of the following types:		—
	a) flexible cords and cable of the types indicated in the standards of Annex DVA; or		P
	b) cord sets and power SUPPLY CORDS of the types indicated in the standards of Annex DVA.		P
25.7DV.2	Unless otherwise specified in a part 2 standard, a heater cord is required where the temperature measured during the test of Clause 11 exceeds 121 °C on any surface that the cord is likely to touch when the appliance is used as intended.		N/A
25.7DV.3	SUPPLY CORDS for CLASS III APPLIANCES shall be adequately insulated.		N/A
25.7DV.4	Compliance is checked by inspection, by measurement, and for CLASS III APPLIANCES that contain LIVE PARTS, by the test of 25.7DV.5.		N/A
25.7DV.5	A voltage of 500 V shall be applied for 2 min between the conductor and metal foil wrapped around the insulation, the insulation being at the temperature measured during the test of Clause 11. There shall be no breakdown during this test.		N/A
25.7DV.6	An appliance having an appliance inlet for connection to the mains shall be provided with a detachable power SUPPLY CORD (cord set).		N/A
25.8DV	DR Modification to replace 25.8, including Table 11, with 25.8DV.1 – 25.8DV.2:		N/A
25.8DV.1	Ampacities of SUPPLY CORDS and attachment plugs shall not be less than the current rating of the appliance and shall be suitable for the application in accordance with national electrical installation requirements.		N/A
25.8DV.2	Compliance is checked by inspection.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
25.9	Supply cords not in contact with sharp points or edges		N/A
25.10DV	DR Modification to replace 25.10 with 25.10DV.1 – 25.10DV.3:		N/A
25.10DV.1	The earthing conductor of the SUPPLY CORD of CLASS I APPLIANCES shall have green/yellow or solid green insulation and be connected to the earthing terminal of the appliance, and for appliances not intended for permanent connection to the fixed wiring, to the earthing contact of the plug.		N/A
25.10DV.2	The colour of the neutral conductor of the SUPPLY CORD, if any, shall be identified according to the national electrical codes.		N/A
25.10DV.3	Compliance is checked by inspection.		N/A
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless		N/A
	the contact pressure is provided by spring terminals		N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure		N/A
25.13	Inlet openings so constructed as to prevent damage to the supply cord		N/A
	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		N/A
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	- separation of the conductor from its terminal		N/A
	- loosening of any cord guard		N/A
	- damage to the cord or the cord guard		N/A
	- broken strands piercing the insulation and becoming accessible		N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		N/A
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		N/A
	Pull and torque test of supply cord:		N/A
	- 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
	Cord not damaged and max. 2 mm displacement of the cord		N/A
25.16	Cord anchorages for type X attachments constructed and located so that:		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

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Clause	Requirement + Test	Result - Remark	Verdict
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless		N/A
	failure of the insulation of the cord does not make accessible metal parts live		N/A
	- for class II appliances they are of insulating material, or		N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals		N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance		N/A
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		N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances		N/A
	Tying the cord into a knot or tying the cord with string not used		N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts		N/A
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
25.22DV	DC Modification to replace the first dashed item with the following:		--
	Appliance inlets:		--

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Clause	Requirement + Test	Result - Remark	Verdict
	- live parts not accessible during insertion or removal		N/A
	Requirement not applicable to appliance inlets complying with the appliance inlet standards listed in Annex DVA.		N/A
	- connector can be inserted without difficulty		N/A
	- the appliance is not supported by the connector		N/A
	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless		N/A
	the supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:		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
	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
25.25DV	DC Modification to replace 25.25 with 25.25DV.1 – 25.25DV.2:		—
25.25DV.1	The dimensions of pins of appliances that are inserted into socket-outlets shall be compatible with the dimensions of the relevant socket-outlet. Dimensions of the pins and engagement face are to be in accordance with the dimensions of the relevant plug /socket outlet standards of Annex DVA.		P
25.25DV.2	Compliance is checked by measurement.		P
26	TERMINALS FOR EXTERNAL CONDUCTORS		N/A
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors		N/A
	Terminals only accessible after removal of a non-detachable cover, except		N/A
	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

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Clause	Requirement + Test	Result - Remark	Verdict
26.2	Appliances with type X attachment and appliances for the connection of cables to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless		N/A
	the connections are soldered		N/A
	Screws and nuts not used to fix any other component, except		N/A
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N/A
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless		N/A
	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint		N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor		N/A
	Terminals fixed so that when the clamping means is tightened or loosened:		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

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Clause	Requirement + Test	Result - Remark	Verdict
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
26.5DV	<i>Stranded conductor test, 8 mm insulation removed</i>		N/A
	No contact between live parts and accessible metal parts and,		N/A
	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only		N/A
26.6DV	<i>Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to thenational electrical code; rated current (A); nominal cross-sectional area (mm²):</i>		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		N/A
	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A
	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free		N/A
27	PROVISION FOR EARTHING		P

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Clause	Requirement + Test	Result - Remark	Verdict
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 protective 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		P
	protective extra-low voltage circuits		N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening		P
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and		P
	- do not provide earthing continuity between different parts of the appliance, and		P
	- conductors cannot be loosened without the aid of a tool		P
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
27.2DV	D1 Modification to add 27.2DV.1 – 27.2DV.2:		—
27.2DV.1	<i>If a fastener is intended to be used to secure a bonding conductor, it shall only be used for that purpose unless it is clear that it is unlikely to be removed or replaced during servicing.</i>		N/A
27.2DV.2	<i>A single binding post may be used to secure both bonding conductors and the earthing conductor, providing that the nut securing the earthing conductor is not relied on to secure the bonding conductors.</i>		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		P
	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

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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		N/A
	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		P
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
27.5DV	<i>D1 Modification to replace the 5th and 6th paragraph with 27.5DV.1.1 –27.5DV.1.4 and Table 27DV.1</i>		—
27.5DV.1.1	<i>A current derived from a source having a no-load voltage not exceeding 12 V(a.c. or d.c.) and equal at least 2,0 times the rating of the earthed branch circuit, shall be passed between the earthing terminal or earthing contact and each of the ACCESSIBLE METALPARTS in turn.</i>		N/A
27.5DV.1.2	<i>The voltage drop between the earthing terminal of the appliance or the earthing contact of the appliance inlet and the ACCESSIBLE METAL PART shall be measured and shall not exceed 4 volts.</i>		P

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Clause	Requirement + Test	Result - Remark	Verdict
27.5DV.1.3	The resistance of the PROTECTIVE EARTHING CONDUCTOR is not included in the measurement. However, if the PROTECTIVE EARTHING CONDUCTOR is supplied with the equipment, it may be included in the test circuit, but the measurement of the voltage drop shall be made only from the main protective earthing terminal to the part required to be earthed.		N/A
27.5DV.1.4	The resistance calculated from the current of this voltage drop shall not exceed 0,1 ohm. The test duration is specified in Table 27DV.1.		N/A
27.5DV.2	D1 Modification: Delete the Note at the end of 27.5.		—
27.6DV	D2 Modification to replace 27.6 with 27.6DV.1 – 27.6DV.2:		—
27.6DV.1	The printed conductors of printed circuit boards shall not be used to provide earthing continuity in HAND-HELD APPLIANCES. They may be used to provide earthing continuity in other appliances provided that they comply with 27.5 and 27.7DV.1.4 to 27.7DV.1.7.		N/A
27.6DV.2	Compliance is checked by inspection and by the relevant tests.		N/A
27.7DV	D1 Addition of 27.7DV.1 – 27.7DV.1.8:		—
27.7DV.1	Size of protective conductors		N/A
27.7DV.1.1	PROTECTIVE EARTHING CONDUCTORS shall at least be of the same size as supply conductors and shall comply with the minimum conductor sizes of column A of Table 27DV.2.		N/A
27.7DV.1.2	Compliance is checked by inspection and measurement.		N/A
27.7DV.1.3	PROTECTIVE BONDING CONDUCTORS shall comply with the following:		N/A
	a) Shall pass the resistance test of 27.5; and		N/A
	b) Shall be no smaller than the minimum conductor sizes in column B of Table 27DV.2; or for components only, be no smaller than the conductors that supply power to the component.		N/A
27.7DV.1.4	If the PROTECTIVE BONDING CONDUCTOR is smaller than the conductor supplying power to the component, or smaller than the conductor size in column B of Table 27DV.2, or a printed conductor on a printed circuit board, the protective bonding path shall demonstrate the ability to withstand a limited short circuit.		N/A
27.7DV.1.5 - 27.7DV.1.7	Compliance is determined by conducting the limited short circuit test specified in 27.7DV.1.6 and 27.7DV.1.7.		N/A
27.7DV.1.8	The current rating of the overcurrent PROTECTIVE DEVICE shall be the smallest of the following:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a) The current rating of the attachment plug but not less than 20 A;		N/A
	b) The rating of an overcurrent PROTECTIVE DEVICE which is specified by the manufacturer for installation in the field to protect the equipment; or		N/A
	c) The rating of an overcurrent PROTECTIVE DEVICE in the equipment that protects the circuit or part required to be earthed.		N/A
28	SCREWS AND CONNECTIONS		P
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		P
	Screws not of soft metal liable to creep, such as zinc or aluminium		P
	Diameter of screws of insulating material min. 3 mm		N/A
	Screws of insulating material not used for any electrical 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..... :		P
28.2DV	D1 Modification to replace 28.2 with 28.2DV.1 – 28.2DV.2:		—
28.2DV.1	Electrical connections and connections providing earthing continuity shall be constructed so that contact pressure is not transmitted through non-ceramic insulating material that is liable to shrink or to distort, unless there is sufficient resiliency in the metallic parts to compensate for any possible shrinkage or distortion of the insulating material. This requirement does not apply to electrical connections in circuits supplied by a LIMITED POWER SOURCE.		P
28.2DV.2	Compliance is checked by inspection.		N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		N/A
	- in normal use,		N/A
	- during user maintenance,		N/A
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		N/A
	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		N/A
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or 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
28.5DV	<i>D1 Addition of 28.5DV.1 – 28.5DV.4 and Table 28DV.1:</i>		—
28.5DV.1	<i>Pillar, stud, or screw type protective earthing and protective bonding terminal shall comply with the minimum size requirements of Table 28DV.1.</i>		N/A
28.5DV.2	<i>Protective bonding terminals which do not comply with Table 28DV.1 are considered acceptable if they meet the requirements of 27.7DV.1.5.</i>		N/A
28.5DV.3	<i>The main protective earthing terminal for permanently connected equipment shall be provided with factory installed studs, screws, or bolts, together with the necessary hardware, if requiring a PROTECTIVE EARTHING CONDUCTOR larger than 10 AWG.</i>		N/A
28.5DV.4	<i>Compliance is checked by inspection and measurement.</i>		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		P
	Clearances, creepage distances and solid insulation withstand electrical stress		P

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Clause	Requirement + Test	Result - Remark	Verdict
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies :		N/A
	The microenvironment is pollution degree 1 under type 1 protection		N/A
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3		N/A
	These values apply to functional, basic, supplementary and reinforced insulation :		N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless :	(see test record)	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, or		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		P
	A force of 30 N is applied to accessible surfaces		P
29.1DV	Revise Table 16 as follows:		—
	a) Replace the fourth line with the following: "1500, 1,2 ^d , e". b) Replace the sixth line with the following: "4 000, 3,5". c) Add footnote e: "e The CLEARANCES at terminals for the connection of field wiring are increased to 6,4 mm for RATED IMPULSE VOLTAGE of 1 500 V and 9,5 mm for RATED IMPULSE VOLTAGES of 2 500 and 4 000 V."		P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P

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Clause	Requirement + Test	Result - Remark	Verdict
	The values of table 16 or the impulse voltage test of clause 14 are applicable..... :	(see test record)	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
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see test record)	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 test record)	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 test record)	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		P
	the distances can be affected by wear, distortion, movement of the parts or during assembly		P
	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		N/A
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:		N/A
	- table 16 based on the rated impulse voltage :		N/A
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A

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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 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation		N/A
	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation		N/A
	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage		N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree..... :	(see test record)	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		P
	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
29.2.1	Creepage distances of basic insulation not less than specified in table 17..... :	(see test record)	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
29.2.1DV	Table 17DV D1 Modification to add superscript "b" to title of Table 17 and add the following footnote:		—
	"b The CREEPAGE DISTANCES at terminals for the connection of field wiring are increased to 9,5mm for WORKING VOLTAGES ≤ 250 volts, and 12,7 mm for voltages >250 and ≤ 600 volts."		N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see test record)	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 test record)	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 test record)	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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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
	- 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		P
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
30.1DV	D2 Modification to add 30.1DV.1 – 30.1DV.2:		—

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Clause	Requirement + Test	Result - Remark	Verdict
30.1DV.1	As an alternate, the minimum temperature for the ball pressure test for external parts may be 65°C + 2°C if the part complies with the Mould Stress Relief Test of IEC60695-10-3.		N/A
30.1DV.2	Electrical components complying with the standards of Annex DVA, if specified and used within their ratings, are considered to fulfil the requirements of 30.1.		P
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		P
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		P
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		P
	Compliance checked by the test of 30.2.1, and in addition:		P
	- 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		P
30.2DV	D2 Modification to add the following note:		—
	NOTE 3 Additional flammability requirements (such as 5VA or 5VB rating per IEC 60695-11-20 for external enclosures of STATIONARY APPLIANCES) are specified in the part 2 standard.		N/A
30.2.2DV	D2 Modification to add the following to the end of 30.2.2:		—
	The glow-wire test is also not carried out on parts of material classified at least V-1 according to IEC 60695-11-10, or at least VTM-1 according to ISO 9773, provided that the test sample was no thicker than the relevant part of the appliance.		N/A
30.2.3.1DV	D2 Modification to replace the third paragraph with the following:		—
	However, the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C is not carried out on parts of material classified at least V-1 according to IEC 60695-11-10, or at least VTM-1 according to ISO 9773, or as having a glow-wire flammability index of at least 850°C according to IEC 60695-2-12		P

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Clause	Requirement + Test	Result - Remark	Verdict
30.2.3.2DV.1	D2 Modification to replace the fourth paragraph with the following:		—
	However, the glow-wire test with a test severity of 750°C or 650°C, as appropriate, is not carried out on parts of material classified at least V-1 according to IEC 60695-11-10, or at least VTM-1 according to ISO 9773, or fulfilling both or either of the following classifications:		P
30.2.3.2DV.2	D2 Replace second dashed item of last paragraph with the following:		—
	– parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10 or at least VTM-1 according to ISO 9773, provided that the test sample used for the classification was no thicker than the relevant part of the appliance; or		N/A
30.3DV	D2 Modification to add the following note to Clause 30:		—
	NOTE IEC and ISO references to flammability designations are equivalent to the same designations in CSA C22.2 No. 0.17 and UL 94.		N/A
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		—
A.1	Earth continuity test		N/A
A.2	Electric strength test		N/A
A.3	Functional test		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:		—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
3.1.9	Appliance operated under the following conditions:		N/A
	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2		N/A
	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		N/A
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		N/A
	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed		N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable		N/A
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 (V) 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	Additional symbols		N/A
7.12	The instructions give information regarding charging		N/A
	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information		N/A
	Details about how to remove batteries containing materials hazardous to the environment given		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		—
	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
	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	(see test record)	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)	(see test record)	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.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
19.13	The battery does not rupture or ignite		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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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		—
	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		N/A
	Test conditions as specified		N/A
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		N/A
F	ANNEX F (NORMATIVE) CAPACITORS		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		—
	The following modifications to this standard are applicable for safety isolating transformers:		N/A
7	Marking and instructions		N/A
7.1	Transformers for specific use marked with:		N/A
	-name, trademark or identification mark of the manufacturer or responsible vendor.....		N/A
	-model or type reference		N/A
17	Overload protection of transformers and associated circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1		N/A
22	Construction		N/A
	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable		N/A
29	Clearances, creepage distances and solid insulation		N/A
29.1, 29.2, 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:		N/A
	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance		N/A
	Before being tested, switches are operated 20 times without load		N/A
8	Marking and documentation		N/A
	Switches are not required to be marked		N/A
	However, 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		N/A
	The tests may be carried out on a separate sample		N/A
15	Insulation resistance and dielectric strength		N/A
15.1	Not applicable		N/A
15.2	Not applicable		N/A
15.3	Applicable for full disconnection and micro-disconnection		N/A
17	Endurance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
	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:		N/A
8	Protection against access to live parts		N/A
8.1	Metal parts of the motor are considered to be bare live parts		N/A
11	Heating		N/A
11.3	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		N/A
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		N/A
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:		N/A
	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit		N/A
	- short circuit of each diode of the rectifier		N/A
	- open circuit of the supply to the motor		N/A
	- open circuit of any parallel resistor, the motor being in operation		N/A
	Only one fault simulated at a time, the tests carried out consecutively		N/A
22	Construction		N/A
22.1.101	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		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		P
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		P
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		P
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		P
O	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30		P

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Clause	Requirement + Test	Result - Remark	Verdict
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES		N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS		P
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		N/A
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:		N/A
	– 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
	– 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

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Clause	Requirement + Test	Result - Remark	Verdict
7.6	Additional symbols		N/A
7.12	The instructions contain the following, as applicable:		N/A
	– 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		N/A
	– 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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
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
DVA	Annex DVA (normative) North American additional requirements		N/A
DVB	Annex DVB Annex DVB D2 Reserved for future use		N/A
DVC	Annex DVC (normative) Mechanical requirements for direct plug in appliances		N/A
DVD	Annex DVD (normative) Adequacy of adhesive bonding properties		N/A

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Critical components information:

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1)
Plug	DONGGUAN TONGJUN ELECTRONICS TECHNOLOGY CO LTD	TJ168A	250V 10A	UL 817	UL E358711
Power cord	DONGGUAN TONGJUN ELECTRONICS TECHNOLOGY CO LTD	SPT-1	TUV H05VV-F 3G1.0mm ² Ningbo Qiaopu Electrlo CO .. LtdBlack, with an exposed length of 1.5 meters	UL 62	UL E301011
Overload Protector	Wenzhou Mingzhi Electric Appliance Co., Ltd.	M1,M2,M3	AC125V/125V 25A/32DV	UL 1077 UL 60947-1	UL E155159
Internal wire	JIANGYIN HAOCHENG ELECTRIC APPLIANCE WIRE & CABLE MFG CO LTD	10362	Rated 600V, 250°C	UL 758	ULE227587
Power switch	SHANGHAI YONGXING ELECTRONIC SWITCH CO LTD	R5	16A,250V,50-60Hz,105°C	UL 61058	UL E239917
PCB	JiangXi Yutong Electronic Technology Co.,Ltd	YT-3	V-0,130°C	UL 94	UL E531286
Plastic enclosure	SABIC INNOVATIVE PLASTICS US L L C	EXL9335(X)(f 1)	PC material, Rated V-0, HWI=2, HAI=1, RTI(125,110,120),CTI=3, color: All colors except Natural, Min.thickness:0.6 mm	UL 94	UL E121562
Heating	Yancheng City Ruiyide Casting Co., Ltd.	/	120V 580W	UL 60335-1	Tested with appliance
Relay	LiYang Qlrelay Electronic Co.,Ltd	BRD-SS-112LMH	15A, 250VAC	UL 508	UL E513256
Varistor	DONGGUAN CITY DERSONIC ELECTRONIC CO LTD	10D471K	300VAC, 125°C	UL 1449	UL E485399

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Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1)
Capacitors	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	Min. rated 275V ac, 0.1uF, Lower Temp(°C): -40, Upper Temp (°C): +110. Soldered on PWB.	UL 60384	UL E208107

UL 60335-1**Product photos:**

General view (Model: AMB005460)



General view (Model: AMB005460)

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General view (Model: AMB005460)



General view (Model: AMB005460)

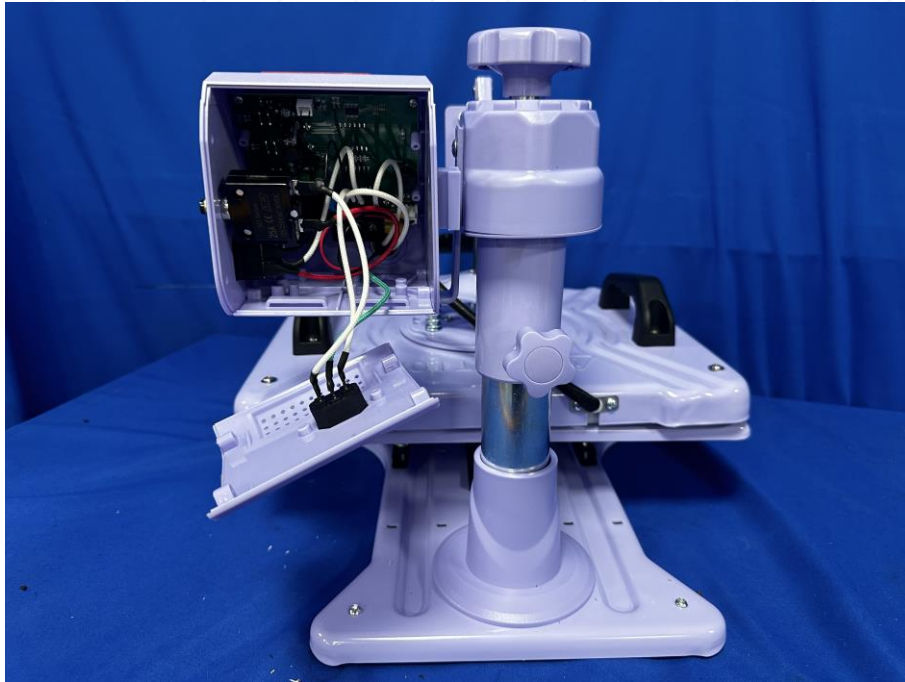
UL 60335-1


General view (Model: AMB005460)

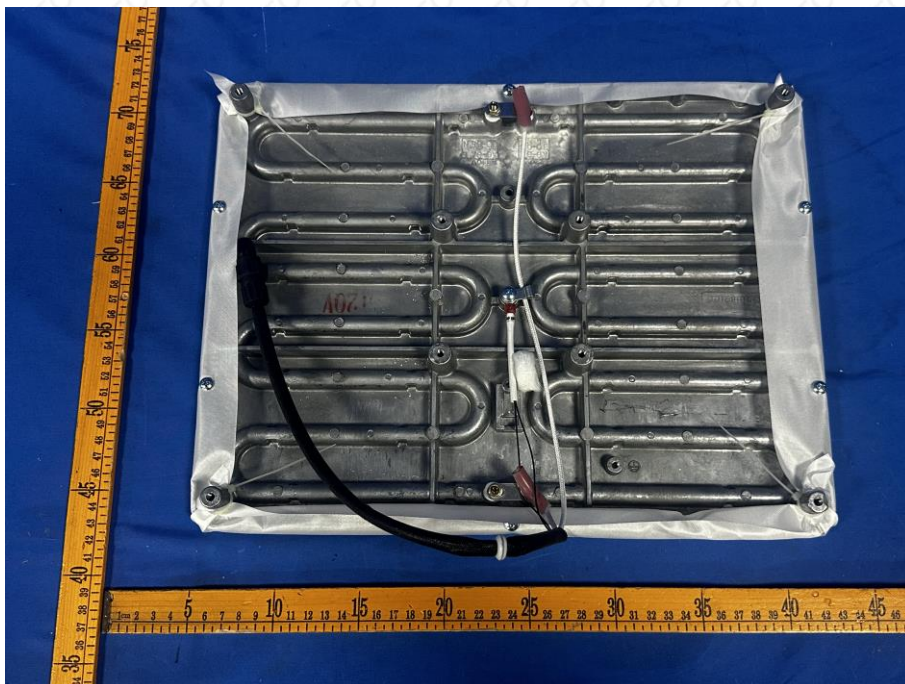


General view (Model: AMB005460)

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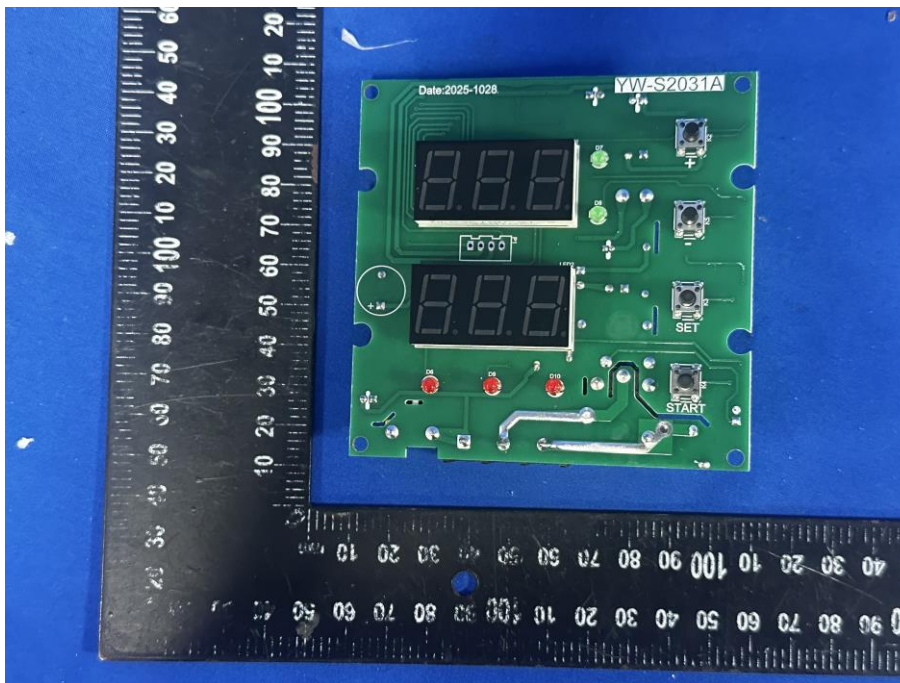


Internal view (Model: AMB005460)

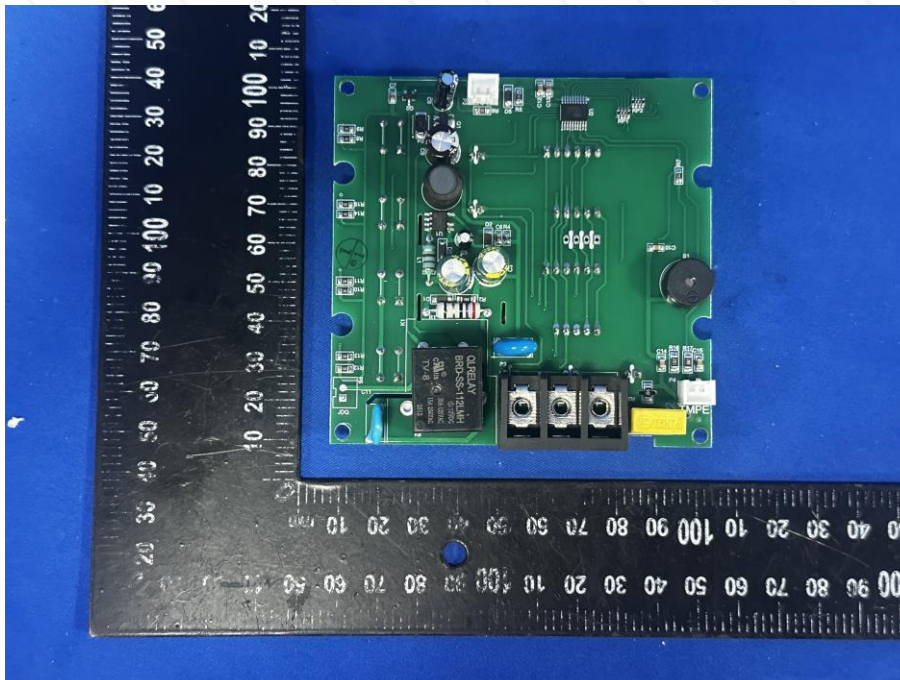


Internal view (Model: AMB005460)

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PCB view (Model: AMB005460)



PCB view (Model: AMB005460)

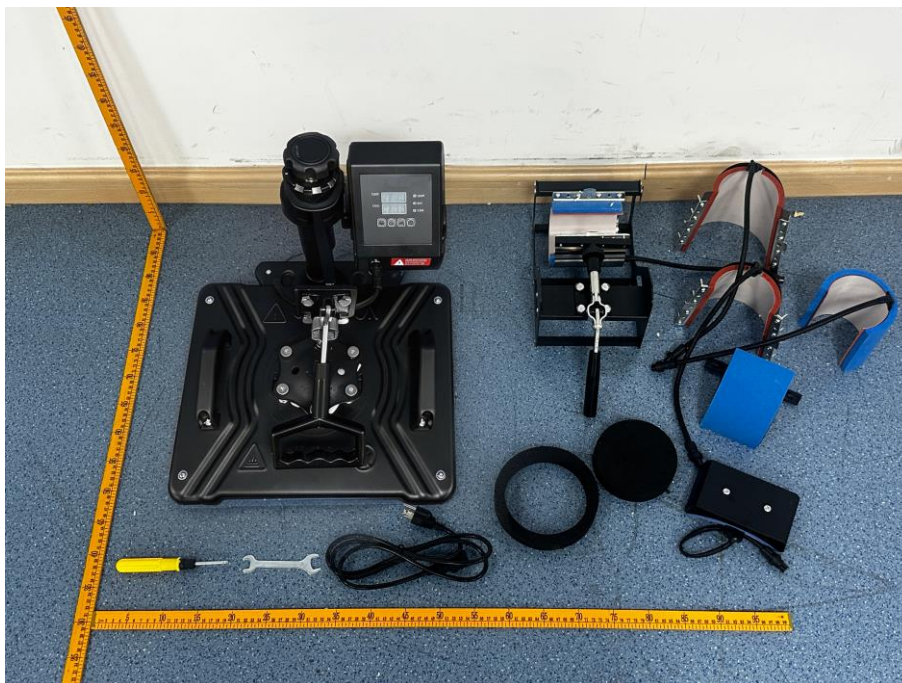
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General view (Model: AMB005460)



General view (Model: AMB005460)

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General view (Model: AMB005460)

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