

TEST REPORT

Report No.: DL-20230908010S

| Product Name: | LIFT CHAIR/LIFT MASSAGE CHAIR |
|------------------|--|
| Brand Name: | N/A |
| Model No.: | LRE-LC-27 LRE-LC-65, LRE-LC-71, LRE-LC-91, LRE-LC-93, LRE-LC-58, LRE-LC-13, LRE-LC-63, LRE-LC-102, LRE-LC-101, LRE-LC-33, LRE-LC-106, LRE-LC-107, LRE-LC-XXX SERIES |
| Prepared For: | ANHUI LRE FURNITURE CO., LTD |
| Address: | BUILDING 5 SHUANGCHUANG ZONE, SICHENG TOWN, SIXIAN, SUZHOU CITY, ANHUI PROVINCE, CHINA |
| Prepared By: | Shenzhen DL Testing Technology Co., Ltd. |
| Address: | 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China |
| Date of Receipt: | Aug. 31, 2023 |
| Test Date: | Aug. 31, 2023 - Sep. 08, 2023 |
| Date of Report: | Sep. 08, 2023 |
| Report No.: | DL-20230908010S |

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TEST REPORT EN 60335-1

Safety of household and similar electrical appliances

Report Number...... DL-20230908010S

Tested by (name) : Jimi Wu

Reviewed by (name) Nick Cheng

Approved by (name) Jade Yang

Total number of pages....::

Date of issue.....: Sep. 08, 2023

Testing Laboratory...... Shenzhen DL Testing Technology Co., Ltd.

93 pages

Address 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong

Industrial Zone, Baolong Street, Longgang District, Shenzhen,

Report No.: DL-20230908010S

Guangdong, China

Applicant's Name ANHUI LRE FURNITURE CO., LTD

Address BUILDING 5 SHUANGCHUANG ZONE, SICHENG TOWN,

SIXIAN, SUZHOU CITY, ANHUI PROVINCE, CHINA

Manufacturer ANHUI LRE FURNITURE CO., LTD

Address BUILDING 5 SHUANGCHUANG ZONE, SICHENG TOWN,

SIXIAN, SUZHOU CITY, ANHUI PROVINCE, CHINA

Test specification

Standard EN 60335-1:2012+A11:2014+A13:2017+A1:2019+ A2:2019

+A14:2019+A15:2021

EN 62233:2008

Test procedure Test report

Non-standard test method: N/A

Test Report Form No. IEC60335_1X

Test Report Form(s) Originator Nemko AS

Master TRF.....: Dated 2016-10

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Test item description: LIFT CHAIR/LIFT MASSAGE CHAIR

Brand Name N/A

Model/Type reference....: LRE-LC-27 (See pages 1 for other models)

Ratings...... Input: 29V===1.8A

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List of Attachments (including a total number of pages in each attachment):

Attachment No. 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Attachment No. 2: Photo-documentation

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

EN 60335-1:2012+A11:2014+A13:2017+A1:2019+

A2:2019+A14:2019+A15:2021

EN 62233:2008

Testing location:

101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Report No.: DL-20230908010S

Summary of compliance with National Differences:

Nil.

Copy of marking plate:

The artwork below may be only a draft.

LIFT CHAIR/LIFT MASSAGE CHAIR

Model: LRE-LC-27 Input: 29V===1.8A



ANHUI LRE FURNITURE CO., LTD

Importer: XXXXXX Address: XXXXXX Made in China

- The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.

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| Test item particulars | |
|--|--|
| Classification of installation and use | Class III appliance |
| Supply Connection | by external power Charging |
| Possible test case verdicts: | |
| - test case does not apply to the test object | N/A O O |
| - test object does meet the requirement: | P (Pass) |
| - test object does not meet the requirement: | F (Fail) |
| Testing | |
| Date of receipt of test item | Aug. 31, 2023 |
| Date (s) of performance of tests | Aug. 31, 2023 - Sep. 08, 2023 |
| The test results presented in this report relate only to the obtaining the test results presented in this report relate only to the obtaining the test shall not be reproduced, except in full, without the "(See Enclosure #)" refers to additional information append "(See appended table)" refers to a table appended to the report of the test shall be appended to the test shall be appended to the report of the test shall be appended to | e written approval of the Issuing testing laboratory. ded to the report. port. |
| Name and address of factory (ies): | ANHUI LRE FURNITURE CO., LTD |
| Dr. Co. Tr. Dr. Cor. Dr. | BUILDING 5 SHUANGCHUANG ZONE, SICHENG |
| it Oriceit Oriceit | TOWN, SIXIAN, SUZHOU CITY, ANHUI PROVINCE, CHINA |

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| Clause | Requirement | Remark | Result |
|---------|--|--|---------|
| Clause | requirement | Temark | IXesuit |
| 5 | GENERAL CONDITIONS FOR THE TESTS | / x \/ /V | P |
| Olico c | Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc. | 0 50 × 0 | Р |
| 6 | CLASSIFICATION | | P |
| 5.1 | Protection against electric shock: Class 0, 0I, I, II, III | class III | P |
| Cott. | For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part. | Dr. Cay Dr. | P P |
| | Protection against harmful ingress of water | IPX0 | N/A |
| 7 | MARKING AND INSTRUCTIONS | | P |
| 7.1 | Rated voltage or voltage range (V) | See Copy of marking plate | P |
| X | Symbol for nature of supply, or | See Copy of marking plate | Р |
| - J | Rated frequency (Hz) | Cox O Co | N/A |
| Coc | Rated power input (W), or: | | N/A |
| 0 | Rated current (A) | See Copy of marking plate | P |
| OL | Manufacturer's or responsible vendor's name, trademark or identification mark | See page 2 | ÓP |
| | Model or type reference | See page 1 | P |
| . X | Symbol IEC 60417-5172, for class II appliances | Cor. The same of t | N/A |
| ,Co , | IP number, other than IPX0 | IPX0 | N/A |
| Ç. | Symbol IEC 60417-5180, for class III appliances, unless | OV. COL | N/A |
| 0/ | the appliance is operated by batteries only, or | at at | O P |
| Ø, | for appliances powered by rechargeable batteries recharged in the appliance | x OV Cet | N/A |
| -jeř | Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth | Co. Or Co. | N/A |
| Or. Co. | 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 | Or Cer O | N/A |
| 7.2 | Warning for stationary appliances for multiple supply | is of con | N/A |
| X. | Warning placed in vicinity of terminal cover | x 0\oh | N/A |
| 7.3 | Range of rated values marked with the lower and upper limits separated by a hyphen | Liceria di | N/A |
| Ce | Different rated values marked with the values separated by an oblique stroke | Or, Care Or | N/A |

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| Clause | Reguirement | Remark | Result |
|----------|---|-------------------------------|---------|
| | roganoment | Troman | Troodic |
| 7.4 | Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible. | Orcept Orce | N/A |
| × 0/. | 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. | sk Or Cau | 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 | Dicer Orice | N/A |
| OL. Co | the power input is related to the arithmetic mean value of the rated voltage range | O' Care | N/A |
| Ó | Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear | x Or Cox | N/A |
| 7.6 | Correct symbols use | | P |
| <i>y</i> | Symbol for nature of supply placed next to rated voltage | See copy of marking plate | P |
| Or. Co. | Symbol for class II appliances placed unlikely to be confused with other marking | See copy of marking plate | N/A |
| OL | Units of physical quantities and their symbols according to international standardized system | × Dr. cer | P |
| 7.7 | Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless | Cor Or Cor | N/A |
| , O | correct mode of connection is obvious | DY COL | N/A |
| 7.8 | Except for type Z attachment, terminals for connection to follows: | the supply mains indicated as | N/A |
| Q) | - marking of terminals exclusively for the neutral conductor (letter N) | × St. cet | N/A |
| - got | - marking of protective earthing terminals (symbol IEC 60417-5019) | | N/A |
| Cer | - marking of functional earthing terminals (symbol IEC 60417-5018) | Dr. Cetr Dr | N/A |
| | - marking not placed on removable parts | Or Car | N/A |
| 7.9 | Marking or placing of switches which may cause a hazard | of Original Colt | N/A |
| 7.10 | Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means | Cox Dicox | N/A |
| · .0 | This applies also to switches which are part of a control | 1 20° × 0° | N/A |
| OV | If figures are used, the off position indicated by the figure 0 | 0, 700, | N/A |

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| | EN 60335-1 | | T |
|------------------|---|---------------------------|--------|
| Clause | Requirement | Remark | Result |
| Cert | 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 | \$ 5° x \$ | N/A |
| 7.12 | Instructions for safe use provided | O, Co, | P |
| | Details concerning precautions during user maintenance | Please see product manual | Р |
| ~ | The instructions state that: | x Or con | Р |
| Cox | -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 | J. Co. Cor. D. | er P |
| \Diamond | -children being supervised not to play with the appliance | Oli cort | PC |
| Q ^X | 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 | Cett Di Cett | N/A |
| ge th | Instructions for class III appliances state that it must only be supplied at SELV, unless | 2,50° 3. | N/A |
| ON, C | it is a battery-operated appliance, the battery being charged outside the appliance | Or Car | N/A |
| . 0 | For appliances for altitudes exceeding 2000 m, the maximum altitude is stated | k Or Car | N/A |
| Cert | The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only | Cer of Cer | N/A |
| ر آوے 12.1. | Sufficient details for installation supplied | | N/A |
| 01, | For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated | D. Cert | N/A |
| ,e ^{it} | If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance | cet of cet | 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 | or Oricer | N/A |
| 7.12.3 | Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected | Cot of cot | N/A |
| .12.4 | Instructions for built-in appliances: | , J.O., J. | N/A |
| OV. | - dimensions of space | A. 500, X | N/A |
| | - dimensions and position of supporting and fixing | O. Co. | N/A |

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| Clause | Requirement | Remark | Result |
|--------|---|------------------------|--------|
| Clause | Requirement | Remark | Result |
| cert | - minimum distances between parts and surrounding structure | | N/A |
| Or or | - minimum dimensions of ventilating openings and arrangement | Orice. Cely | N/A |
| χ. | - connection to supply mains and interconnection of separate components | st Or Cate | N/A |
| art. | - allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless | Cay Dr. Cay | N/A |
| 0 | a switch complying with 24.3 | | N/A |
| 7.12.5 | Replacement cord instructions, type X attachment with a specially prepared cord | ON CONT | N/A |
| | Replacement cord instructions, type Y attachment | · O Co | N/A |
| | Replacement cord instructions, type Z attachment | X OV CON | 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 | Cor Cor Or Co | N/A |
| 7.12.7 | Instructions for fixed appliances stating how the appliance is to be fixed | OV COK | N/A |
| 7.12.8 | Instructions for appliances connected to the water mains: | of O. Co. | N/A |
| | -max. inlet water pressure (Pa) | The Or Cold | N/A |
| COL | -min. inlet water pressure, if necessary (Pa) | 50° x 0° (| o N/A |
| V, C. | Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets | O'CO'X | N/A |
| 7.12.9 | Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance | - ex Dr. Cey | B. |
| -jest | These instructions may be supplied with the appliance separately from any functional use booklet | Cett Or Ce | P |
| 01,00 | They may follow the description of the appliance that identifies parts, or follow the drawings/sketches | Or Cell | Р |
| O'L' | In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD | A Original Contraction | N/A |
| ceit | In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD | Cox Original | N/A |
| 7.13 | Instructions and other texts in an official language | In English | Р |
| 7.14 | Marking clearly legible and durable, rubbing test as specified | Or Co. | O P |

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| . 0 | EN 60335-1 | | Ο, |
|------------------|--|--|---------------------------------------|
| Clause | Requirement | Remark | Result |
| Cert. | Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified: | | N/A |
| OF | Uppercase letter of the text explaining the signal word not smaller than 1,6 mm | Or Cert | N/A |
| i. | Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless | at Direct | N/A |
| art. | contrasting colours are used | Co. | .∼N/A |
| | Markings checked by inspection, measurement and rubbing test as specified | Y Con it of | Px |
| 7.15 | Markings on a main part | , Co | OV P |
| Ø, | Marking clearly discernible from the outside, if necessary after removal of a cover | | В |
| -,e ^t | For portable appliances, cover can be removed or opened without a tool | | N/A |
| Or, Coy | For stationary appliances, name, trademark or identification mark and model or type reference visible after installation | Original State of | N/A |
| ×. | For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions | St. St. Cott | N/A |
| Cox. | 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 | Cer X Dr. Ce | P |
| OV. | Symbol IEC 60417-5018 is placed next to the symbol IEC 60417-5172 or IEC 60417-5180 | O' GO | N/A |
| 7.16 | Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link | at Dir cot | N/A |
| 3 | PROTECTION AGAINST ACCESS TO LIVE PARTS | | Р |
| 3.1 × | Adequate protection against accidental contact with live parts | Class III appliance | Ň/A |
| 3.1.1 | Requirement applies for all positions, detachable parts removed | O' Get , | N/A |
| × * | Lamps behind a detachable cover not removed, if conditions met | K O' CON | N/A |
| cer | Insertion or removal of lamps, protection against contact with live parts of the lamp cap | Copy of Dice | N/A |
| Cer | Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts | Original Origina Origina Origina Origina Origina Origina Origina Origina Or | N/A |
| O _V | Use of test probe B of IEC 61032 through openings, with a force of 20 N: no contact with live parts | Orr Cert | N/A |
| (1) | | / | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |

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| . 0 | EN 60335-1 | N. C. | |
|--|--|--|--------------------|
| Clause | Requirement | Remark | Result |
| 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 | Original Origina Origina Origina Origina Origina Origina Origina Origina Or | N/A |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts | ek Originalis | 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. | Y Cert O'CE | N/A |
| OV. Ce | For a single switching action obtained by a switching device, requirements as specified | ON COST | N/A |
| \(\) | For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug | - of Cor | N/A |
| 3.1.4 | Accessible part not considered live if: | , | |
| Cert | - safety extra-low a.c. voltage: peak value not exceeding 42,4 V | OF CONT. | N/A |
| Ø , | - safety extra-low d.c. voltage: not exceeding 42,4 V | | P, |
| 0 | - or separated from live parts by protective impedance | | N/A |
| , | If protective impedance: d.c. current not exceeding 2 mA, and | s di cer | N/A |
| - 0 ¹ | a.c. peak value not exceeding 0,7 mA | CO X OV | o [∞] N/A |
| | - for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 μF | | N/A |
| Q _V | - for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC | O'. Cot | N/A |
| × | - for peak values over 15 kV, the energy in the discharge not exceeding 350 mJ | COK OV COK | N/A |
| 3.1.5 | Live parts protected at least by basic insulation before inst | allation or assembly: | N/A |
| Cer | - built-in appliances | OL'S COTT | N/A |
| 0 | - fixed appliances | 1 0 0 0 0 | N/A |
| OV | - appliances delivered in separate units | V 200 x | N/A |
| 3.2 | 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 | Court Dr. Cort | N/A |
| , ce | Only possible to touch parts separated from live parts by double or reinforced insulation | OV. CON CONT. | N/A |
| 9 | STARTING OF MOTOR-OPERATED APPLIANCES | | N/A |

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| 0 | EN 60335-1 | | |
|--------------------|--|--------------------------|--------|
| Clause | Requirement | Remark | Result |
| -0^ | V OV OV OV | C x O' ce | C |
| | Requirements and tests are specified in part 2 when necessary | The street of the | N/A |
| 10 | POWER INPUT AND CURRENT | | Pos |
| 10.1 | Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 | (see appended table) | N/A |
| , ce ^{tt} | If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period. | Aricest Original Control | N/A |
| | Otherwise the power input is the arithmetic mean value | Co. | N/A |
| ge ^{it} | Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless | Cett of Cett | N/A |
| Cert | the rated power input is related to the arithmetic mean value | Orice Car | N/A |
| 10.2 | Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2 | (see appended table) | PO |
| ,co ^k | If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period. | Cert Oricett | N/A |
| Q, | Otherwise the current is the arithmetic mean value. | OV. at | N/A |
| d' | Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless | Carr Orio | N/A |
| - Coit | the rated current is related to the arithmetic mean value of the range | N. Con A. Con | N/A |
| 11 | HEATING | | Pot |
| 11.1 | No excessive temperatures in normal use | Comply with requirements | P |
| 1.2 | The appliance is held, placed or fixed in position as described | of Or Cop | P |
| 1.3 | Temperature rises, other than of windings, determined by thermocouples | By thermocouples method | P |
| , cer | Temperature rises of windings determined by resistance method, unless | OF SERVICE OF | N/A |
| 0, | the windings are non-uniform or it is difficult to make the necessary connections | OV Cert | N/A |

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| | EN 60335-1 | - X | ~ |
|----------|--|----------------------|--------|
| Clause | Requirement | Remark | Result |
| 11.4 | Heating appliances operated under normal operation at 1,15 times rated power input (W) | Sicely of the | N/A |
| 11.5 | Motor-operated appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V) | Dr. Cok d | Pos |
| 11.6 | Combined appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V) | Ser Or Co | N/A |
| 11.7 | Operation duration corresponding to the most unfavourable conditions of normal use | Dr. Cour & Dr. | P |
| 11.8 | Temperature rises monitored continuously and not exceeding the values in table 3 | (see appended table) | OL P |
| Ó | If the temperature rise of a motor winding exceeds the value of table 3, or | x Or Get | N/A |
| - ex | if there is doubt with regard to classification of insulation, | Co x O co | N/A |
| O ON | tests of annex C are carried out | Con Ni | N/A |
| 000 | Sealing compound does not flow out | Dr. Col. | Р |
| Q, \ | Protective devices do not operate, except | OL COL | N/A |
| 0, | components in protective electronic circuits tested for the number of cycles specified in 24.1.4 | it or cott | N/A |
| 13 | LEAKAGE CURRENT AND ELECTRIC STRENGTH AT TEMPERATURE | OPERATING | P |
| 13.1 | Leakage current not excessive and electric strength adequate | Dr. Colc. | P |
| OV | Heating appliances operated at 1,15 times the rated power input (W) | O' CO | N/A |
| , | Motor-operated appliances and combined appliances supplied at 1,06 times the rated voltage (V) | et Oli cet | Р |
| cert are | Protective impedance and radio interference filters disconnected before carrying out the tests | | N/A |
| 13.2 | The leakage current is measured by means of the circuit described in figure 4 of IEC 60990:1999 | D. Col. | P |
| × 01/ | For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter | or Original R | N/A |
| | Leakage current measurements | (see appended table) | P |
| 13.3 | The appliance is disconnected from the supply | NO OF O | P |
| × -0 | Electric strength tests according to table 4 | (see appended table) | P |
| AV. | No breakdown during the tests | No breakdown | OV P |
| 14 | TRANSIENT OVERVOLTAGES | | N/A |

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| Clause | Requirement | Remark | Result |
|------------------|---|--|--------|
| Jiause | Requirement | Kemark | Result |
| ge ^x | Appliances withstand the transient over-voltages to which they may be subjected | | N/A |
| Or. | Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 | Oricok C | N/A |
| κ (| No flashover during the test, unless | , C | N/A |
| | of functional insulation if the appliance complies with clause 19 with the clearance short-circuited | Cer O' Cer | N/A |
| 5 | MOISTURE RESISTANCE | | |
| 5.1 | Enclosure provides the degree of moisture protection according to classification of the appliance | IPX0 | N/A |
| × 0 | Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3 | Cay Or Cay | N/A |
| Ceir | No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29 | Original Origina Origina Origina Origina Origina Origina Origina Origina Or | N/A |
| 5.1.1 | Appliances, other than IPX0, subjected to tests as specified in IEC 60529 | IPX0 | N/A |
| · · | Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances | or of con | N/A |
| 5.1.2 | Hand-held appliance turned continuously through the most unfavourable positions during the test | Y'C' GOT O' | o N/A |
| Co | Built-in appliances installed according to the instructions | OV. OV. | N/A |
| Or al | Appliances placed or used on the floor or table placed on a horizontal unperforated support | OV. Car. | N/A |
| o ^č . | Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board | CSY OF CSY | N/A |
| Or Ceit | For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube | Orice X Or | N/A |
| QL. | For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and | The property of the state of th | N/A |
| Cett | for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube | Cet Dice | N/A |
| Or. Co. | Wall-mounted appliances, take into account the distance to the floor stated in the instructions | Q | N/A |

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| Clause | Requirement | Remark | Result |
|----------|---|--|---------|
| Clause | requirement | Remark | rtesuit |
| Or Colt | Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and | Original Origina Original Origina Origina Origina Origina Original | N/A |
| OF | for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min | x Dio cet | N/A |
| , X | Appliances with type X attachment fitted with a flexible cord as described | Cert OV Cert | N/A |
| , Co 6 | Detachable parts subjected to the relevant treatment with the main part | N. Cost. X OV | N/A |
| Ol. | However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed | Or Cor | N/A |
| 15.2 | Spillage of liquid does not affect the electrical insulation | x O' con | N/A |
| Cert | Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent | CONTRACTOR OF CO | N/A |
| OV. Co. | Appliances with type X attachment fitted with a flexible cord as described | O' COR X O | N/A |
| OLIC | Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable | O, Co. | N/A |
| X. | Detachable parts are removed | 3° × | N/A |
| - OK | Overfilling test with additional amount of water, over a period of 1 min (I) | Segretary Original Control | N/A |
| St. Col | The appliance withstands the electric strength test of 16.3 | | N/A |
| Q, | No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29 | Dr. Cor | N/A |
| 15.3 | Appliances proof against humid conditions | - or | P |
| Co - cit | Checked by test Cab: Damp heat steady state in IEC 60068-2-78 | , 50° x 0' 50° | P |
| Oh, C | Detachable parts removed and subjected, if necessary, to the humidity test with the main part | O'CO | N/A |
| 0 | Humidity test for 48 h in a humidity cabinet | RH: 93%, temperature: 25°C | Р |
| X. | Reassembly of those parts that may have been removed | × V P | N/A |
| | The appliance withstands the tests of clause 16 | 20 K | хР |
| 16 | LEAKAGE CURRENT AND ELECTRIC STRENGTH | 7.5 | P |
| 16.1 | Leakage current not excessive and electric strength adequate | Dr. Cott Dr | P |
| ο, Ο, | Protective impedance disconnected from live parts before carrying out the tests | ON COL | N/A |

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|--------------------|---|----------------------|--------|
| Clause | Requirement | Remark | Result |
| -05 | | | |
| Cert | Tests carried out at room temperature and not connected to the supply | Nico. | Col |
| 16.2 | Single-phase appliances: test voltage 1,06 times rated voltage (V) | Orice Care | Pe |
| × | Three-phase appliances: test voltage 1,06 times rated voltage divided by √3 (V): | er Or Cerr | N/A |
| 3 | Leakage current measurements | (see appended table) | Р |
| Col | Limit values doubled if: | | / N/A |
| × - e | - all controls have an off position in all poles, or |) | N/A |
| OV. | - the appliance has no control other than a thermal cut-out, or | O, Co. | N/A |
| 0 | all thermostats, temperature limiters and energy regulators do not have an off position, or | ar Dr. Cet | N/A |
| - or | - the appliance has radio interference filters | 0° × 0° 00° | N/A |
| ,ce ^{it} | With the radio interference filters disconnected, the leakage current do not exceed limits specified: | (see appended table) | Ň/A |
| 16.3 | Electric strength tests according to table 7 | (see appended table) | P |
| X OV | Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified | (see appended table) | N/A |
| | No breakdown during the tests | Co. | » Р |
| 17 | OVERLOAD PROTECTION OF TRANSFORMERS AND | ASSOCIATED CIRCUITS | N/A |
| Or Co | No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use | (see appended table) | N/A |
| Š. | Appliance supplied with 1,06 or 0,94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V) | Cet Orion Cet | N/A |
| ∑ _{®,} ×. | Basic insulation is not short-circuited | | N/A |
| Or. Co. | Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K | Olicer O | N/A |
| O'V | Temperature of the winding not exceeding the value specified in table 8 | A OF COT | N/A |
| | However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1 | Cet Or Cet | N/A |
| 18 | ENDURANCE | | |
| OV. Ce | Requirements and tests are specified in part 2 when necessary | Or Car | N/A |
| 19 | ABNORMAL OPERATION | | P |

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| | EN 60335-1 | | |
|---------|--|----------------------|--------|
| Clause | Requirement | Remark | Result |
| | - · · · · · · · · · · · · · · · · · · · | | |
| 19.1 | The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated | OLICO SEL OVI | COXP. |
| Dr. C | Electronic circuits so designed and applied that a fault will not render the appliance unsafe | (see appended table) | Pos |
| x. < | Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and | st of cent | N/A |
| Cott. | if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and | Ticet Or Orice | N/A |
| | if applicable, to the test of 19.5 | | N/A |
| OV. | Appliances incorporating PTC heating elements are also subjected to the test of 19.6 | O'. Got. | N/A |
| × | Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable | et or cet | Р |
| -,er | Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable | Cor i Original | P |
| OV.OS | Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11 | Dr. Car. | N/A |
| × < | Appliances incorporating voltage selector switches subjected to the test of 19.15 | ir Or Cor | N/A |
| c ott | Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or | | N/A |
| | until steady conditions are established | D. Co. | P. |
| O), | If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample | Or Car | N/A |
| 19.2 | Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0,85 times rated power input (W): | Cet X OV Cet | N/A |
| 9.3 | Test of 19.2 repeated; test voltage (V), power input of 1,24 times rated power input (W): | Orice of the | Ň/A |
| 9.4 | Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited | OF COR | N/A |
| 9.5 | Test of 19.4 repeated on class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath | Cet Or Cet | N/A |
| , o cor | The test repeated with reversed polarity and the other end of the heating element connected to the sheath | | N/A |
| | | | |

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| Clause | Requirement | Remark | Result |
|---------|---|----------------------|--------|
| Olddoc | requirement | remark | result |
| Or Cex | The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4 | Oliceit Oliceit | N/A |
| 19.6 | Appliances with PTC heating elements tested at rated voltage, establishing steady conditions | i or or | N/A |
| y Cort | The working voltage of the PTC heating element is increased by 5 % and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1,5 times working voltage or until the PTC heating element ruptures (V) | Dicer Dicer | N/A |
| 19.7 | Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or | O' Co | P |
| O, | locking moving parts of other appliances | | N/A |
| X | Locked rotor, capacitors open-circuited one at a time | COL CO | N/A |
| - etc | Test repeated with capacitors short-circuited one at a time, unless | Cost X OV | N/A |
| | the capacitor is of class S2 or S3 of IEC 60252-1 | 0, 00, | N/A |
| OV. | Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed | Tr Or Cer | N/A |
| c Ceit | An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit. | Ticet Orice | N/A |
| Or.Co | Other appliances supplied with rated voltage for a period as specified: | DY COL | N/A |
| O) | Winding temperatures not exceeding values specified in table 8 | (see appended table) | P |
| 9.8 | Multi-phase motors operated at rated voltage with one phase disconnected | | N/A |
| 9.10 | Series motor operated at 1,3 times rated voltage for 1 min (V) | Ohio Cair Or | N/A |
| Oh, C | During the test, parts not being ejected from the appliance | Oh. Cop. X | N/A |
| 9.11 | Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless | er of cert | P |
| Cox | they comply with the conditions specified in 19.11.1 | No off | N/A |
| Or. Cer | Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless | Orion X | N/A |
| | restarting does not result in a hazard | △, ○ _© , | P |

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| | EN 60335-1 | | Ó. |
|---------|---|--|--------|
| Clause | Requirement | Remark | Result |
| O'COK | Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4 | Or Cert Or Ce | N/A |
| QV. | If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out | ek Dricek | N/A |
| COL | During and after each test the following is checked: | 20° & OV | er_ |
| Col | - the temperature of the windings do not exceed the values specified in table 8 | | , CBA |
| 0, | - the appliance complies with the conditions specified in 19.13 | Cot. | O P |
| | - any current flowing through protective impedance not exceeding the limits specified in 8.1.4 | Car Di Car | N/A |
| Se Ceit | If a conductor of a printed board becomes open-circuited, have withstood the particular test, provided both of the fol | | N/A |
| OL, C | - the base material of the printed circuit board withstands the test of annex E | D. C. C. C. | N/A |
| , O' | - any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29 | St. Or. Cet. | N/A |
| 19.11.1 | Fault conditions a) to g) in 19.11.2 are not applied to circuboth of the following conditions: | lits or parts of circuits meeting | er - |
| Dr. Cel | the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified | O'CO'CO'CO'CO'CO'CO'CO'CO'CO'CO'CO'CO'CO | N/A |
| oř. | the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit | Cot x Dr. Cot. | N/A |
| 19.11.2 | Fault conditions applied one at a time, the appliance oper specified in clause 11, but supplied at rated voltage, durate | | Ň/A |
| Dr. Or. | a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29 | Or Care O | N/A |
| × * | b) open circuit at the terminals of any component | | N/A |
| X | c) short circuit of capacitors, unless | Co. Co. | N/A |
| Cox | they comply with IEC 60384-14 | C C C | N/A |
| Cer | d) short circuit of any two terminals of an electronic component, other than integrated circuits | dr. Ogr. | N/A |
| Δ, | This fault condition is not applied between the two circuits of an optocoupler | O Ser X | N/A |

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| Clause | Requirement | Remark | Result |
|----------|--|------------------|--------|
| Jiause | Requirement | Remark | Result |
| -9° × | e) failure of triacs in the diode mode | | N/A |
| Č. | f) failure of microprocessors and integrated circuits | OV COST | N/A |
| Q (| g) failure of an electronic power switching device | | N/A |
| × 0, | Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made | ar Diccor | N/A |
| 9.11.3 | If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified | T. Colt. Or. Or. | N/A |
| 9.11.4 | Appliances having a device with an off position obtained by electronic disconnection, or | Q, Co, Y | N/A |
| | a device that can be placed in the stand-by mode, | · O. O. | N/A |
| get . | subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode | Cay Or Cay | N/A |
| dr. Cey | Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that | Oriceit Or | N/A |
| | appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena. | et di cer | N/A |
| - oth | Surge protective devices disconnected, unless | | N/A |
| | They incorporate spark gaps | | N/A |
| 9.11.4.1 | The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4 | ON COLUMN | N/A |
| 9.11.4.2 | The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified | Cat. Dr. Cat. | N/A |
| 9.11.4.3 | The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified | Dr. Cett. Dr. | N/A |
| 9.11.4.4 | The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified | OF CONTROL | N/A |
| < | An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode | Ar Or Cour | N/A |
| Cerr | An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling | y of a | / N/A |
| Co | Earthed heating elements in class I appliances disconnected | Or Car | N/A |

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|-------------------|---|----------------------|----------|
| Clause | Requirement | Remark | Result |
| 19.11.4.5 | The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3 | Cont. Or Orice | N/A |
| 19.11.4.6 | Appliances having a rated current not exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-11 | Or Cor | N/A |
| X X | Appliances having a rated current exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-34 | St. Or Cot. | N/A |
| 9.11.4.7 | The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2 | | N/A |
| 9.11.4.8 | The appliance is supplied at rated voltage and operated under normal operation. After 60 s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate | - ot Or cot | N/A |
| .000 | The appliance continues to operate normally, or | | N/A |
| - ex | requires a manual operation to restart | 20° x 0 | N/A |
| 9.12 | If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A) | st Dr. Cett | N/A |
| 9.13 | During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts | Tico, X Ori | P P |
| OL.O | Temperature rises not exceeding the values shown in table 9 | (see appended table) | P |
| \Diamond | Compliance with clause 8 not impaired | | Р |
| | If the appliance can still be operated it complies with 20.2 | - 0× 0° | Р |
| ,ce ^{it} | Insulation, other than of class III appliances or class III cor live parts, withstands the electric strength test of 16.3, the table 4: | | Cert |
| O, C | -basic insulation (V) | | P |
| ON | -supplementary insulation (V) | 2,00 | N/A |
| | -reinforced insulation (V) | | Po |
| Cert | After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage | Cot Or Cot | N/A |
| Or.Os. | The appliance does not undergo a dangerous malfunction, and | ON CONT. | P |

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| Clause | Requirement | Remark | Result |
|---------|--|-------------------------------|---------|
| -05 | | <u> </u> | |
| | no failure of protective electronic circuits, if the appliance is still operable | | N/A |
| OV (| Appliances tested with an electronic switch in the off position | on, or in the stand-by mode: | Po |
| OVÍ | - do not become operational, or | O X | P |
| × . | - if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4 | | N/A |
| | If the appliance contains lids or doors that are controlled by of the interlocks may be released provided that: | y one or more interlocks, one | N/A |
| , cer | the lid or door does not move automatically to an open position when the interlock is released, and | Diff Cet. Di | N/A |
| 0, | the appliance does not start after the cycle in which the interlock was released | . Or cor | N/A |
| 9.14 | Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited | Cay Dr. Cay | N/A |
| av. Cer | For a relay or contactor with more than one contact, all contacts are short-circuited at the same time | di ceit di | N/A |
| O), | A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited | * Or Car | N/A |
| × × | If more than one relay or contactor operates in clause 11, they are short-circuited in turn | Set Or Cert | N/A |
| 9.15 | For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied | Di Cort Di | N/A |
| 20 | STABILITY AND MECHANICAL HAZARDS | | O C |
| 0.1 | Appliances having adequate stability | V 00 X | N/A |
| git . | 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 | Cert Ovi Ce | N/A |
| Cer | Tilting test repeated on appliances with heating elements, angle of inclination increased to 15° | Dr. Cay Dr. | N/A |
| OL. | Possible heating test in overturned position; temperature rise does not exceed values shown in table 9 | ON COR | N/A |
| 0.2 | Moving parts adequately arranged or enclosed as to provide protection against personal injury | of Other Care | N/A |
| Cox | Protective enclosures, guards and similar parts are non-detachable, and | | N/A |
| Cer | have adequate mechanical strength | OV ot | N/A |
| 0 | Enclosures that can be opened by overriding an interlock | × × | ○ N/A ⊂ |

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| Clause | Requirement | Remark | Result |
|-----------|---|---------------------------|--------|
| Clause | Requirement | Remark | Result |
| -ON CONT | Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure | Cox Or Co | N/A |
| Qr. C | Not possible to touch dangerous moving parts with the test probe described | 0, 00 0 0 | N/A |
| 21 | MECHANICAL STRENGTH | | Р |
| 21.1 | Appliance has adequate mechanical strength and is constructed as to withstand rough handling | | P |
| Cert | Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J | (see appended table) | P P |
| 0 | The appliance shows no damage impairing compliance with this standard, and | OV COR | N/A |
| X | compliance with 8.1, 15.1 and clause 29 not impaired | COL | N/A |
| John Rich | If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3 | | N/A |
| QV. C | If necessary, repetition of groups of three blows on a new sample | O' CON O | N/A |
| 21.2 | Accessible parts of solid insulation having strength to prevent penetration by sharp implements | × V Got | N/A |
| it of | Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm | Cert A Dr. Cert | N/A |
| Y. Cox | The insulation is tested as specified, and does withstand the electric strength test of 16.3 | Dr. Co. | N/A |
| 22 | CONSTRUCTION | | O P C |
| 22.1 | Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled | IPX0 | N/A |
| 22.2 | Stationary appliance: means to ensure all-pole disconnect provided: | ion from the supply being | N/A |
| Col | - a supply cord fitted with a plug, or | OV. OK. OV | N/A |
| 0, 0 | - a switch complying with 24.3, or | 1,0° 0,0° | N/A |
| OL | - a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or | x Or cor | N/A |
| č. | - an appliance inlet | , O, -ot | N/A |
| Cerr | 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 | Tices of the | N/A |
| 22.3 | Appliance provided with pins: no undue strain on socket-outlets | √, | N/A |

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| | EN 60335-1 | | , V |
|------------|--|--|---------|
| Clause | Requirement | Remark | Result |
| <i>S</i> × | Applied torque not exceeding 0,25 Nm | | N/A |
| Dr. Co. | Pull force of 50 N to each pin after the appliance has being placed in the heating cabinet; when cooled to roor temperature the pins are not displaced by more than 1 mm | n Dr. Cert | N/A |
| | Each pin subjected to a torque of 0,4 Nm; the pins are not rotating, unless | | N/A |
| at l | rotating does not impair compliance with this standard | Con to the contract of the con | N/A |
| 22.4 | Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets | Or Cert | N/A |
| 22.5 | No risk of electric shock when touching pins, 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 | Cert Or Cert | N/A |
| COL | Voltage not exceeding 34 V (V) | , Co x 0 | N/A |
| Oh, Oh, | If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4. and 19.11.4.4 are applied | 3 Orice Cert | N/A |
| × | The discharge test is then repeated three times, voltage not exceeding 34 V (V) | | N/A |
| 2.6 | Electrical insulation not affected by condensing water or leaking liquid | Col. | N/A |
| , Ce | Electrical insulation of class II appliances not affected if hose ruptures or seal leaks | a or cor | N/A |
| Ο, | In case of doubt, test as described | x OV COR | 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 gaine without the aid of a tool, and that are likely to be cleaned in normal use | | N/A |
| 22.9 | Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless | 38th Shirt Sept | (A) (A) |
| x | 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: | Or Cake | N/A |

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| Clause | Requirement | Remark | Result |
|-------------------|--|-----------------------|--------|
| Jiause | rrequirement | remark | TCSuit |
| ge ⁱ | - a non-self-resetting thermal cut-out is required by the standard, and | Copy of Original Copy | N/A |
| ON. | - a voltage maintained non-self-resetting thermal cut-out is used to meet it | Or Co | N/A |
| x. | Non-self-resetting thermal motor protectors have a trip-free action, unless | | N/A |
| | they are voltage maintained | SY Or Co. | N/A |
| Cer | Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely | Y. Cor. | N/A |
| 2.11 | Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts | Or Cert | N/A |
| × | Obvious locked position of snap-in devices used for fixing such parts | cert Oli cert | N/A |
| .jer | No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing | Sicor Sicor | N/A |
| 0 | Tests as described | V 0 X | N/A |
| 2.12 | Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard | x O' ce ^x | P |
| - oft | Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard | Cer X Or Cer | P |
| | A choking hazard does not apply to appliances for commercial use |), Co, -0's, O, | N/A |
| O), | Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied | OF CONT | P |
| | Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied | Car Or Car | N/A |
| ,ce ^{ix} | If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard | OLCOK OLC | N/A |
| 2.13 | 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 | or Oricer | N/A |
| 2.14 | No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance | Car. Or Car | P |
| , cer | 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 | Or Coly O | P |
| 2.15 | Storage hooks and the like for flexible cords smooth and well rounded | No storage hooks used | N/A |

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| . 0 | EN 60335-1 | × × | Α, |
|------------------|--|------------------------------|--------|
| Clause | Requirement | Remark | Result |
| 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 | No automatic cord reels used | N/A |
| A | Cord reel tested with 6000 operations, as specified | Or Call | N/A |
| \Diamond | Electric strength test of 16.3, voltage of 1000 V applied | x OV cott | N/A |
| 22.17 | Spacers not removable from the outside by hand or by means of a screwdriver or a spanner | St. Or Cot. | N/A |
| 22.18 | Current-carrying parts and other metal parts resistant to corrosion | | N/A |
| 22.19 | Driving belts not relied upon to provide the required level of insulation, unless | ON COL | N/A |
| 0 | constructed to prevent inappropriate replacement | · O × | N/A |
| 22.20 | Direct contact between live parts and thermal insulation effectively prevented, unless | Cet. O' Cet | N/A |
| or Ceir | material used is non-corrosive, non-hygroscopic and non-combustible | Cor of Orice | N/A |
| 22.21 | Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless | | PO |
| O. | impregnated | · OV - ot | N/A |
| | This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements | Cert Direct | N/A |
| 22.22 | Appliances not containing asbestos | | P |
| 22.23 | Oils containing polychlorinated biphenyl (PCB) not used | ON COST | ÇP |
| 22.24 | Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported | OV. Cork | N/A |
| -se ^x | 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 | Or Cert Or | Ñ/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 | sk dr. dr. cek | N/A |
| 22.27 | Parts connected by protective impedance separated by double or reinforced insulation | | N/A |
| 22.28 | Metal parts of class II appliances conductively connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation | Or Car | N/A |

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| Clause | Requirement | Remark | Result |
|-------------------|--|--------------------|---------|
| Jiddoc | requirement | Teman | rtcourt |
| 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 | Dr. Cork Dr. Co | N/A |
| 22.30 | Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or | x Or car | N/A |
| e en | 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 | Ticat di cat | N/A |
| 2.31 | Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear | Or Cert | N/A |
| .je ^{jč} | Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose | Cor O' Cor | N/A |
| 2.32 | Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29 | Original Cost | N/A |
| | 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 | cet or cet | N/A |
| | Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation | Dr. Carr Dr. | N/A |
| 0, | Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation | x Dr. Cor | N/A |
| , ot x | Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature | Contraction of the | N/A |
| 2.33 | Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts | | N/A |
| | unearthed metal parts separated from live parts by basic insulation only | F O CO | N/A |
| X | Electrodes not used for heating liquids | Cor V | N/A |
| , Cor | 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 | Arcer A | N/A |

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| 01 | | - V - Oi | |
|---------|--|--|--------|
| Clause | Requirement | Remark | Result |
| O X | the reinforced insulation consists of at least 3 layers | | N/A |
| Or. Co. | For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless | Or Car O | N/A |
| O, | the reinforced insulation consists of at least 3 layers | · OY - of | N/A |
| it of | An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid | Cet Dr. Cet | N/A |
| 22.34 | Shafts of operating knobs, handles, levers etc. not live, unless | N. Col. | N/A |
| OV. | the shaft is not accessible when the part is removed | , Co x | 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 | cet Orice | N/A |
| Or. Cay | 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 | Oriceit Orice | N/A |
| jt. | 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. | cert Dicert | N/A |
| N. Cos | Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation | Or Col | 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 | Cett Or Cett | N/A |
| Co Cox | 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 | A Dr. Cot. D | N/A |
| Č. | the capacitors comply with 22.42 | | N/A |
| 22.38 | Capacitors not connected between the contacts of a thermal cut-out | Contract of Contra | N/A |
| 22.39 | Lamp holders used only for the connection of lamps | No lamp holders | N/A |

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| | EN 60335-1 | × × | |
|--------------------|--|--------------------|--------|
| Clause | Requirement | Remark | Result |
| 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 | Oricet Orice | P |
| ,t Cot | 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 | TOOK OF COK | N/A |
| 22.41 | No components, other than lamps, containing mercury | | P |
| 22.42 | Protective impedance consisting of at least two separate components | O' GOT | N/A |
| \rightarrow | Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited | er or cer | N/A |
| -,eX | Resistors checked by the test of 14.1 a) in IEC 60065 | C X OV C | N/A |
| Cork | Capacitors checked by the tests for class Y capacitors in IEC 60384-14 | Orice Car | Ñ/A |
| 22.43 | Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur | No such components | 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 | Ticet of | N/A |
| 22.46 | For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1 | or Oricer | N/A |
| -je ^{jt} | 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 | Of Cert Of Ce | N/A |
| Or, | These requirements are not applicable to software used for functional purpose or compliance with clause 11 | ON SOLVE | N/A |
| 22.47 | Appliances connected to the water mains withstand the water pressure expected in normal use | Y O CON | N/A |
| | No leakage from any part, including any inlet water hose | Col. V. Co. | 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 | O CO | N/A |

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| Clause | Requirement | Remark | Result |
|-------------|--|-----------------------------|--------|
| Oladoc | requirement | rtemant | rtodat |
| or cor | the appliance switches off automatically or can operate continuously without hazard | Chicago Chicago | N/A |
| 22.50 | Controls incorporated in the appliance take priority over controls actuated by remote operation | A Chicago Color | 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 | et Direct | N/A |
| cert | There is a visual indication showing that the appliance is adjusted for remote operation | | N/A |
| | These requirements not necessary on appliances that can giving rise to a hazard: | operate as follows, without | N/A |
| V . | - continuously, or | Or cer | N/A |
| \Diamond | - automatically, or | × OY -of | N/A |
| ~~ | - remotely | | N/A |
| 22.52 | Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold | Dr. Cort. Dr. Co | 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. | St. Or Cer. | N/A |
| 22.54 | Button cells and batteries designated R1 not accessible without the aid of a tool, unless | Sex X Dice | N/A |
| N' CO | the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously | Or Con Or | N/A |
| 22.55 | Devices operated to stop the intended function of the appliance, if any, are be distinguished from other manual devices by means of shape, size, surface texture or position | Cay Dr. Cay | N/A |
| Series Cert | The requirement concerning position does not preclude use of a push on push off switch | alicent drive | N/A |
| 01/ | An indication when the device has been operated is given | by: | N/A |
| OLI | - tactile feedback from the actuator or from the appliance, or | V OV CON | N/A |
| × . | - reduction in heat output; or | SC ON SC SK | N/A |
| × | - audible and visible feedback | - 6 CO | N/A |
| 22.56 | Detachable power supply part provided with the part of class III construction | Cer , D | N/A |
| 22.57 | The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in annex T | QV CONT | N/A |

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| Clause | Requirement | Remark | Result |
|--------------------|--|--|--------|
| Jiause | requirement | Remain | resuit |
| Se ^{it} | This requirement does not apply to glass, ceramics or similar materials | a contract of | N/A |
| 23 | INTERNAL WIRING | 173. (// | Pe |
| 23.1 | Wireways smooth and free from sharp edges | S. Co. | P |
| ~ | Wires protected against contact with burrs, cooling fins etc. | it of con | Р |
| Cex | Wire holes in metal well-rounded or provided with bushings | | N/A |
| Ces | Wiring effectively prevented from coming into contact with moving parts | Dr. Cett Dr | P |
| 3.2 | Beads etc. on live wires cannot change their position, and are not resting on sharp edges | OV. Car | N/A |
| | Beads inside flexible metal conduits contained within an insulating sleeve | CST. O. CS. | N/A |
| 23.3 | Electrical connections and internal conductors movable relatively to each other not exposed to undue stress | alicent at the | N/A |
| OV. | Flexible metallic tubes not causing damage to insulation of conductors | Or Co | N/A |
| O. | Open-coil springs not used | · OV - ot | N/A |
| K. | Adequate insulating lining provided inside a coiled spring, the turns of which touch one another | of the cost | N/A |
| Cert | No damage after 10 000 flexings for conductors flexed during normal use, or | Y' CO'N Y' | / N/A |
| 07.00 | 100 flexings for conductors flexed during user maintenance | Or Cer | N/A |
| 0) | Electric strength test of 16.3, 1000 V between live parts and accessible metal parts | Evaluation as certified power adaptor | N/A |
| ,oř | Not more than 10 % of the strands of any conductor broken, and | | N/A |
| Cort | not more than 30 % for wiring supplying circuits that consume no more than 15 W | Original Origina Origina Origina Origina Origina Origina Origina Origina Or | N/A |
| 23.4 | Bare internal wiring sufficiently rigid and fixed | No bare internal wiring | N/A |
| 3.5 | The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use | of Orionalia | N/A |
| , ce ^{it} | Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or | Y Cott | N/A |
| Or.Co. | no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation | Or Cay | N/A |

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| EN 60335-1 | | | |
|------------|---|----------------------|----------------|
| Clause | Requirement | Remark | Result |
| -05 | | 0° x 0° ce | |
| Cerr | For class II construction, the requirements for supplementary insulation and reinforced insulation apply, | N.Co. | N/A |
| | except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation. | V Dirocare | N/A |
| , c | A single layer of internal wiring insulation does not provide reinforced insulation | | N/A |
| 23.6 | Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or | Y.Co. | N/A |
| N Ce | be such that it can only be removed by breaking or cutting | Dr. Cart Dr | N/A |
| 23.7 | The colour combination green/yellow only used for earthing conductors | Q, 20g, 8 | N/A |
| 23.8 | Aluminium wires not used for internal wiring | Co. | P |
| 23.9 | Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless | Cott. Of Co | N/A |
| 000 | the contact pressure is provided by spring terminals | Dr. Col. | 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) | er Oricer | N/A |
| 24 | COMPONENTS | | хР |
| 24.1 | Components comply with safety requirements in relevant IEC standards | N. Cott | P |
| | List of components: | (see appended table) | P |
| ◇ | Motors not required to comply with IEC 60034-1, they are tested as part of the appliance | O. Cop. | P |
| | Relays tested as part of the appliance, or | - 0/2 O. Co. | N/A |
| John J.K. | alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1 | Carr Dr Co | N/A |
| OL.Co | The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance | O Cor | N/A |
| X OV | Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard | St. Or Cost. | N/A |
| Cert | 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections | Cox Or Cox | P |
| Orice | Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2 | Oringer Or | O ^P |
| | | | |

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| EN 60335-1 | | | 1 5 " |
|------------------|--|-----------------|------------------|
| Clause | Requirement | Remark | Result |
| Or. Cerr | Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met | Dr. Copt. Or Co | Cer ^P |
| Or | If these conditions are not satisfied, the component is tested as part of the appliance. | a process | ÓΡ |
| e ^{et} | Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance | Cost x Or cost | N/A |
| N. Ce | If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9 | | B ^K |
| Ce ^{it} | For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9 | Cert Oli Cert | P |
| Dr. Cer | Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance | Or Cert Or | C P |
| | Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard | or or or | N/A |
| Q), Q | No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309 | Dr. Cert | N/A |
| 24.1.1 | Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14 | Cert of Of | N/A |
| Or is | If the capacitors have to be tested, they are tested according to annex F | OF CST. | N/A |
| 24.1.2 | Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16 | it of cent | N/A |
| - of | Safety isolating transformers complying with IEC 61558-2-6 | Csy. D. Csy. | N/A |
| Y CO | If they have to be tested, they are tested according to annex G | | N/A |
| 24.1.3 | Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000 | OV ot. | N/A |

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| Clause | EN 60335-1 | Domark | Dogult |
|---------------------|--|----------------------------------|--------|
| Clause | Requirement | Remark | Result |
| -en cent | If they have to be tested, they are tested according to annex H | DY CON OF OFFICE | N/A |
| Or. | If the switch operates a relay or contactor, the complete switching system is subjected to the test | Orice Car | N/A |
| ,č | If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested | Cety Or Cety | N/A |
| 24.1.4 | Automatic controls complying with IEC 60730-1 with the cycles of operation being at least: | e relevant part 2. The number of | N/A |
| AV. | -thermostats: | 0 0 00 | N/A |
| → · · · | -temperature limiters: | ON ON CON | N/A |
| 0 | -self-resetting thermal cut-outs: | | N/A |
| -jeř | -voltage maintained non-self-resetting thermal cut-outs: | | N/A |
| Cert | -other non-self-resetting thermal cut-outs:3 | | N/A |
| 01/ | -timers: | 0 0 0 0 | N/A |
| OV. | -energy regulators:10 00 | | N/A |
| r er | 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 | Carr Or Carr | N/A |
| , Co | Thermal motor protectors are tested in combination with their motor under the conditions specified in annex D | | N/A |
| Q). | 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 | er Origer | N/A |
| -je ^{jt} x | Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9 | | N/A |
| 24.1.5 | Appliance couplers complying with IEC 60320-1 | O'C COK | N/A |
| Dr. Or. | However, for class II appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3 | . OLICOK O | N/A |
| ×. | Interconnection couplers complying with IEC 60320-2-2 | | N/A |
| 24.1.6 | Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable | ng Cart Olice | N/A |
| 24.1.7 | For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151 | | N/A |

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| . 🔍 | EN 60335-1 | X | |
|------------------|---|---------------------------------|--------|
| Clause | Requirement | Remark | Result |
| 24.4.0 | The unity and standard for the areal limbs in IEO COCOA | | NI/A |
| 24.1.8 | The relevant standard for thermal links is IEC 60691 | , Co x 0V | N/A |
| | Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of clause 19 | Or Co. | N/A |
| 24.1.9 | Contactors and relays, other than motor starting relays, tested as part of the appliance | in the second | N/A |
| or cert | 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 | Ticet & discon | N/A |
| 24.2 | Appliances not fitted with: | O _x C _o x | N/A |
| 0 | - switches, automatic controls, power supplies and the like in flexible cords; | DV Car | N/A |
| -eit | - devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance | | N/A |
| o it | - thermal cut-outs that can be reset by soldering, unless | So, ' Or' | N/A |
| 2,00 | the solder has a melding point of at least 230 °C | Dr. Cell | 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 | e propriet | N/A |
| 24.4 | Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1 | Cert Or | N/A |
| 24.5 | Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly | × Direct | N/A |
| ce ^{it} | 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 | Cor or or or | 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 |
| , c | In addition, the motors comply with the requirements of annex I | of Original | N/A |
| 24.7 | Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770 | You give by J | N/A |
| Ce | They are supplied with the appliance | O' O' | N/A |
| OV | Appliances intended to be permanently connected to the | V 00 X | N/A |

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| EN 60335-1 | | | V . |
|------------------|--|---------------------------------|--------------|
| Clause | Requirement | Remark | Result |
| 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 | Dr. Cert Dr. Ce | N/A |
| OV | One or more of the following conditions are to be met: | V 200 X | N/A |
| , | - the capacitors are of class S2 or S3 according to IEC 60252-1 | | N/A |
| Cert | - the capacitors are housed within a metallic or ceramic enclosure | | N/A |
| N Ce | the distance of separation of the outer surface to adjacen non-metallic parts exceeds 50 mm | t or cert | N/A |
| Ó | - adjacent non-metallic parts within 50 mm withstand the needle-flame test of annex E | * Or Car | N/A |
| - er | - 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 C | ORDS | - 0 <u>×</u> |
| 25.1 | Appliance not intended for permanent connection to fixed to the supply: | wiring, means for connection | N/A |
| , OV | - 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 | Li-ion Battery used. | N/A |
| Cet | an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or | Or Carr | N/A |
| , Ce | - pins for insertion into socket-outlets | OV COK | N/A |
| 25.2 | Appliance not provided with more than one means of connection to the supply mains | S OF CONT. | N/A |
| Se ^{jt} | 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 | Cett Or Cet | N/A |
| 25.3 | Appliance intended to be permanently connected to fixed following means for connection to the supply mains: | wiring provided with one of the | N/A |
| OL | - a set of terminals allowing the connection of a flexible cord | N OV - OK | N/A |
| X | - a fitted supply cord | | N/A |
| ceit | -a set of supply leads accommodated in a suitable compartment | Coll of College | N/A |
| Dr. Co | - a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support | Original Original | N/A |

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| . < | EN 60335-1 | | |
|------------------|---|----------------------------|--------|
| Clause | Requirement | Remark | Result |
| Or Cor | - 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 | Or Cay Or Cay | N/A |
| CSK. | 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 | St. Or Cet. | N/A |
| 25.4 | Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm): | Orio Cair Or | N/A |
| Ċ. | Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29 | × Or Cay | N/A |
| 25.5 | Method for assembling the supply cord to the appliance: | | N/A |
| , X | - type X attachment | CONT. | N/A |
| Ç | - type Y attachment | Dr. Car | N/A × |
| O, (| - type Z attachment | 0\ - 0\ C | N/A |
| Of | Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords | ir or cer | N/A |
| , Cert | 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 | Ticett Oricet | N/A |
| 25.6 | Plugs fitted with only one flexible cord | Or Cal | N/A |
| 25.7 | Supply cords, other than for class III appliances, being on | e of the following types: | N/A |
| | - rubber sheathed (at least 60245 IEC 53) | | N/A |
| X | - polychloroprene sheathed (at least 60245 IEC 57) | - ex | N/A |
| - o ⁱ | polyvinyl chloride sheathed. Not used if they are likely to to temperature rise exceeding 75 K during the test of clause | | N/A |
| OL. | - light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg | Or Contract Or | N/A |
| Or | - ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances | k O' ost | N/A |
| X X | heat resistant polyvinyl chloride sheathed. Not used for typ specially prepared cords | be X attachment other than | N/A |
| , Co | - heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg | | N/A |
| OL. | - heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances | O' CO | N/A |
| Ó | - halogen-free, low smoke, thermoplastic insulated and sh | eathed | N/A |

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| . 0 | EN 60335-1 | | |
|----------------------|--|---------------|--------|
| Clause | Requirement | Remark | Result |
| -er | | | |
| Cert | - light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable | Or cert or o | N/A |
| | - Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f(for flat cable | Y Or Car | N/A |
| N. C. | Supply cords for class III appliances adequately insulated | X OV COR | N/A |
| Cert | Test with 500 V for 2 min for supply cords of class III appliances that contain live parts | | N/A |
| 25.8 | Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²) | Orio Cett of | N/A |
| 50 th 5th | Supply cord of deep well pumps have a length of at least 3 m in excess of the maximum well depth, unless the deep well pump is provided with a coupling device having at least the same degree of protection as required for the pump. | Ceir Diroceir | N/A |
| 25.9 | Supply cords not in contact with sharp points or edges | Or con | N/A |
| 25.10 | Supply cord of class I appliances have a green/yellow core for earthing | O' CON O | N/A |
| × × | In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue. | St. O. Co. | N/A |
| χ. | Where additional neutral conductors are provided in the su | ipply cord: | N/A |
| V - 05 | - other colours may be used for these additional neutral conductors; | N. Cox X DV. | N/A |
| Ol. | - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 | O' Co | N/A |
| | - the supply cord is fitted to the appliance | is or car | N/A |
| 25.11 | Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless | | N/A |
| ÌC. | the contact pressure is provided by spring terminals | Or cell | N/A |
| 25.12 | Insulation of the supply cord not damaged when moulding the cord to part of the enclosure | Or Cert | N/A |
| 25.13 | Inlet openings so constructed as to prevent damage to the supply cord | K OV CON | N/A |
| Çe ^{řt} | 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 | Nicety Alice | N/A |
| OV. | If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is | O' - o' | N/A |

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| class 0, or a class III appliance not containing live parts 25.14 Supply cords moved while in operation adequately protected against excessive flexing - applied force (N) | Result | Remark | Requirement | Clause |
|--|-----------|-----------------|---|------------------|
| a class III appliance not containing live parts 25.14 Supply cords moved while in operation adequately protected against excessive flexing - applied force (N) | Result | Remark | Requirement | Clause |
| Supply cords moved while in operation adequately protected against excessive flexing - applied force (N) | N/A | | class 0, or | O'N N |
| protected against excessive flexing applied force (N) | N/A | Or coll | a class III appliance not containing live parts | Ç |
| - number of flexings | 0/- Ce | Or Car | | 25.14 |
| - number of flexings | N/A | Tr Or Col | - applied force (N) | · · |
| -short-circuit between the conductors, such that the current exceeds a value of twice the rated current -breakage of more than 10 % of the strands of any conductor -separation of the conductor from its terminal -loosening of any cord guard -damage to the cord or the cord guard -broken strands piercing the insulation and becoming accessible 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: -fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) -other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) Cord not damaged and max. 2 mm displacement of the cord Cord anchorages for type X attachments constructed and located so that: -replacement of the cord is easily possible -it is clear how the relief from strain and the prevention of twisting are obtained | N/A | x or con | - number of flexings: | C |
| current exceeds a value of twice the rated current -breakage of more than 10 % of the strands of any conductor - separation of the conductor from its terminal - loosening of any cord guard - damage to the cord or the cord guard - broken strands piercing the insulation and becoming accessible 75.15 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) - other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) Cord not damaged and max. 2 mm displacement of the cord Cord anchorages for type X attachments constructed and located so that: - replacement of the cord is easily possible - it is clear how the relief from strain and the prevention of twisting are obtained | N/A | O . OV | The test does not result in: | -01 |
| conductor - separation of the conductor from its terminal - loosening of any cord guard - damage to the cord or the cord guard - broken strands piercing the insulation and becoming accessible 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) | N/A | | | v. Cer |
| - loosening of any cord guard - damage to the cord or the cord guard - broken strands piercing the insulation and becoming accessible 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm): - other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm): Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm): Cord not damaged and max. 2 mm displacement of the cord Cord anchorages for type X attachments constructed and located so that: - replacement of the cord is easily possible - it is clear how the relief from strain and the prevention of twisting are obtained | N/A | . Orio car | | O) |
| - damage to the cord or the cord guard - broken strands piercing the insulation and becoming accessible 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm): - other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm): Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm): Cord not damaged and max. 2 mm displacement of the cord Cord anchorages for type X attachments constructed and located so that: - replacement of the cord is easily possible - it is clear how the relief from strain and the prevention of twisting are obtained | N/A | x OV COR | - separation of the conductor from its terminal | Ο, |
| - broken strands piercing the insulation and becoming accessible 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: -fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) | N/A | | - loosening of any cord guard | a ^X |
| accessible 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) | N/A | Colt V | - damage to the cord or the cord guard | <i>y</i> |
| 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 The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) | N/A | Or Cert | | 0,00 |
| extent that the cord or internal parts of the appliance can be damaged Pull and torque test of supply cord: - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) | N/A | st of cet | permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, | 25.15 |
| - fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm) | N/A | Y.Co. X OV. | extent that the cord or internal parts of the appliance can | |
| cord reel) (Nm) | N/A | Or Co. | Pull and torque test of supply cord: | AV. |
| pull (N); torque (not on automatic cord reel) (Nm) Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) | N/A | ON COL | | 0, |
| table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm) | N/A | | | . o ^x |
| cord Cord anchorages for type X attachments constructed and located so that: - replacement of the cord is easily possible - it is clear how the relief from strain and the prevention of twisting are obtained | N/A | Dr. Corr Dr. | table 12: mass (kg); pull (N); torque (not on automatic | OV. Colt |
| - replacement of the cord is easily possible - it is clear how the relief from strain and the prevention of twisting are obtained | N/A | Q. Co. | | OLIO |
| - it is clear how the relief from strain and the prevention of twisting are obtained | N/A | ocated so that: | Cord anchorages for type X attachments constructed and | 5.16 |
| twisting are obtained | N/A | Co. | - replacement of the cord is easily possible | × |
| | N/A | Ser Si | | Cer |
| - they are suitable for different types of supply cord | N/A | Or Col | - they are suitable for different types of supply cord | 0,00 |
| - cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless | N/A | Oh, Celt | | O., |

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| Clause | Requirement | Remark | Result |
| -01 | | 2 × 0 6 | |
| | they are separated from accessible metal parts by supplementary insulation | Co. Tr. Orice | N/A |
| ON C | the cord is not clamped by a metal screw which bears directly on the cord | DI'CE COL | N/A |
| × | - at least one part of the cord anchorage securely fixed to the appliance, unless | et of cett | N/A |
| | it is part of a specially prepared cord | Six Or Co. | N/A |
| ,cert | - screws which have to be operated when replacing the cord do not fix any other component, unless | | N/A |
| O. C. | the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool | ON COL | N/A |
| Ø, | - if labyrinths can be bypassed the test of 25.15 is nevertheless withstood | * OF CO | N/A |
| et | - for class 0, 0l and l appliances they are of insulating material or are provided with an insulating lining, unless | | N/A |
| Con | failure of the insulation of the cord does not make accessible metal parts live | Die Car | N/A |
| Ò, È | - for class II appliances they are of insulating material, or | ON COR | N/A |
| Ø, | if of metal, they are insulated from accessible metal parts by supplementary insulation | ir or cour | N/A |
| Cett | After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals | Licet of Dicet | N/A |
| 5.17 | Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance | Orio Car Or | N/A |
| 5.18 | Cord anchorages only accessible with the aid of a tool, or | ON COL | N/A |
| 0 | Constructed so that the cord can only be fitted with the aid of a tool | at of cet | N/A |
| 5.19 | Type X attachment, glands not used as cord anchorage in portable appliances | Cot Or Co | N/A |
| Or, Co. | Tying the cord into a knot or tying the cord with string not used | D. 50g. x 0 | N/A |
| 5.20 | The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts | × OV CO | N/A |
| 5.21 | Space for supply cord for type X attachment or for connec constructed: | tion of fixed wiring | N/A |
| Cer | - to permit checking of conductors with respect to correct positioning and connection before fitting any cover | | N/A |
| OV. Co. | - so there is no risk of damage to the conductors or their insulation when fitting the cover | Or Col. | N/A |

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| | EN 60335-1 | | V |
|------------|--|-------------------|--------|
| Clause | Requirement | Remark | Result |
| Corr | - 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 | Original Original | N/A |
| Or Ori | 2 N test to the conductor for portable appliances; no contact with accessible metal parts | Or Con X | N/A |
| 25.22 | Appliance inlets: | of O | N/A |
| | - live parts not accessible during insertion or removal | ex Or Con | N/A |
| Cerc | Requirement not applicable to appliance inlets complying with IEC 60320-1 | | N/A |
| | - connector can be inserted without difficulty | Or Car | N/A |
| 0 | - the appliance is not supported by the connector | OV' GOT | N/A |
| \Diamond | - not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless | at Oli cet | N/A |
| -er | the supply cord is unlikely to touch such metal parts | Co x Or co | N/A |
| 25.23 | Interconnection cords comply with the requirements for the supply cord, except that: | Or or | N/A |
| Or. | - the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11 | O' COL O | N/A |
| | - the thickness of the insulation may be reduced | x O' OF | N/A |
| it of | - for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met | Cer X Or Cer | N/A |
| V - 0 | 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 | Dr. Cer | N/A |
| 25.25 | Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet. | cert of cert | N/A |
| Cert | Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083 | O' Get O' | N/A |
| 26 | TERMINALS FOR EXTERNAL CONDUCTORS | | N/A |
| 26.1 | Appliances provided with terminals or equally effective devices for connection of external conductors | is of cost | N/A |
| , C | Terminals only accessible after removal of a non-detachable cover, except | Carr Or Carr | N/A |
| Co | for class III appliances that do not contain live parts | | N/A |
| Dr. Co | 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 | Or Car | N/A |

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| Clause | Requirement | Remark | Result |
|-------------------|--|------------------|---|
| 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 | Or Cer or | N/A |
| | the connections are soldered | 7 70 | N/A |
| × | Screws and nuts not used to fix any other component, except | A Direction | N/A |
| Cert | internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors | YOU AND AND | N/A |
| Or. Co | If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless | Or Cert | N/A |
| , _o ř. | 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 | Cert Olicert | N/A |
| 6.3 | 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 | Orice Cer. Or | N/A |
| \Diamond | Terminals fixed so that when the clamping means is tighte | ned or loosened: | \\ \frac{1}{2} \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| · · | - the terminal does not become loose | | N/A |
| X | - internal wiring is not subjected to stress | | N/A |
| ,00 | - neither clearances nor creepage distances are reduced below the values in clause 29 |) .cor x 0 | N/A |
| OL: | 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): | Or Cogr | N/A |
| ~ | No deep or sharp indentations of the conductors | at Or Con | 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 | Orceit Orc | N/A |
| OL | so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened | e O' Get | N/A |
| 6.5 | 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 | Cett Orcet | N/A |
| C C | Stranded conductor test, 8 mm insulation removed | OV ex O | N/A |
| OV | No contact between live parts and accessible metal parts | V | N/A |

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| | EN 60335-1 | | + |
|-----------------|--|------------------------|--------|
| Clause | Requirement | Remark | Result |
| - OF | | 0 6 | 35 |
| Cert | for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only | Orice, Cay | N/A |
| 26.6 | Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²) | er dr cer | N/A |
| Cert | 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 | Or Cor | N/A |
| 26.8 | Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other | ex di cer | N/A |
| 26.9 | Terminals of the pillar type constructed and located as specified | Cott. Or Co | N/A |
| 26.10 | Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless | Q | N/A |
| OL | conductors ends fitted with means suitable for screw terminals | x Or cer | N/A |
| , N | 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 |
| OV. Col | For class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone | Original Contraction | N/A |
| o ^{it} | 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 | Cert Dice | N/A |
| 27 | PROVISION FOR EARTHING | | ,Co |
| 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 | No earthing | N/A |
| , | Earthing terminals and earthing contacts not connected to the neutral terminal | or or ost | N/A |
| Cert. | Class 0, II and III appliances have no provision for protective earthing | Class III construction | N/A |
| Or. Co. | Class II appliances and class III appliances can incorporate an earth for functional purposes | Or Car | N/A |
| ~ | Safety extra-low voltage circuits not earthed, unless | 0 60 | N/A |

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| Clause | Requirement | Remark | Result |
|-------------------|--|-------------|--------|
| 05 | | | -01 |
| ×. | protective extra-low voltage circuits | COL 3 | N/A |
| 27.2 | Clamping means of earthing terminals adequately secured against accidental loosening | Or Copy | N/A |
| × Or | Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2,5 to 6 mm², and | er Dr. Co | N/A |
| | do not provide earthing continuity between different parts of the appliance, and | Cott Or | N/A |
| .0 | conductors cannot be loosened without the aid of a tool | | N/A |
| Or.C. | Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes | Dr. Car | 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 | Cert OV. Ce | N/A |
| Or. Co. | For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage | Or Cert | N/A |
| ζ. Ον | Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes | st Otionset | N/A |
| 27.4 | No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal | Ticer Offi | N/A |
| Q. C. | Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion | Dr. Car | N/A |
| ×. | If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm | cer or cer | N/A |
| ,ce ^{tt} | Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure | Oricett Or | N/A |
| Or Or. | 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 | OL COR | N/A |
| | Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes | Cott | N/A |
| 7.5 | Low resistance of connection between earthing terminal | N at O | N/A |

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| Clause | Requirement | Remark | Result |
|-------------------|---|----------------------|--------|
| Siause | requirement | Remark | rtesun |
| Or Cett | 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 | Orices orices | N/A |
| ζ. Ο\ | Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes | at Dirocat | N/A |
| , co ^K | Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω) | See X Die | N/A |
| 27.6 | The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances. | | N/A |
| 0 | They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit | ok Oli cet | N/A |
| -jer Ceir | Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes | Solver of Co | N/A |
| 28 | SCREWS AND CONNECTIONS | | Po |
| 28.1 | Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses | x Or cet | N/A |
| ×. | Screws not of soft metal liable to creep, such as zinc or aluminium | of Or Cor | P |
| Cert | Diameter of screws of insulating material min. 3 mm | | / N/A |
| Ç | Screws of insulating material not used for any electrical connections or connections providing earthing continuity | Orice Cate Or | N/A |
| 0, | Screws used for electrical connections or connections providing earthing continuity screwed into metal | Or Cost | N/A |
| -,e ^K | Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation | | N/A |
| Or. Col | 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 | Oriceit Or | N/A |
| x | For screws and nuts; torque-test as specified in table 14 | (see appended table) | Р |
| 28.2 | Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless | Y.Cox. Dr. Cox. | N/A |
| OV | there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material | Q . Co. | N/A |

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| | EN 60335-1 | | Ο. |
|------------------|---|-------------------------------|--------|
| Clause | Requirement | Remark | Result |
| - P | This way imposed does not awall to all atrical compactions | in aircuits of appliances for | NI/A |
| Cert | This requirement does not apply to electrical connections which: | in circuits of appliances for | N/A |
| Or C | - 30.2.2 is applicable and that carry a current not exceeding 0,5 A | OLICE CONT. | N/A |
| ×. | - 30.2.3 is applicable and that carry a current not exceeding 0,2 A | st of cet | N/A |
| 28.3 | Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together | Cer » Or Cer | N/A |
| , Co | 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 |
| Q' | Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer | Or Coll | N/A |
| - e ^x | Thread-cutting, thread rolling and space threaded screws providing earthing continuity provided it is not necessary t | | N/A |
| -0,1 | - in normal use, | , ov | N/A |
| 2,0 | - during user maintenance, | Dr. Car | N/A |
| Or Olive | - when replacing a supply cord having a type X attachment, or | O COK | N/A |
| | - during installation | ex O Co | N/A |
| | At least two screws being used for each connection providing earthing continuity, unless | Cet Or Cet | N/A |
| , Co | the screw forms a thread having a length of at least half the diameter of the screw | Dr. Col. | 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 | O', Co | N/A |
| - 0 ^K | This requirement does not apply to screws in the earthing circuit if at least two screws are used, or | | N/A |
| | if an alternative earthing circuit is provided | Con OV | N/A |
| Dr.Co | Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion | Dr. Celt | N/A |
| 29 | CLEARANCES, CREEPAGE DISTANCES AND SOLID I | NSULATION | N/A |
| × . | Clearances, creepage distances and solid insulation withstand electrical stress | Class III Construction | N/A |
| , cer | For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies |) Cert of | N/A |
| OL | The microenvironment is pollution degree 1 under type 1 protection | Orio Cieta | N/A |

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| . 0 | EN 60335-1 | | V |
|----------|--|----------------------|--------|
| Clause | Requirement | Remark | Result |
| Corr | 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 | Original Original | N/A |
| | These values apply to functional, basic, supplementary and reinforced insulation | ON COL | N/A |
| 29.1 | Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless | (see appended table) | N/A |
| Col | for basic insulation and functional insulation they comply with the impulse voltage test of clause 14 | | N/A |
| 97.0 | However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500 V and above are increased by 0,5 mm and the impulse voltage test is not applicable | - ok Or Cer | N/A |
| ger Cerr | 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 | Orcest Orce | N/A |
| | Impulse voltage test is not applicable: | ON COL | N/A |
| 0. | - when the microenvironment is pollution degree 3, or | x Oli cell | N/A |
| × | - for basic insulation of class 0 and class 01 appliances | | N/A |
| cer | - to appliances intended for use at altitudes exceeding 2 000 m | | N/A |
| · - 0 | Appliances are in overvoltage category II | | N/A |
| OL. | A force of 2 N is applied to bare conductors, other than heating elements | Or cor | N/A |
| | A force of 30 N is applied to accessible surfaces | | N/A |
| 29.1.1 | Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage | Cat Arice | N/A |
| OV, Co. | The values of table 16 or the impulse voltage test of clause 14 are applicable | (see appended table) | N/A |
| OL. | Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1 | or Or Coy | N/A |
| C OK | Lacquered conductors of windings considered to be bare conductors | Carr Of Carr | N/A |
| 29.1.2 | Clearances of supplementary insulation not less than those specified for basic insulation in table 16: | (see appended table) | N/A |
| 29.1.3 | Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage | (see appended table) | N/A |

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| Clause | Requirement | Remark | Result |
|------------------|--|---------------------------------------|--------|
| Clause | Requirement | Remark | Result |
| Or Cert | 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 | Orices Orice | N/A |
| 29.1.4 | Clearances for functional insulation are the largest values | determined from: | N/A |
| , | - table 16 based on the rated impulse voltage: | (see appended table) | N/A |
| ceit | - table F.7a in IEC 60664-1, frequency not exceeding 30 kHz | Co ex Or | N/A |
| Y O | - clause 4 of IEC 60664-4, frequency exceeding 30 kHz | | N/A |
| OV. | If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless | Q ¹ Ce ^x | N/A |
| \Diamond | the microenvironment is pollution degree 3, or | × OV cor | N/A |
| se ^k | the distances can be affected by wear, distortion, movement of the parts or during assembly | | N/A |
| Oriceir | However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited | Dr. Cott | N/A |
| OV. | Lacquered conductors of windings considered to be bare conductors | * Or Cer | N/A |
| ,X | However, clearances at crossover points are not measured | Car | N/A |
| , Cox | Clearance between surfaces of PTC heating elements may be reduced to 1 mm | Ti ceit | N/A |
| 29.1.5 | Appliances having higher working voltages than rated volt insulation are the largest values determined from: | age, clearances for basic | 0,0 |
| Q) | - table 16 based on the rated impulse voltage: | , , , , , , , , , , , , , , , , , , , | N/A |
| - o ^X | - table F.7a in IEC 60664-1, frequency not exceeding 30 kHz | Corr | N/A |
| , č | - clause 4 of IEC 60664-4, frequency exceeding 30 kHz | Con Division | N/A |
| Dr.Co | 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 | Or Cer O | N/A |
| , Cott | 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 | Ticer direct | N/A |
| Orice | 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 | Or Carr | N/A |

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| Clause | Paguiroment | Remark | Result |
|----------------|--|----------------------|--------|
| Clause | Requirement | Remark | Result |
| Oricest | 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 | Oricest Orices | 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 | Cet. Or Cet. | N/A |
| 29.2 | Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree: | (see appended table) | N/A |
| Ó, | Pollution degree 2 applies, unless | OV COR | N/A |
| 0 | - precautions taken to protect the insulation; pollution degree 1 | et or cet | N/A |
| Jen Je | - insulation subjected to conductive pollution; pollution degree 3 | Ceir Or Ce | N/A |
| Or. Co. | A force of 2 N is applied to bare conductors, other than heating elements | D. Car. | N/A |
| O ^V | A force of 30 N is applied to accessible surfaces | O V | N/A |
| jt et | 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 | Cer Or Cer | N/A |
| 29.2.1 | Creepage distances of basic insulation not less than specified in table 17 | (see appended table) | N/A |
| Q). | 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: | of Original Colt | N/A |
| ger ger | 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 | Or Ceit Or Cei | N/A |
| 29.2.2 | Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or: | (see appended table) | N/A |
| | Table 2 of IEC 60664-4, as applicable | x 0 00 | N/A |
| 29.2.3 | Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or | (see appended table) | N/A |
| · | Table 2 of IEC 60664-4, as applicable | , Co, x O, | N/A |
| 29.2.4 | Creepage distances of functional insulation not less than specified in table 18 | (see appended table) | N/A |

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| | EN 60335-1 | | |
|---------|---|--------------------|--------|
| Clause | Requirement | Remark | Result |
| O'COK | 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: | Or Cett Or Ce | N/A |
| Y Or | Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited | of Original Cole | N/A |
| 29.3 | Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses | Dr. Cat. Dr. Ca | N/A |
|), Če | Compliance checked: | OV COL | N/A |
| O, | - by measurement, in accordance with 29.3.1, or | | O N/A |
| 0 | - by an electric strength test in accordance with 29.3.2, or | V Co | N/A |
| Cert | - 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 | Cert X Dr. Ce | N/A |
| Dr. Or. | - for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or | Or Cay O | N/A |
| st of | - 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 | SK OF COL | N/A |
| N.Cot | - 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 | Or Car | N/A |
| 29.3.1 | Supplementary insulation have a thickness of at least 1 mm | OV COL | N/A |
| × | Reinforced insulation have a thickness of at least 2 mm | Cet V | N/A |
| 29.3.2 | Each layer of material withstand the electric strength test of 16.3 for supplementary insulation | Cox. A Co | N/A |
| 2 | Supplementary insulation consist of at least 2 layers | Or Cell | N/A |
| Α, (| Reinforced insulation consist of at least 3 layers | Or Car | N/A |
| 29.3.3 | The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by | er O' cer | N/A |
| | the electric strength test of 16.3 | " " Or Cou | N/A |
| V. Cert | 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 | The state of the | N/A |
| 29.3.4 | Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19 | O, Co _V | N/A |

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| | EN 60335-1 | | |
|----------------|--|---|------------------|
| Clause | Requirement | Remark | Result |
| 30 | RESISTANCE TO HEAT AND FIRE | × 0 ~0 | P |
| 30.1 | External parts of non-metallic material, | Class III Construction, | P, |
| O, | parts supporting live parts, and | | N/A |
| ON | parts of thermoplastic material providing supplementary or reinforced insulation | | N/A |
| | sufficiently resistant to heat | X OV COR | Р |
| -01 | Ball-pressure test according to IEC 60695-10-2 | (Co) 1 (V) | o ^C P |
| | External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C): | (see appended table) | PX |
| e ^K | Parts supporting live parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C) | (see appended table) | N/A |
| Or Cell | Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C) | (see appended table) | N/A |
| 30.2 | Parts of non-metallic material resistant to ignition and spread of fire | it Orio Cet | O'P |
| Č. | This requirement does not apply to: | x OV con | Р |
| , cet | 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 | Dice of Dice | N/A |
| 0, | decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance | OL' Cett | N/A |
| ,eit | Compliance checked by the test of 30.2.1, and in addition: | | Р |
| COL | - for attended appliances, 30.2.2 applies | 70° × 0° | ØP. |
| 0 | - for unattended appliances, 30.2.3 applies | V . Co | N/A |
| | For appliances for remote operation, 30.2.3 applies | O. Co. | N/A |
| | For base material of printed circuit boards, 30.2.4 applies | x Or Col | Р |
| 0.2.1 | Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C | Cott | Р |
| , Con | However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or | The Care Of | N/A |
| O _V | the material is classified at least HB40 according to IEC 60695-11-10 | O' Car | N/A |
| | | / · · · · · · · · · · · · · · · · · · · | |

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| Clause | Requirement | Remark | Result |
|----------------|--|---------------------|--------|
| | | | . 1000 |
| Coly | Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF | Oricely Orice | N/A |
| 30.2.2 | Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and | ON COLUMN | P |
| , c | parts of non-metallic material within a distance of 3 mm of such connections, | | P |
| o.X | subjected to the glow-wire test of IEC 60695-2-11 | | P |
| , O | The test severity is: | Dr. Calc | P |
| OV.Co | - 750 °C, for connections carrying a current exceeding 0,5 A during normal operation | Or Cerc | P. |
| | - 650 °C, for other connections | · O CO | N/A |
| . K | Glow-wire applied to an interposed shielding material, if relevant | | N/A |
| So Cox | The glow-wire test is not carried out on parts of material cl. flammability index according to IEC 60695-2-12 of at least | | N/A |
| ON O | - 750 °C, for connections carrying a current exceeding 0,5 A during normal operation | Orice St. O | N/A |
| O. | - 650 °C, for other connections | | N/A |
| × < | The glow-wire test is also not carried out on small parts. The | nese parts are to: | N/A |
| c.ex | - comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or | Cer x O | N/A |
| , ot | - comply with the needle-flame test of annex E, or | | N/A |
| Or. | - comprise material classified as V-0 or V-1 according to IEC 60695-11-10: | Or Col | N/A |
| O _r | Glow-wire test not applicable to conditions as specified | at O' Got | N/A |
| 30.2.3 | Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2 | | N/A |
| Col | The tests are not applicable to conditions as specified: | OL BELL OF | N/A |
| 30.2.3.1 | Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and | Or Cert Or | N/A |
| × × | parts of non-metallic material, other than small parts, within a distance of 3 mm, | of Oliver | N/A |
| Cox | subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C | Since of the second | N/A |
| N. Con | Glow-wire applied to an interposed shielding material, if relevant | Or Cott | N/A |

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| Clause | Requirement | Remark | Result |
|-------------------|---|--|---------|
| 05 | | | <u></u> |
| Cert | The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C | Of Cay | N/A |
| 0.2.3.2 | Parts of non-metallic material supporting connections, and | ON COL | N/A |
| × . | parts of non-metallic material within a distance of 3 mm, | 3 th | N/A |
| | subjected to glow-wire test of IEC 60695-2-11 | Str. Or Co. | N/A |
| COL | The test severity is: | | / N/A |
| Ces | - 750 °C, for connections carrying a current exceeding 0,2 A during normal operation | O'CO | N/A |
| O, | - 650 °C, for other connections | Oli oli | N/A |
| Ø, | Glow-wire applied to an interposed shielding material, if relevant | A Or Cott | N/A |
| , et | However, the glow-wire test of 750 °C or 650 °C as approparts of material fulfilling both or either of the following class | | N/A |
| OV. | - a glow-wire ignition temperature according to IEC 60695-2-13 of at least: | St. Cog. x | N/A |
| OLI | - 775 °C, for connections carrying a current exceeding 0,2 A during normal operation | × Or cox | N/A |
| | - 675 °C, for other connections | | N/A |
| cet | - a glow-wire flammability index according to IEC 60695-2-12 of at least: | , cor x 0, co | N/A |
| Col | - 750 °C, for connections carrying a current exceeding 0,2 A during normal operation | Dr. Coll | N/A |
| O, | - 650 °C, for other connections | OV. OK | N/A |
| O) | The glow-wire test is also not carried out on small parts. T | hese parts are to: | N/A |
| , o th | - comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or | Cert Original | N/A |
| Or, Cox | - comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or | Original Contraction | N/A |
| | - comply with the needle-flame test of annex E, or | D, Co, | N/A |
| | - comprise material classified as V-0 or V-1 according to IEC 60695-11-10 | K O' CO' | N/A |
| Cott. | The consequential needle-flame test of annex E applied to encroach within the vertical cylinder placed above the cen on top of the non-metallic parts supporting current-carrying non-metallic material within a distance of 3 mm of such co those: | tre of the connection zone and g connections, and parts of | N/A |

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| | EN 60335-1 | | |
|------------------|--|--|--------|
| Clause | Requirement | Remark | Result |
| Ser Corr | - parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or | Original Origina Origina Origina Origina Origina Origina Origina Origina Or | N/A |
| 0, 0, | - parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or | The Cape of Cape | N/A |
| c ott | - small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or | Cer x Or Cer | N/A |
| Cer | - small parts for which the needle-flame test of annex E was applied, or | | N/A |
| Q) | - small parts for which a material classification of V-0 or V-1 was applied | O' Car | N/A |
| ~ | However, the consequential needle-flame test is not carrier including small parts, within the cylinder that are: | ed out on non-metallic parts, | N/A |
| , ext | - parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or | 50 × 0 | N/A |
| OV. C | - parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or | Original Control | N/A |
| 0, | - parts shielded by a flame barrier that meets the needle-flame test of annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10 | it of cert | N/A |
| 0.2.4 | Base material of printed circuit boards subjected to the needle-flame test of annex E | | N/A |
| - 0 ¹ | Test not applicable to conditions as specified: | Y CO X OV | N/A |
| 1 | RESISTANCE TO RUSTING | | VP |
| O, | Relevant ferrous parts adequately protected against rusting | | P |
| х. | Tests specified in part 2 when necessary | - et V , C° | N/A |
| 2 | RADIATION, TOXICITY AND SIMILAR HAZARDS | | |
| Or. Co. | Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use | Oricet Or | Ç P |
| 0 | Compliance is checked by the limits or tests specified in part 2, if relevant | k Orio | N/A |
| | ANNEX A (INFORMATIVE) ROUTINE TESTS | | N/A |
| Co. | Description of routine tests to be carried out by the manufacturer | | N/A |
| 3 | ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES | | N/A |

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| | EN 60335-1 | | T |
|--------------------------|---|--|------------|
| Clause | Requirement | Remark | Result |
| - Cert | The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance | Or Cake Or Ca | N/A |
| φ, | This annex does not apply to battery chargers | Or Car | N/A |
| O, | Three forms of construction covered: | v O' -o' | |
| ceit , | 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 | Not directly connected to the mains | N/A |
| 01.Ce | 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 | Dr. Cert | N/A |
| -je ^{jt} | 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 | Cert Orices | N/A |
| 3.1.9 | Appliance operated under the following conditions: | Or Col | ~\ <u></u> |
| x. < | the appliance, supplied by its fully charged battery, operated as specified in relevant part 2 | ir Or Copy | N/A |
| , ceri | the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate | Vicet Orice | N/A |
| Ol. Co. | - 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 | Or Cert | N/A |
| je ^{řt} | - 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 | Con Original Original | N/A |
| 3.6.2 | Part to be removed in order to discard the battery is not considered to be detachable | ON COST | N/A |
| i.B.101 | Appliances supplied from the supply mains tested as specified for motor-operated appliances | ir or con | N/A |
| 1 ,co ^{rt} , | Battery compartment for batteries intended to be replaced by the user, marked with battery voltage and polarity of the terminals | It must be replaced by the manufacturer or its designated professional | N/A |
| Ol. Cer | The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006 | Orio Cerr | N/A |

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| EN 60335-1 | | | |
|------------|---|--|--------|
| Clause | Requirement | Remark | Result |
| Or Cert | 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 | Orices or Orice | N/A |
| OV | use only with <model designation=""> supply unit:</model> | ~ ~ ~ | N/A |
| 7.6 | Symbols 60417-5005 and IEC 60417-5006 | St. O. V. | N/A |
| 7.12 | The instructions give information regarding charging | See user manual | N/A |
| Cert ce | The instructions for appliances incorporating batteries intended to be replaced by the user includes required information | It must be replaced by the manufacturer or its designated professional | N/A |
| Or. | Details about how to remove batteries containing materials hazardous to the environment given | Di Car | N/A |
| , () | Instructions for appliances containing non user-replaceabl substance of the following: | e batteries state the | N/A |
| Ser air | This appliance contains batteries that are only replaceable by skilled persons | Cet. Of Ce | N/A |
| Or. Co | Instructions for appliances containing non-replaceable bat substance of the following: | teries shall state the | N/A |
| OL | This appliance contains batteries that are non-replaceable | x S' ce ^x | N/A |
| , cor | For appliances intending to be supplied from a detachable of recharging the battery, the type reference of the detachalong with the following: | | N/A |
| V. C. 8 | WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance | O'CON O'CON | N/A |
| 0 | If the symbol for detachable supply unit is used, its meaning is explained | D. Co. | N/A |
| 7.15 | Markings placed on the part of the appliance connected to the supply mains | CSC X OV CS | N/A |
| Ceix | The type reference of the detachable supply unit is placed in close proximity to the symbol | Or Care Or | N/A |
| 3.2 | 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 | It must be replaced by the manufacturer or its designated professional | N/A |
| C CA | If the appliance can be operated without batteries, double or reinforced insulation required | Cay Or Cay | N/A |
| 11.7 | The battery is charged for the period stated in the instructions or 24 h | See user manual | 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) | (See appendix table 11.8) | N/A |

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| . 0 | EN 60335-1 | <u> </u> | O. |
|----------|---|--|--------|
| Clause | Requirement | Remark | Result |
| -05 | | 5 x 6 20 | |
| | If no limit specified, the temperature rise does not exceed 20 K; measured (K) | The street of the | N/A |
| 19.1 | Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103 | Orio Car | N/A |
| 19.10 | Not applicable | x Or cert | N/A |
| 19.B.101 | Appliances supplied at rated voltage for 168 h, the battery being continually charged | St. Or Cor. | 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, | Not removed without the aid of a tool, | 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 | It must be replaced by the manufacturer or its designated professional | N/A |
| 19.13 | The battery does not rupture or ignite | Co x OV ce | N/A |
| 21.B.101 | Appliances having pins for insertion into socket-outlets have adequate mechanical strength | Original Principles | N/A |
| DY C | Part of the appliance incorporating the pins subjected to the IEC 60068-2-31, the number of falls being: | ne free fall test, procedure 2, of | N/A |
| | - 100, if the mass of the part does not exceed 250 g (g): | x OV COL | N/A |
| , T | - 50, if the mass of the part exceeds 250 g | x Or cet | N/A |
| cert | 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 | Orio Car | 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 | - et Or Cer | N/A |
| 30.2 | For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies | , Cot x OY | N/A |
| N, | For other parts, 30.2.2 applies | Q, Co, ' | N/A |
| С | ANNEX C (NORMATIVE) AGEING TEST ON MOTORS | | Or. |
| , | Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding | Set OLICEK | N/A |
| ,Co, | Test conditions as specified | | N/A |
| D | ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS | | N/A |

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| Olavia | EN 60335-1 | Developed | Daguit |
|--------------------------|---|---|--------|
| Clause | Requirement | Remark | Result |
| Corr | Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard | Dr. Cetr Dr. Ce | N/A |
| Ó | Test conditions as specified | Or cer | N/A |
| E | ANNEX E (NORMATIVE) NEEDLE-FLAME TEST | | N/A |
| | Needle-flame test carried out in accordance with IEC 6069 modifications: | 95-11-5, with the following | N/A |
| 7.00 | Severities | ov cert | N/A |
| Or.Co | The duration of application of the test flame is 30 s ± 1 s | Evaluation as part of certified power adaptor | N/A |
| 9 0 | Test procedure | X. X. | N/A |
| 9.1 - 8 th | The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1 | Cer Or Ce | N/A |
| 9.2 | The first paragraph does not apply | | N/A |
| OF | If possible, the flame is applied at least 10 mm from a corner | O'CO | N/A |
| 9.3 | The test is carried out on one specimen | × 0 × 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | N/A |
| , c | If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test | Cett Direct | N/A |
| 110 | Evaluation of test results | Dr. Col. | N/A |
| Ç | The duration of burning not exceeding 30 s | ON COL | N/A |
| 0, | However, for printed circuit boards, the duration of burning not exceeding 15 s | QY 58K | N/A |
| F | ANNEX F (NORMATIVE) CAPACITORS | | N/A |
| Corr | Capacitors likely to be permanently subjected to the supplinterference suppression or voltage dividing, comply with t IEC 60384-14, with the following modifications: | | N/A |
| 1.5 | Terms and definitions | ON COL | N/A |
| 1.5.3 | Class X capacitors tested according to subclass X2 | Evaluation as part of certified power adaptor | N/A |
| 1.5.4 | This subclause is applicable | of Open | N/A |
| 1.6 | Marking | So x Or c | N/A |
| , 3 | Items a) and b) are applicable | | N/A |
| 3.4 | Approval testing | Or Call | N/A |
| 3.4.3.2 | Table 3 is applicable as described | OV - or | N/A |

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| Clause | EN 60335-1 Requirement | Remark | Result |
|------------|---|--|--------|
| Clause | Requirement | Remark | Result |
| 4.1 | Visual examination and check of dimensions | | N/A |
| Č. | This subclause is applicable | OV COR | N/A |
| 1.2 | Electrical tests | OV - OFF | N/A |
| 1.2.1 | This subclause is applicable | | N/A |
| 1.2.5 | This subclause is applicable | \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | N/A |
| 1.2.5.2 | Only table 11 is applicable | -01/2 Ox | N/A |
| Cer | Values for test A apply | | N/A |
| Ce | However, for capacitors in heating appliances the values for test B or C apply | \$1.00 CON. | N/A |
| 1.12 | Damp heat, steady state | ON COR | N/A |
| \Diamond | This subclause is applicable | | N/A |
| 8 | Only insulation resistance and voltage proof are checked | Colt V | N/A |
| 1.13 | Impulse voltage | CONTRACTOR OF CO | N/A |
| Col | This subclause is applicable | OV. CAT | N/A |
| 1.14 | Endurance | | N/A |
| Or | Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable | x SY CO | N/A |
| 1.14.7 | Only insulation resistance and voltage proof are checked | · · · · · · · · · · · · · · · · · · · | N/A |
| 1 | No visible damage | Con Avi | ∴ N/A |
| 1.17 | Passive flammability test | N Cell | N/A |
| , Co | This subclause is applicable | ON COL | N/A |
| 4.18 | Active flammability test | OL' GIT | N/A |
| Ó | This subclause is applicable | | N/A |
| G | ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS | | N/A |
| Cor. | The following modifications to this standard are applicable transformers: | for safety isolating | N/A |
| OV (| Marking and instructions | | N/A |
| 7.1 | Transformers for specific use marked with: | 7 Co X | N/A |
| × - | - name, trademark or identification mark of the manufacturer or responsible vendor: | × 0 - 6 ^t | N/A |
| a.K. | - model or type reference | Cor. | N/A |
| 17 | Overload protection of transformers and associated circuit | s con | N/A |
| OV. C0 | Fail-safe transformers comply with subclause 15.5 of IEC 61558-1 | ON SON X | N/A |
| 22 | Construction | · 0 00 | N/A |

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| <u> </u> | EN 60335-1 | | |
|---------------------|---|--|--------|
| Clause | Requirement | Remark | Result |
| -05 | | | |
| Corr | Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable | Tico, at Original | 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 | × Or cor | N/A |
| ji ori | For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances | Cst. Dr. Cst. | N/A |
| V. Cer | For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed | Dr. Cert | N/A |
| -5 ^{gh} | 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 | Cett Dr. Cett | N/A |
| 1 | ANNEX H (NORMATIVE) SWITCHES | | N/A |
| OV | Switches comply with the following clauses of IEC 61058- | 1, as modified below: | N/A |
| χ | The tests of IEC 61058-1 carried out under the conditions occurring in the appliance | The state of the s | N/A |
| Cert | Before being tested, switches are operated 20 times without load | | N/A |
| 3 -0 | Marking and documentation | , Co x OV | N/A |
| 01/ | Switches are not required to be marked | O. Co. | N/A |
| 0) | However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference | S. D. Co. | N/A |
| 3 | Mechanism | O & O 60 | N/A |
| - oth | The tests may be carried out on a separate sample | , Co x | N/A |
| 5 | Insulation resistance and dielectric strength | Or Co. | N/A |
| 5.1 | Not applicable | OV COL | N/A |
| 5.2 | Not applicable | x 0 -0 -0 - | N/A |
| 5.3 | Applicable for full disconnection and micro-disconnection | of the same | N/A |
| 7 & | Endurance | Col. | ∑ N/A |
| Co | Compliance is checked on three separate appliances or switches | V. Cer Y. Ov. | N/A |
| OLI | For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless | OF ST | N/A |

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| 01 | EN 60335-1 | | T 5 " |
|-----------|--|--|--------|
| Clause | Requirement | Remark | Result |
| - Service | otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335 | 7.00 × 07.00 | N/A |
| Or: | Switches for operation under no load and which can be operated only by a tool, and | A CO | N/A |
| × | switches operated by hand that are interlocked so that they cannot be operated under load, | ir Or Cor | N/A |
| | are not subjected to the tests | Sy Or Co. | N/A |
| Cerc | However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation | 7.00 Set OV | N/A |
| ǰ | Subclauses 17.2.2 and 17.2.5.2 not applicable | Or coll | N/A |
| 9, | The ambient temperature during the test is that occurring in the appliance during the test of clause 11 in IEC 60335-1 | × Ov cert | N/A |
| get at | The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K) | Cont. Original | N/A |
| 0 | Clearances, creepage distances, solid insulation and coat assemblies | ings of rigid printed board | N/A |
| V. Or. | This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24 | er of cer | N/A |
| Cert | Clause 20 is applicable to clearances across full disconnection and micro-disconnection | | N/A |
| Or. Co | It is also applicable to creepage distances for functional insulation, across full disconnection and microdisconnection, as stated in Table 24 | Original Origina Origina Origina Origina Origina Origina Origina Origina Or | N/A |
| | ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADE VOLTAGE OF THE APPLIANCE | EQUATE FOR THE RATED | N/A |
| Cot. | The following modifications to this standard are applicable insulation that is inadequate for the rated voltage of the applicable. | | N/A |
| OV (| Protection against access to live parts | V 00 x 0 | N/A |
| .1 | Metal parts of the motor are considered to be bare live parts | * 0, -0, -0, -0, -0, -0, -0, -0, -0, -0, | N/A |
| 1 | Heating | 30° 20° 30° | N/A |
| 1.3 | The temperature rise of the body of the motor is determined instead of the temperature rise of the windings | Corr Or Cor | N/A |
| 1.8 | 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 | Or Care Or | N/A |

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| Clause | | | |
|--------------------------|--|---------------------------------------|--------|
| Clause | Requirement | Remark | Result |
| 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 | DY Copy | N/A |
| 19 | Abnormal operation | O, Co, X | N/A |
| 19.1 | The tests of 19.7 to 19.9 are not carried out | of Open | N/A |
| 19.1.101 | Appliance operated at rated voltage with each of the follo | owing fault conditions: | N/A |
| Cert | -short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit | Dico ok Ov | N/A |
| Co. | - short circuit of each diode of the rectifier | | N/A |
| Or | - open circuit of the supply to the motor | 200 | N/A |
| 0 | - open circuit of any parallel resistor, the motor being in operation | X X X | N/A |
| ce ^{it} | 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 | ON COL | N/A |
| Š. | Compliance checked by the tests specified for double and reinforced insulation | Cor. Or Cor. | N/A |
| J | ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS | | N/A |
| OL. | Testing of protective coatings of printed circuit boards ca IEC 60664-3 with the following modifications: | rried out in accordance with | N/A |
| 5.7 | Conditioning of the test specimens | | N/A |
| -e ^X | When production samples are used, three samples of the printed circuit board are tested | e Uncoated printed circuit board used | N/A |
| 5.7.1 | Cold | , Co. x | N/A |
| 2 | The test is carried out at -25 °C | Or Col | N/A |
| 5.7.3 | Rapid change of temperature | Or Cert | N/A |
| $\Diamond_{\mathcal{F}}$ | Severity 1 is specified | × OV -ex | N/A |
| 5.9 | Additional tests | | N/A |
| X | This subclause is not applicable | Cell Co | ∠ N/A |
| ‹ | ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES | | N/A |
| | The information on overvoltage categories is extracted | O, Co, | N/A |

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| | EN 60335-1 | | O., |
|--------|--|---------------------|--------|
| Clause | Requirement | Remark | Result |
| -05 | V V V V V V V V V V V V V V V V V V V | | |
| Ceit | Overvoltage category is a numeral defining a transient overvoltage condition | N.Co. N. Or. | N/A |
| Q), | Equipment of overvoltage category IV is for use at the origin of the installation | OLO GET | N/A |
| | Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements | ex Original Cex | N/A |
| , Ce | Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation | Dr. Cett Dr. | N/A |
| Q, | If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies | Or Cer | N/A |
| -jeřt | Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level | Cert Dirice | N/A |
| - | ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANC DISTANCES | CES AND CREEPAGE | N/A |
| х. | Information for the determination of clearances and creepage distances | er or cer | N/A |
| М | ANNEX M (NORMATIVE) POLLUTION DEGREE | | P |
| , ce | The information on pollution degrees is extracted from IEC 60664-1 | | P |
| Or | Pollution | | O P |
| | The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment | | P |
| -01 | Means may be provided to reduce pollution at the insulation by effective enclosures or similar | Cox X Dr.Co | P |
| 01,0 | Minimum clearances specified where pollution may be present in the microenvironment | O Car | P |
| Or | Degrees of pollution in the microenvironment | V | P |
| × | For evaluating creepage distances, the following degrees microenvironment are established: | of pollution in the | N/A |
| Cett | - pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence | Tices x Orion | N/A |
| OV. | pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected | | or P |

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| | EN 60335-1 | | |
|-------------------|---|-----------------------------|--------|
| Clause | Requirement | Remark | Result |
| -ge ⁿ | - pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected | Dr. Cox Dr. Cox | N/A |
| Oh. | - pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow | ON COLL | N/A |
| N | ANNEX N (NORMATIVE) PROOF TRACKING TEST | | N/A |
| cett. | The proof tracking test is carried out in accordance with IEC modifications: | C 60112 with the following | N/A |
| Cer | Test apparatus | | N/A |
| 7.3 | Test solutions | × 50° × | N/A |
| 0 | Test solution A is used | V. Co. X | N/A |
| 0 | Determination of proof tracking index (PTI) | Col | N/A |
| 0.1 | Procedure | | N/A |
| - O'X | The proof voltage is 100 V, 175 V, 400 V or 600 V: | | Ň/A |
| | The test is carried out on five specimens | Q CO 3 | N/A |
| OV.C | In case of doubt, additional test with proof voltage reduced by 25 V, the number of drops increased to 100 | Or Car | N/A |
| 0.2 | Report | , | N/A |
| - C.T. | The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V | Cox Ox Cox | N/A |
|) | ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF clause | e 30 | N/A |
| O), | Description of tests for determination of resistance to heat and fire | Or. Car | N/A |
| | ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDAR IN WARM DAMP EQUABLE CLIMATES | RD TO APPLIANCES USED | N/A |
| Or Cert | Modifications applicable for class 0 and 01 appliances having 150 V, intended to be used in countries having a warm damare marked "with symbol IEC 60417-6332 (2015-06) | | Ň/A |
| OL. | Modifications may also be applied to class 1 appliances have exceeding 150 V, intended to be used in countries having a and that are marked IEC 60417-6332 (2015-06), if liable to mains that excludes the protective earthing conductor | a warm damp equable climate | N/A |
| .7 Cert | The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C | Co or Ori | ζ N/A |
| í (e ^s | The appliance marked with the letters IEC 60417-6332 (2015-06) | 7,0° 2,4 0° | N/A |

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| . 0 | EN 60335-1 | , , , , , , , , , , , , , , , , , , , | |
|------------------|--|---------------------------------------|------------|
| Clause | Requirement | Remark | Result |
| 7.12 | The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA | Or Carr Or Ca | N/A |
| Or. | The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries | * Or Car | N/A |
| ,X | If symbol IEC 60417-6332 (2015-06) is used, its meaning shall be explained. | Car Or Car | N/A |
| 11.8 | The values of Table 3 are reduced by 15 K | | N/A |
| 13.2 | The leakage current for class I appliances not exceeding 0,5 mA | Di Cat | N/A |
| 15.3 | The value of t is 37 °C | ON CSE | N/A |
| 16.2 | The leakage current for class I appliances not exceeding 0,5 mA (mA): | - ot Ov Cot | N/A |
| 19.13 | The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3 | Cer Or Ce | N/A |
| Q | ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF EL | ECTRONIC CIRCUITS | , <u> </u> |
| ON | Description of tests for appliances incorporating electronic | circuits | N/A |
| R | ANNEX R (NORMATIVE) SOFTWARE EVALUATION | | N/A |
| Ce ^{it} | Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex | Tice of Ori | N/A |
| R.1 | Programmable electronic circuits using software | | N/A |
| ce ^ř | Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard | Cert Original | N/A |
| R.2 | Requirements for the architecture | OV COR | N/A |
| Sk × | Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety-related segments of the software | or dricer | N/A |
| R.2.1.1 | Programmable electronic circuits requiring software incorp the fault/error conditions specified in table R.2 have one of | | N/A |
| | - single channel with periodic self-test and monitoring | Q Cal | N/A |
| | - dual channel (homogenous) with comparison | OV -01 | N/A |

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| Clause | Requirement | Remark | Result |
|---------|--|--|--------|
| -05 | | | |
| O AX | - dual channel (diverse) with comparison | CONT. | N/A |
| OV.Co | Programmable electronic circuits requiring software incorp the fault/error conditions specified in table R.1 have one of | | N/A |
| OV. | - single channel with functional test | Č. Č. | N/A |
| | - single channel with periodic self-test | X O CON | N/A |
| , C | - dual channel without comparison | a or con | N/A |
| R.2.2 | Measures to control faults/errors | , CO x OV | N/A |
| R.2.2.1 | When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area | | N/A |
| R.2.2.2 | Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison | Cet Di Cet | N/A |
| R.2.2.3 | For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths | St. Officer. | N/A |
| R.2.2.4 | For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate | Micery Of Cert | N/A |
| R.2.2.5 | For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired | Cay Or Cay | N/A |
| R.2.2.6 | The software is referenced to relevant parts of the operating sequence and the associated hardware functions | Original St. Origi | N/A |
| R.2.2.7 | Labels used for memory locations are unique | V | N/A |
| R.2.2.8 | The software is protected from user alteration of safety-related segments and data | Y O' CON | N/A |
| R.2.2.9 | Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired | Cot St. | N/A |
| R.3 | Measures to avoid errors | OV COL | N/A |
| R.3.1 | General | | N/A |

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| | EN 60335-1 | » × | |
|-----------|---|--|--------|
| Clause | Requirement | Remark | Result |
| Cert. | For programmable electronic circuits with functions requimeasures to control the fault/error conditions specified in measures to avoid systematic fault in the software are approximately | table R.1 or R.2, the following | N/A |
| 5. Oh. | Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1 | X | N/A |
| R.3.2 | Specification | CONT. | N/A |
| R.3.2.1 | Software safety requirements: | Software Id: | N/A |
| N Cel | The specification of the software safety requirements includes the descriptions listed | Orio Car | N/A |
| R.3.2.2 | Software architecture | x OV COR | N/A |
| R.3.2.2.1 | The specification of the software architecture includes the aspects listed | Document ref. No: | N/A |
| | - techniques and measures to control software faults/error (refer to R.2.2); | S CONT OF CO | |
| | - interactions between hardware and software; | Or Cott | ,00 |
| | - partitioning into modules and their allocation to the specified safety functions; | Oric Cent | Orice |
| | - hierarchy and call structure of the modules (control flow); | The Open Column | , |
| | - interrupt handling; | of the contraction | |
| | - data flow and restrictions on data access; | Co. * Or. | or a |
| | - architecture and storage of data; | Dr Coll Ari | |
| | - time-based dependencies of sequences and data | Oli cell | Co |
| R.3.2.2.2 | The architecture specification is validated against the specification of the software safety requirements by stationallysis | c drings | N/A |
| R.3.2.3 | Module design and coding | Cel N | N/A |
| R.3.2.3.1 | Based on the architecture design, software is suitably refined into modules | Y Contract A A A A A A A A A A A A A A A A A A A | N/A |
| Dr.C | Software module design and coding is implemented in a way that is traceable to the software architecture and requirements | Dr.Co | N/A |
| R.3.2.3.2 | Software code is structured | Ex Or Cor | N/A |
| R.3.2.3.3 | Coded software is validated against the module specification by static analysis | Cet OV Cet | N/A |
| Y Co. | The module specification is validated against the architecture specification by static analysis | ON TOOL Y ON | N/A |
| R.3.3.3 | Software validation | 0, 00, | N/A |

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| 0 | EN 60335-1 | ^ | OV |
|----------------------|--|-------------|--------|
| Clause | Requirement | Remark | Result |
| -01 | | , N -0 | |
| | The software is validated with reference to the requirements of the software safety requirements specification | Dr. Cert | N/A |
| ,0 | Compliance is checked by simulation of: | Or Calc | N/A |
| \Diamond_{λ} | - input signals present during normal operation | x Or cor | N/A |
| , K | - anticipated occurrences | of a street | N/A |
| X | - undesired conditions requiring system action | Cot V | N/A |

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| | C. C. | O Coll | EN 60335-1 | c.o.K | O Cert | x 0 ¹ |
|-----------|-------------------|------------------|----------------|------------------|------------------|------------------|
| Clause | Requirement | Q [*] C | | Rema | ark 🗸 🧷 | Result |
| -05 | , jo | . 0 | -01 | ,0 | x 0 ^V | -0 |
| 10.1 | TABLE: Power | input deviation | | | | N/A |
| Input de | eviation of/at: | P rated (W) | P measured (W) | dP | Required dP | Remark |
| V , C | - _X < | Y Get | 00 | ₂ - < |) (| |
| Supplemen | tary information: | 0 - 0° | · O , | <i>y</i> | ON -OT | ▽ |

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| Р | ~ | | | | nt deviation | TABLE : Curre | 10.2 |
|------|------|-------------|--------------|----------------|--------------|------------------------------|----------------|
| mark | Rem | Required Di | Di(measured) | I measured (A) | I rated (A) | deviation of/at: | Current d |
| P® | Ō, É | +20% | -3.89% | 1.73 | 1.8 | 29VDC | 2 ² |
| | Δ), | +20% | -3.89% | 1.73 | 00 | 29VDC entary information: | |

| 11.8 | TABLE: Heating test, thermo | couples | , contraction of the contraction | O'V | Cox | P |
|-------------|--|---------|--|----------------|-----------|-------|
| Sex. | Test voltage (V) | | | 29VDC |) Ce | Р |
| Cert | Ambient (°C) | : | N. Go | 25.0 | ON | Cer- |
| Thermoco | ouple locations | Dt (K) | | | Max. Dt (| K) |
| Input port | Contract of the contract of th | 13.3 | | 2,00 | Ref. | Or (|
| Internal wi | rev | 9.2 | Ceix | 0 | 55 | OV. |
| Motor bod | y or an | 21.0 | , est | 0, | 85 | χ. |
| Controller | PCB near U1 | 25.1 | OV. | e ^č | 105 | -9 × |
| Controller | Enclosure (inside) | 11.6 | | at . | Ref. | Col |
| Controller | Enclosure (outside) | 7.2 | | , G | 70 | Or Co |
| Ambient | i con | 25.0°C | oř. | , C. | , T | OV |
| Suppleme | ntary information: | Con No. | 21 | O. | Cox | |

| 13.2 | TABLE: Leakage current | | | P |
|-------------------------|---|-------------------------|---------------|-----------|
| AV. | Heating appliances: 1.15 x rated input: | Or Cer- | | |
| Or. | Motor-operated and combined appliances: 1.06 x rated voltage: | 1.06x240V (For adapt |) = • • • • • | |
| Leakage current between | | I (mA) | Max. allowe | ed I (mA) |
| L&N – to C | Controller enclosure | 0.005 | 0.35pe | eak |
| Suppleme | ntary information: | Or Car | | |

| | , | | |
|------|--------------------------|--|---|
| 13.3 | TABLE: Electric strength | | P |

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| OV. | - OF | , , , , , , , , , , , , , , , , , , , | EN 60335-1 | , Co , A | |
|--------|-------------|---------------------------------------|------------|----------|--------|
| Clause | Requirement | O, Co, | B | emark | Result |

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| Test voltage applied between: | Voltage (V) | Breakdown (Yes/No) |
|----------------------------------|-------------|-----------------------|
| L&N to Controller enclosure | 3000 | No O |
| DC inlet to Controller enclosure | 500 | No |
| Supplementary information: | V CON | , |

| 16.2 | TABLE: Leakage current | | O' OF P |
|----------|---|-----------------|---------------------|
| SÝ C! | Single phase appliances: 1.06 x rated voltage : | 254.4V (For ac | dapter input) |
| OV. | Three phase appliances 1.06 x rated voltage divided by √3:: | * 0, 0 <u>0</u> | Cot. O - |
| Leakage | current between | I (mA) | Max. allowed I (mA) |
| L&N to C | Controller enclosure | 0.005 | 0.25 |
| Supplem | entary information: | O. Co. | OV cor |

| 16.3 TABLE: Electric strength | Co x Ov | (P) |
|----------------------------------|-------------|-----------------------|
| Test voltage applied between: | Voltage (V) | Breakdown (Yes/No) |
| L&N to Controller enclosure | 3000 | No |
| DC inlet to Controller enclosure | 500 | No |
| Supplementary information: | er V | x Or cert |

| 17 | TABLE: Overload protection | | N/A |
|-----------------|----------------------------|---|---------------------------------------|
| Thermo | ocouple locations: | Max. temperature rise measured, Δ T (K) | Max. temperature rise limit, Δ T (K) |
| Ci ^o | CON COL VICE | a OV- con | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |
| Supplen | nentary information: | Con x Oli coit | , Co x |

| 17 | TABLE: Overload protection, resistance method | | | | | | N/A |
|----------|---|--------|--------|--|-----------|-----|-----------|
| | Test voltage (V) | | : | of O | ,C | × | _ |
| | Ambient, t1 (°C) | | : | - oth | D, Co | × | |
| Con | Ambient, t2 (°C) | | : | OL' OR | 🛇 | Cer | |
| Temperat | ure of winding: | R1 (Ω) | R2 (Ω) | Δ T (K) | T (°C) | Max | x. T (°C) |
| 0 | Cert V | - × | 0 -0er | <u>-</u> | , <u></u> | 0 | ces |
| Suppleme | entary information: | Co | OV C | of the same of the | , Co | , | OV |

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| × | Or con | , S. X | EN 60335-1 | , Co. x | Or |
|--------|-------------|--------|------------|---------|--------|
| Clause | Requirement | O. Co. | . 0 | Remark | Result |

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| 19 | Abnormal opera | ation conditions | Col | | | | Р |
|-----------------------------|---|--------------------------|-----------------|--|------------------------------|----------------|-----------------|
| Operational characteristics | | | YES/NO | Operational conditions | | | |
| Are there e | lectronic circuits to peration? | to control the | YES | Clause 19.11.2; Clause 19.11.4 [Not possib unsafe operation] | | sible | |
| Are there " | off" or "stand-by" | position? | YES | Clause 19.1 | 1.4 [Not possi | ble unsafe ope | ration] |
| | nded operation of angerous malfund | A. V | NO | N/A | ce ^{tt} | Or Cer | |
| Sub- clause | Operating conditions description | Test results description | PEC description | EMP 19.11.4 | Software type required | 19.11.3 PEC | Final result |
| 19.2 | N/A | N/A | N/A | N/A | N/A | ⊘N/A | N/A |
| 19.3 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.7 | See table 19.7 | No hazard | N/A | N/A | N/A | N/A | Р |
| 19.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.9 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.11.2 | See table 19.11.2 | No hazard | N/A | N/A | N/A | N/A | P |
| 19.11.4.8 | S N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19.10X | N/A | N/A | × N/A | N/A | N/A | N/A | N/A |

| 19.7 | TABLE: Abnormal operation, locked rotor/moving parts | | | | | | |
|------------------|--|------------------|---------|---------|--------|----|-----------|
| OL | Test voltage (V):: | | 29VDC | | | _ | |
| Ambient, t1 (°C) | | | : | | 24.5 | | _ |
| × × | Ambient, t2 (°C) | | : | COL | 25.0 | X | _ |
| Temperatu | re of winding: | R1 (Ω) | R2 (Ω) | Δ T (K) | T (°C) | Ma | x. T (°C) |
| winding of N | Motor | o | ,C° - , | 19.7 | 38.2 | | 150 |
| Supplemen | tary information: | , and the second | Or Col | | , or | O, | Cer |

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| 0 | | , Communication of the communi | EN 60335-1 | Y. O. | CO | O |
|-----------|--------------------|--|-------------|---------------------|----------|------------------|
| Clause | Requirement | Or Co. | | Remark | O, Co, | Result |
| 19.9 | TABLE: Abnormal of | pperation, runni | ng overload | y cer | 0), | N/A |
| ~,Co. | Test voltage (V) | | : | ON CO | | ~ · · · · |
| 0, 0 | Ambient, t1 (°C) | | : | OV. | 50°K | · |
| 0, | Ambient, t2 (°C) | | : | x 0 | V COX | _ |
| Temperatu | re of winding: | R1 (Ω) | R2 (Ω) | Δ T (K) | T (°C) | Max. T (°C) |
| 5 | O, Co, | 0 | - A | `C _© , ″ | <u> </u> | - e ^t |
| Supplemen | itary information: | | J. C. C. | Or Col | | |

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| 19.13 TABLE: Abnormal operation, temp | PC® | |
|---------------------------------------|---|--------------------------------------|
| Thermocouple locations: | Max. temperature rise measured, Δ T (K) | Max. temperature rise limit, Δ T (K) |
| Controller Enclosure | 27.6 | 150 |
| Test corner | 8.6 | 150 |
| Supplementary information: | N CONTRACTOR | x or con |

| 21.1 | TABLE: Impact resistance | | | P | |
|-----------|--------------------------|----------------------|--------------------|----------|--|
| Impacts | per surface | Surface tested | Impact energy (Nm) | Comments | |
| a.K. | 3 0 | Controller Enclosure | 0,5 J | P | |
| Supplemer | ntary information: | Cott | T ON COL | | |

| 24.1 | TABLE: Components | | | | Р | |
|-------------------------|--|-----------------|--------------------------------------|-----------------|-----------------------|--|
| object part No. | manufacturer/trademar k | type/model | technical data | standard | mark(s) of conformity | |
| Controller Enclosure | SABIC INNOVATIVE PLASTICS US L L C | 945 (GG) | V-0, 120°C | UL 94 UL 746 | UL E121562 | |
| Motor | Interchangeable | Interchangeable | 24-29VDC 100W | EN 60335-1 | Test with appliance | |
| Controller PCB | SHENZHEN SHUN YI JIE TECHNOLOGY CO LTD | RF237(09) | V-0, 130°C | UL 94 UL 796 | UL E493604 | |
| Internal wire | DONGGUAN XIEHE WIRE CO LTD | 1015 | VW-1, 80°C, 300Vac, Min. 24AWG | UL 758 | UL E251491 | |

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| OV. | COL | 0 | EN 60335-1 | 7,00 | X OV |
|--------|-------------|--------|------------|--------|--------|
| Clause | Requirement | O, Co, | | Remark | Result |

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| 28.1 | TABLE: Thread | ed part torque test | | -01 | 0,0 | Р |
|-------------------------|---------------------|-------------------------|-------------|-----|----------------|--------|
| Threaded p | part identification | Diameter of thread (mm) | Column numb | er | Applied torque | e (Nm) |
| Screw for fix enclosure | x Controller | 3.1 | or con | O, | 0.5 | OL |
| Supplement | tary information: | | Or Car | | | |

| 29.1 | TABLE: Clearances | | N' OK | Or | N/A |
|------|----------------------|----|-------|----|-----|
| O. C | Overvoltage category | II | | | _ |
| | ······: | V | | | |

| | | Type of insulation: | | | | | |
|----------------------------|----------------------|---------------------|---------------------------------------|--|----------------------------|---------------------|--|
| Rated impulse voltage (V): | Min. cl (mm) | Basic (mm) | Supplementary (mm) | Reinforced (mm) | Functional (mm) | Verdict / Remark | |
| 330 | 0,2* / 0,5 / 0,8** | | ~ · | Ø ₂ (| jer — | N/A | |
| 500 | 0,2* / 0,5 / 0,8** | -05- | | x - 0 ^V | C of | N/A | |
| 800 | 0,2* / 0,5 / 0,8** | - COX | <u> </u> | χ | or - er | N/A | |
| 1 500 | 0,5 / 0,8** / 1,0*** | | ~ C | , Co. — , | <i>A A A A A A A A A A</i> | N/A | |
| 2 500 | 1,5 / 2,0*** | - N | (<u> </u> | , contraction of the same of t | - ~ | N/A | |
| 4 000 | 3,0 / 3,5*** | | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 0°- 0° | | N/A | |
| 6 000 | 5,5 / 6,0*** | _ | × 20° | -0 | Cox— | N/A | |
| 8 000 | 8,0 / 8,5*** | Carr | ~ | × - 0 | i Goth | N/A | |
| 10 000 | 11,0 / 11,5*** | d | <u> </u> | -2°, ———————————————————————————————————— | 0 ^V - c.e | N/A | |

Supplementary information:

- *) For tracks on printed circuit boards if pollution degree 1 and 2
- **) For pollution degree 3
 ***) If the construction is affected by wear, distortion, movement of the parts or during assembly The product power adapter conforms to the certification

| 29.2 | TABI | LE: Cr | E: Creepage distances, basic, supplementary and reinforced insulation | | | | |
|------------------------|------|---|---|----------------|--------------------|--|--|
| Working voltage (V) | | Creepage distance (mm) Pollution degree | | | | | |
| | | 1 | 2 | 3 | Type of insulation | | |
| | | | Material group | Material group | | | |

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| | COX | Q. C. | , E | EN 60335-1 | | 3 | Or |
|--------|-------------|-------|------------------|------------|--------|------------------|--------|
| Clause | Requirement | O, | Č _® , | | Remark | Č _© , | Result |

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| | | ı | II | IIIa/IIIb | ı | II | Illa/IIIb | B*) | S*) | R*) | Verdic |
|-------------------|------|--------|-------|------------------|-------|-------|-----------|----------------|-----|-----------|--------|
| ≤50 | 0,2 | 0,6 | 0,9 | 1,2 | 1,5 | 1,7 | 1,9 | _ | _ | _ | N/A |
| >50 and ≤125 | 0,3 | 0,8 | 1,1 | 1,5 | 1,9 | 2,1 | 2,4 | -X | _ | | N/A |
| >125 and ≤250 | 0,6 | 1,3 | 1,8 | 2,5 | 3,2 | 3,6 | 4,0 | ,0 | _ | _ | N/A |
| >125 and ≤250 | 0,6 | 1,3 | 1,8 | 2,5 | 3,2 | 3,6 | 4,0 | _ |) | _ | N/A |
| >125 and ≤250 | 1,2 | 2,6 | 3,6 | 5,0 | 6,4 | 7,2 | 8,0 | _ | _ | _ | N/A |
| >250 and ≤400 | 1,0 | 2,0 | 2,8 | 4,0 | 5,0 | 5,6 | 6,3 | _ | _ | _ | N/A |
| >400 and ≤500 | 2,6 | 5,0 | 7,2 | 10,0 | 12,6 | 14,2 | 16,0 | _ | _ | <u> </u> | N/A |
| >500 and ≤800 | 3,6 | 6,4 | 9,0 | 12,6 | 16,0 | 18,0 | 20,0 | | _ | | N/A |
| >800 and ≤1000 | 2,4 | 4,0 | 5,6 | 8,0 | 10,0 | 11,0 | 12,5 | -0 | _ | _ | N/A |
| >1000 and ≤1250 | 3,2 | 5,0 | 7,1 | <u>></u> 10,0 | 12,5 | 14,0 | 16,0 |) - | _ | | N/A |
| >1250 and ≤1600 | 8,4 | 12,6 | 18,0 | 25,0 | 32,0 | 36,0 | 40,0 | _ | _ | * | N/A |
| >1600 and ≤2000 | 5,6 | 8,0 | 11,0 | 16,0 | 20,0 | 22,0 | 25,0 | | _ | _ | N/A |
| >2000 and ≤2500 | 15,0 | 20,0 | 28,0 | 40,0 | 50,0 | 56,0 | 64,0 | | _ | -,0 | N/A |
| >2500 and ≤3200 | 10,0 | 12,5 | 18,0 | 25,0 | 32,0 | 36,0 | 40,0 | _ | _ | _ | N/A |
| >3200 and ≤4000 | 25,0 | 32,0 | 44,0 | 64,0 | 80,0 | 90,0 | 100,0 | _ | _ | -< | N/A |
| >4000 and ≤5000 | 16,0 | 20,0 | 28,0 | 40,0 | 50,0 | 56,0 | 63,0 | | _ | _ | N/A |
| >5000 and ≤6300 | 20,0 | 25,0 < | 36,0 | 50,0 | 63,0 | 71,0 | 80,0 | 0 | _ | _ | N/A |
| >6300 and ≤8000 | 25,0 | 32,0 | 45,0 | 63,0 | 80,0 | 90,0 | 100,0 | _ | | _ | N/A |
| >8000 and ≤10000 | 64,0 | 80,0 | 112,0 | 160,0 | 200,0 | 220,0 | 250,0 | | | <u>,-</u> | N/A |
| >10000 and ≤12500 | 40,0 | 50,0 | 71,0 | 100,0 | 125,0 | 140,0 | 160,0 | e L | _ | | N/A |

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

| 29.2 | X | TABLE | : Creepag | je distance | s, functional i | nsulatio | n co | N/A |
|------------------------|-----|---|-------------|-------------|-----------------|-----------|-----------|---------|
| Working voltage (V) | | Creepage distance (mm) Pollution degree | | | | | | |
| | 1 | | 2 | | | 3 | | |
| | | М | aterial gro | oup | Mat | erial gro | up | |
| | | I | II | IIIa/IIIb | I | II | IIIa/IIIb | Verdict |
| ≤50 | 0,2 | 0,6 | 0,8 | 1,1 | 1,4 | 1,6 | 1,8 | N/A |
| >50 and ≤125 | 0,3 | 0,7 | 1,0 | 1,4 | 0 1,8 | 2,0 | 2,2 | N/A |
| >125 and ≤250 | 0,4 | 1,0 | 1,4 | 2,0 | 2,5 | 2,8 | 3,2 | N/A |
| >250 and ≤400 | 0,8 | 1,6 | 2,2 | 3,2 | 4,0 | 4,5 | 5,0 | N/A |
| >400 and ≤500 | 1,0 | 2,0 | 2,8 | 4,0 | 5,0 | 5,6 | 6,3 | ○ N/A |
| >500 and ≤800 | 1,8 | 3,2 | 4,5 | 6,3 | 8,0 | 9,0 | 10,0 | N/A |

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| | | | | F | EN 60335-1 | | \Diamond_{λ} | Cex | |
|-------------|----------|-------|------|------|------------|-------|----------------------|-------|--------|
| Clause | Requiren | nent | O. | Cox | | | Remark | | Result |
| -05 | ð | 300 | U | 0 -0 | | , , |) , | OV | .00 |
| >800 and ≤ | ≤1000 | 2,4 ⊘ | 4,0 | 5,6 | 8,0 | 10,0 | 11,0 | 12,5 | N/A |
| >1000 and : | ≤1250 | 3,2 | 5,0 | 7,1 | 10,0 | 12,5 | 14,0 | 16,0 | N/A |
| >1250 and : | ≤1600 | 4,2 | 6,3 | 9,0 | 12,5 | 16,0 | 18,0 | 20,0 | N/A |
| >1600 and : | ≤2000 | 5,6 | 8,0 | 11,0 | 16,0 | 20,0 | 22,0 | 25,0 | N/A |
| >2000 and | ≤2500 | 7,5 | 10,0 | 14,0 | 20,0 | 25,0 | 28,0 | 32,0 | N/A |
| >2500 and : | ≤3200 | 10,0 | 12,5 | 18,0 | 25,0 | 32,0 | 36,0 | 40,0 | N/A |
| >3200 and : | ≤4000 | 12,5 | 16,0 | 22,0 | 32,0 | 40,0 | 45,0 | 50,0 | N/A |
| >4000 and : | ≤5000 | 16,0 | 20,0 | 28,0 | 40,0 | 50,0 | 56,0 | 63,0 | N/A |
| >5000 and : | ≤6300 | 20,0 | 25,0 | 36,0 | 50,0 | 63,0 | 71,0 | 80,0 | N/A |
| >6300 and | ≤8000 | 25,0 | 32,0 | 45,0 | 63,0 | 80,0 | 90,0 | 100,0 | N/A |
| >8000 and ≤ | ≤10000 | 32,0 | 40,0 | 56,0 | 80,0 | 100,0 | 110,0 | 125,0 | N/A |
| >10000 and | ≤12500 | 40,0 | 50,0 | 71,0 | 100,0 | 125,0 | 140,0 | 160,0 | × N/A |

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| 30.1 | TABLE: Ball P | ressure Test of Thermo | pplastics | E OF P |
|------------|------------------|----------------------------|-----------------------|--------------------------|
| Allowed in | npression diamet | ter (mm): | ≤ 2 mm | , v OV — |
| Object/ Pa | rt No./ Material | Manufacturer/ trademark | Test temperature (°C) | Impression diameter (mm) |
| Contro | oller Enclosure | See table 24.1 | 75 | 1,0 |

| Object/ | Glow wire test (GWT); (°C) | | | | | | | Verdict |
|-------------------------|----------------------------|--|------------|--------------|------------------|------------------|------------------|---------|
| Part No./ Material | Manufacturer/ trademark | 550 | 6 | 550 | 75 | 50 | 850 | |
| Material | tradomark | 550 | te | ti | te | ti | | |
| Controller Enclosure | See table 24.1 | 1 | O. C. | CON | 01 | 9 ^E 1 | 19.00 | C P |
| Object/ Part No./ | Manufacturer/ trademark | Glow-wire flammability index GW ignition temp. (GWFI), °C (GWIT), °C | | | | | • | Verdict |
| Material | trademark | 550 | 650 | 750 | 850 | 675 | 775 | |
| _ | C° x | OV | C. ext | | Ç <u>e</u> | < | Ý e ^š | N/A |
| The test spe | cimen passed the g | low wire te | est (GWT) | with no ign | ition [(te – ti) | ≤ 2s] (Yes/ | No) | Yes |
| f no, then si | urrounding parts pas | ssed the n | eedle-flam | e test of ar | nex E (Yes/N | ۷o)(oV | : | No |
| | ecimen passed the te | · · | | | | | 010 | No |

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| | | EN 6 | 60335-1 | |
|--------|-------------|--------|---------|--------|
| Clause | Requirement | 0, 00, | Remark | Result |

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Supplementary information:

- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF
- The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances

| 30.2/30.2.4 | TABLE: | Needle- flame test (NF | т) 🖟 🛇 | Con | OV. OF | N/A |
|-------------------------|--------|---------------------------------|---|--|------------------------------------|-------------|
| Object/ Par Material | t No./ | Manufacturer/ trademark | Duration of application of test flame (ta); (s) | Ignition of specified layer Yes/No | Duration of burning (tb) (s) | Verdic t |
| | o cit | O _V C _O V | | - - 9` .c | o` <u></u> | <u></u> |

Supplementary information:

- NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1
- NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0

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| | COL | 9 | IEC 60335 | -1 ATTACHMEN | | Con | 0 |
|--------|-------------|----|-----------|--------------|--------|--------|--------|
| Clause | Requirement | O. | Co, | 0\' | Remark | O, Co, | Result |

ATTACHMENT TO TEST REPORT IEC 60335-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Household and similar electrical appliances - Safety -

Part 1: GENERAL REQUIREMENTS

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 +

Report No.: DL-20230908010S

A2:2019+ A15:2021 Differences according to:

EN 62233:2008

TRF template used.....: IECEE OD-2020-F2:2020, Ed. 1.1

Attachment Form No. EU GD IEC60335 1X II

Attachment Originator.....: Nemko Group AS

Master Attachment....: 2022-03-04

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| | CENELEC COMMON MODIFICATIONS (EN) | | ,Ger |
|----------------|---|-------------------|-------------------|
| 6.1 | Delete "class 0" and "class 01" | | O - C |
| 7.1 | Single-phase appliances to be connected to the supply mains: 230 V covered | N. O. Cet. | N/A |
| Cert | Multi-phase appliances to be connected to the supply mains: 400 V covered | N.C. O. C. | N/A |
| 7.12 | The instructions include the substance of the following: | | © P |
| | - this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved | Cer Oricet Oricet | P _c er |
| COL | - children shall not play with the appliance | So x ov | ø [©] P |
| OL, C | - cleaning and user maintenance shall not be made by children without supervision | Orice ex Ori | P |
| 8.1.1 | Also test probe 18 of EN 61032 is applied | | N/A |
| 2 ^t | The appliance being in every possible position during the test, except that | in the case | N/A |
| ,cett | appliances normally used on the floor and having a mass exceeding 40 kg are not tilted | TO ON ON SO | N/A |
| DY CO | The force on the probe in the straight position is increased to 10 N when probe 18 is used | Or Care | N/A |

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| | IEC 60335-1 ATTACHMEN | | O. |
|---------|--|-----------------------------|--------|
| Clause | Requirement | Remark | Result |
| Cer | When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and | O'COK O'COK | N/A |
| O. Ori | parts intended to be removed for user maintenance are also not removed | Q | N/A |
| 3.1.3 | Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action | or cer or cer | N/A |
| 3.2 | Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1 | Or Care | N/A |
| oik. | Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation | Cer Di Cer | N/A |
| 15.1.2 | Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling | Stick of Stick | N/A |
| 20.2 | For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use | et di cet | N/A |
| , Cerce | When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed | Or Cay Or Ca | N/A |
| O, | When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled | O COL | N/A |
| 22.12 | Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers | Copy Copy Of Copy | N/A |
| 22.17 | The requirement is not applicable to built-in appliances | OV COR | N/A |
| 22.44 | An appliance is child-appealing if one of the following crite | ria is present: | N/A |
| × . | - appliance decorated using faces, cartoon like characters, or similar images | | N/A |
| Cert | - appliance using shapes representing animals, characters, persons or scale models | | N/A |
| Ce | An appliance is child-appealing if more than one of the following | owing criteria are present: | N/A |
| 0, | - using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance) | | N/A |

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| | IEC 60335-1 ATTACHMEN | Τ , , , , , , , , , , , , , , , , , , , | |
|------------------|--|---|--------|
| Clause | Requirement | Remark | Result |
| - Per l | - using non-functional sound (e.g. music) | | ×N/A |
| COX | - using non-functional movement | | N/A |
| OV/ | If the appliance is child-appealing, has a mass less than 4 | kg or is mounted or normally | N/A |
| | intended for use at a height less than 850 mm, the following | | |
| | - surface temperature rise requirements not exceeded | it of con | N/A |
| , C | - hazardous moving parts not accessible | x OV CON | N/A |
| of the | - live parts not accessible | 000 | N/A |
| 0 | - liquid temperature requirement not exceeded, | DY (80) | N/A |
| OV.C. | unless for vessels in which two independent and sequential actions are needed to access the liquid | 0 | N/A |
| | - the requirement of 22.12 is applicable for all accessible parts of the appliance | × OV Co. | N/A |
| 24.1 | Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply | Cert Oricet | P |
| OL, Co | Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard | Dy Col. F. Dr. | P |
| OV. | Relays are tested as part of the appliance according to this standard | x Or cet | N/A |
| × . | Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1 | Ser Or Car | N/A |
| , Cer | The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance | The state of the | N/A |
| QV. | Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard | x O' Get | N/A |
| ,e ^{rt} | The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components | Or Cert Or Cert | P |
| 0, | Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard | er Oricer | OV. |
| Cort | Components that have been tested and shown to comply verification requirements in the EN standard for the relevant compone that: | | N/A |
| , Ce | - the severity specified in the component standard is not less than the severity specified in 30.2, and | St. Ost. St. | N/A |
| | - the test report for the component states the values of t _e and t _i acc. to EN 60695-2-11 | OF COL | N/A |

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| IEC 60335-1 ATTACHMENT | | | |
|------------------------|---|------------------|--------|
| Clause | Requirement | Remark | Result |
| COX. | If the above two conditions are not satisfied, the component is tested as part of the appliance | Con X OV CON | N/A |
| Dr. Dr. | Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard | O CO COT A | N/A |
| ř. | Unless components have been tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9 | St. A Di Ce | N/A |
| Dr. Co | For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9 | Dr. Co. Cor. Or. | N/A |
| \Diamond | Components that have not been tested and found to comply with the relevant EN standard, and | in or cer | N/A |
| - Jest | components that are not marked or not used in accordance with their marking, | Car Or Car | N/A |
| Or. Co. | are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard | Dr. Cer. Dr. | N/A |
| , Ce ^{tt} | Lamp-holders and starter-holders that have not been tested and found to comply with the relevant EN standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance | et Dirocett | N/A |
| 01.Co | Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used | Oricest O | N/A |
| -je ^{jt} | There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard | cet of cet | N/A |
| Or. | Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or | or opposit of | N/A |
| ,C | with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if | Carr Or Carr | N/A |
| Co | direct supply to these parts from the supply mains gives rise to a hazard | | N/A |
| | For plugs used in CENELEC countries Annex ZH applies | Q 60° | N/A |

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| IEC 60335-1 ATTACHMENT | | | O. |
|------------------------|--|--|--------|
| Clause | Requirement | Remark | Result |
| 24.1.7 | When the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003 | Dr. Cert. Dr. Cert. | N/A |
| × 01. | Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003 | ak Orionicak | N/A |
| 24.Z1 | Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1 | Dr. Carr. Dr. Ce | N/A |
| 25.1 | Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH | Or Care | N/A |
| 25.7 | Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or | | N/A |
| cer | when they are liable to be exposed to significant amount of ultraviolet radiation | Cor x Vi cor | N/A |
| 25.25 | Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard | dices di | N/A |
| | Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH | x Or Cot | N/A |
| 26.11 | Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position, | | N/A |
| y ce | unless they are held in place near the terminals independently of the solder | Direction of the principle of the princi | N/A |
| 29.3.Z1 | Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2 | OV. Cett | N/A |
| 32 | Compliance regarding electromagnetic fields is checked according to EN 62233 | Car X OV Car | P |
| Annex I, 19.I.101 | The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified | Dr. Cost. Dr. | N/A |
| | The duration of any of the tests is as specified in 19.7 | O. T. | N/A |
| | | is of con | |
| ZA | ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN) | Ser Of Care | Р |
| Cox | | N S | 34 |
| Y ce | Denmark, Sweden, Norway and Finland | | N/A |
| 7.12.8 | The maximum inlet water pressure is at least 1,0 MPa | 7 1.5° at 0 | N/A |
| | | V G | |

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| . 🔍 | IEC 60335-1 ATTACHMEN | - A | |
|-------------------|--|--------------|--------|
| Clause | Requirement | Remark | Result |
| 0000 | | | |
| - 00 | | × × × | e C |
| 2,0 | Norway | S 35 | N/A |
| 19.5 | The test is also applicable to appliances intended to be permanently connected to fixed wiring | OF CONT. | N/A |
| | | St. Or Col. | |
| 350 | Norway | × 0 0 00 | N/A |
| 22.2 | The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system | Dice of Dice | N/A |
| O, | | 1,0 1,0 O | Co |
| O) | Denmark | , V 200 x | N/A |
| 22.47 | The maximum inlet water pressure is at least 1,0 MPa | St. O. Co. | N/A |
| coll | Name of the second seco | Co x or cert | |
| | Or Con Or Or Or | CON | o't |
| 7,00 | Ireland and United Kingdom | dr Cell | P |
| 25.8 | In the table, the line >10 A and ≤16 A is replaced with: | OL COLL | P |
| O'V | > 10 and ≤ 13 1,25 (1,0) ^b | | О Р (|
| x | $> 13 \text{ and } \le 16 1,5 (1,0)^{b}$ | | N/A |
| 7 | | 2K O CO | |
| ZB | ANNEX ZB (INFORMATIVE) A-DEVIATIONS | Die Care Die | Р |
| , , | X OV CON X | OV CON | ,O° |
| O. | Ireland Company | 01: -01 | N/A |
| 25.1 and 25.25 | These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances | Cer Or Cer | N/A |
| Cel | | | ,0` |
| 01/ | United Kingdom | V SO X | N/A |
| 25.1 and 25.25 | These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. | ex Or Cox | N/A |
| S.C. | It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes | | N/A |
| Ò, | | 5 | × |

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| <u> </u> | IEC 60335-1 ATTACHMEN | H 2 | O, |
|----------|--|-----------------------|------------------|
| Clause | Requirement | Remark | Result |
| ZC C | ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUE CORRESPONDING EUROPEAN PUBLICATIONS | BLICATIONS WITH THEIR | e ^t P |
| 0r | A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document | The Option Copy | OV. P |
| 2 | | X OV CON | |
| ZD | ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXI | BLE CORDS | Р |
| Dr Ce | List of IEC and CENELEC code designations for flexible cords | Orio Calt. Or | ØP. |
| - V | | x O' cor | ,00 |
| ZE V | ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIA INTENDED FOR COMMERCIAL USE | ANCES AND MACHINES | N/A |
| 7.1 | Business name and full address of the manufacturer and, where applicable, his authorized representative: | | N/A |
| 0 | Model or type reference: | 7,0° × 0 | N/A |
| OV. | Serial number, if any | Q, 'Co, X | N/A |
| | Production year | ex Or Cor | N/A |
| 35 | Designation of the appliance: | X ON COR | N/A |
| 7.12 | Instructions provided with the appliance so that the appliance can be used safely | Discontinuity of | N/A |
| 00 | The instructions contain at least the following information: | OL' SIX OF | N/A |
| OV. | - the business name and full address of the manufacturer and, where applicable, his authorized representative | x Olio cet | N/A |
| | - model or type reference of the appliance as marked on the appliance itself, except for the serial number | Car Or Car | N/A |
| Cert | - the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers | Original Original | N/A |
| Or Ori | - the general description of the appliance, when needed due to the complexity of the appliance | ON CONT. ON | N/A |
| , C | - specific precautions required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving | et of cet | N/A |
| Cert | - when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance | | N/A |
| OF | - the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance | * Or Cay | N/A |

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| | IEC 60335-1 ATTACHMEN | i Y | |
|------------------|---|--|--------|
| Clause | Requirement | Remark | Result |
| Cer | The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative | Or Or Or | N/A |
| oth other | When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance | ok Or Cer | N/A |
| V.Cert | The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand | Dr. Cerr Dr. Ce | N/A |
| . 👌 | The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures | Cet O' Cet | N/A |
| 7.12.ZE1 | If needed for specific appliances, the following information | to be given: | N/A |
| | - on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts | or or or or | N/A |
| Co ^{tt} | - on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance | Licet of ce | N/A |
| OV Ces | - on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided | Original X | N/A |
| × 0) | - on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance | Cor Or Co | N/A |
| CON BILL | - on the specifications on the spare parts to be used, when these affect the health and safety of the operator | Cox. Or Cox | N/A |
| QY,0 | - on airborne noise emissions, determined and declared in Part 2, which includes: | accordance with the relevant | N/A |
| × 0× | - the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); | st Original Cost | N/A |
| - OK | - where this level does not exceed 70 dB(A), this fact is indicated | Set × OF Se | N/A |
| V. OV. Cer | - the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa) | Direction of the contract of t | N/A |

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| IEC 60335-1 ATTACHMENT | | | O. |
|------------------------|---|--------------------------|--------|
| Clause | Requirement | Remark | Result |
| Or. Corr | - the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A) | Or Cake Or Origin | N/A |
| 7.12.ZE2 | The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts | at Olice | N/A |
| o Ce ^{it} | If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug is such that an operator can check from any of the points to which he has access that the plug remains removed | | N/A |
| Ol. | If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided | | N/A |
| 19.11.4.8 | The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or | Car Or Car | N/A |
| Cer | a manual operation is required to restart it | | N/A |
| 20.1 | Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance | & Olicek Oli | N/A |
| 20.2 | Dangerous moving transmission parts safeguarded either by design or guards | Car. | N/A |
| V. Cer | When guards are used, they are fixed guards, interlocking movable guards or protective devices | | N/A |
| Q1,'C3 | Moving parts directly involved in the function of the applian completely inaccessible fitted with: | ice which cannot be made | N/A |
| . O | - fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and | Cett Olice Cett | N/A |
| Cor | - adjustable guards restricting access to those sections of the moving parts where access is necessary | Cott & OV. | N/A |
| OL.O | Interlocking movable guards used where frequent access is required | D. Co. | N/A |
| 21.1 | Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance | St. Or Cett | N/A |
| 22.ZE.1 | For appliances provided with a seat, the seat gives adequate stability | | N/A |
| OV. | The distance between the seat and the control devices capable of being adapted to the operator | 7.0° × 0 | N/A |

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| IEC 60335-1 ATTACHMENT | | | |
|---------------------------------|--|-------------------|--------|
| Clause | Requirement | Remark | Result |
| 22.ZE.2 | For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function | Or Corr Or Corr | N/A |
| 3 th 0 th | For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function | et dricet | N/A |
| 22.ZE.3 | Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation | | N/A |
| OL. | If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure | DY 500 DY | N/A |
| 22.ZE.4 | Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or | Cox Dr. Cert | N/A |
| Cei ^K | so designed that they can be fitted with such attachments, or | 1,0° 1,0° 0 | N/A |
| OV. | be shaped in such a way that standard lifting gear can easily be used | Or Care Or | N/A |
| | Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely | K O' COK | N/A |
| 22.ZE.5 | The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools | Treat Or ce | N/A |
| 0), Co ₂ | If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal | Original Original | N/A |
| ×. | Where possible, guards are incapable of remaining in place without their fixings | COL X | N/A |
| JON JOSEPH | This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative | Or cert Orice | N/A |
| Q, C | Movable guards are interlocked | | N/A |
| , | The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed | ok Or Cert | N/A |
| Cert | Where it is possible for an operator to reach the danger zo hazardous appliance functions has ceased, movable guard locking device in addition to an interlocking device that: | | N/A |
| OV | - prevents the start of hazardous appliance functions until the guard is closed and locked, and | O. Co. | N/A |

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| IEC 60335-1 ATTACHMENT | | | |
|------------------------|--|------------------------------------|--------|
| Clause | Requirement | Remark | Result |
| Celt | - keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased | Cox X Or Cox | N/A |
| 0), | Interlocking movable guards remain attached to the appliance when open, and | | N/A |
| ,ř. | they are designed and constructed in such a way that they can be adjusted only by means of an intentional action | er or cer | N/A |
| 22.ZE.6 | Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions | orices or orice | N/A |
| 0, | The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2: | O' Cath | N/A |
| get get | After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time | Cot of Oricest | N/A |
| 01 | After these tests the interlock system is fit for further use | V 20° x 0° | N/A |
| 22.ZE.7 | Adjustable guards restricting access to areas of the moving work are: | g parts strictly necessary for the | N/A |
| , c | - adjustable manually or automatically, depending on the type of work involved, and | | N/A |
| COL | - readily adjustable without the use of tools | SO X OV CO | N/A |
| 22.ZE.8 | In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart | O'CO'CO'CO'C X | Ň/A |
| 50 th , | However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred | Cet Or Cet | N/A |
| 22.ZE.9 | Appliances fitted with means to isolate them from all energy sources | Dr. Cet. Dr. | N/A |
| Ç | Such isolators are clearly identified, and | Or Col | N/A |
| × 0, | they are capable of being locked if reconnection endanger persons | at OV Cott | N/A |
| ceit | After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons | Ticest Of Ces | N/A |
| 60 | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 2,0 x 0 | Cock |
| ZF OF | ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PROD STANDARDS IN THE EN 60335 SERIES UNDER LVD O | | Po |

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| | IEC 60335-1 ATTACHMEN | T Y | |
|---|---|---------------------------------|--------|
| Clause | Requirement | Remark | Result |
| Cerr | List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive): | Or Cay Or Car | P P |
| , , | x or cor | Or con | , Co |
| ZG | ANNEX ZG (NORMATIVE) UV APPLIANCES | ex Or cex | N/A |
| | The following modifications to this standard apply to appliances having UV emitters | Car Or Car | N/A |
| Y. C. | This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109 | Dr. Cour Dr. O | N/A |
| 7.12.ZG | The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source | Cet Or Cet | N/A |
| 32 CON | For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant | Dr. Ceyr X Dr. Ce | N/A |
| | | Q, Co, | 01/ |
| ZH | ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC co | untries | N/A |
| - oth | In general, supply cords of single-phase appliances having 16 A are fitted with a plug complying with the following star | g a rated current not exceeding | N/A |
| | - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4 | | N/A |
| 0, | - for class II appliances, standard sheet EU5, EU6 or EU7 | OF COT | N/A |
| ~ | There are exemptions or differences in certain CENELEC countries | Cot O' Cot | N/A |
| × × | 0 × 0 × 0 | - 8th V 50 | X. |
| ZI CON | ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 6033 CENELEC CLC/TC 61(SEC)2096A | 5-1:2012 | P |
| OV. | Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1 | x O' Got | P |
| × . | | | 0, |
| ZZA | ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDA OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] | | , P |
| V Cei | This standard provides one means of conforming to safety objectives of Directive 2014/35/EU | OV CON TO O | P |

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| | IEC 60335-1 ATTACHMEN | fr Y S | |
|--------------|--|-----------------------|--------|
| Clause | Requirement | Remark | Result |
| -05 | | | |
| Or Cert | When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations | Or Cett Or | Jet P |
| ,č. | Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives | et of cet | P |
| COL | X So X | S X OV CE | |
| ZZB | ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDA REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO | | N/A |
| \(\) | This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC | | N/A |
| cett | When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations | Col. Col. Orio Col. | N/A |
| 0, 0, | Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements | x Or Car | N/A |
| , C | V So x OV Cor | X OV COR | |
| X | O | G S | X |
| | ANNEX EN 62233:2008 EMF- ELECTROMAGNETICS FIELDS | | P |
| OV. | The tested product also complies with the requirements of | f EN 62233:2008 | Pos |
| 0 | Limit100% | Measured max. : 3.88% | OP |
| | | × 0× 00× | |

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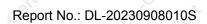
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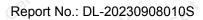








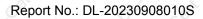
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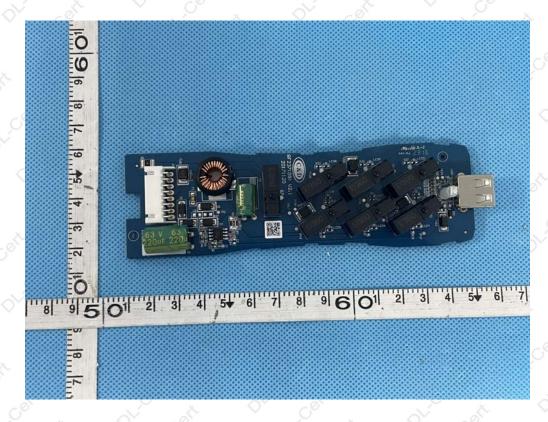






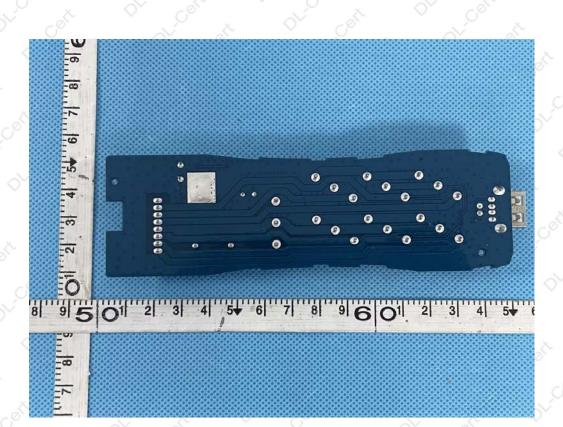






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*** * END OF REPORT ****

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