



Test Report issued under the responsibility of:



TEST REPORT
IEC 60335-2-9
Safety of household and similar electrical appliances
Part 2: Particular requirements for grills, toasters and similar cooking appliances

Report Number..... : 4791278599.1.1-00

Date of issue..... : 2024-07-17; Amendment 2: 2026-06-11

Total number of pages : 23

Name of Testing Laboratory
preparing the Report : UL International Limited

Applicant's name : SharkNinja Operating LLC

Address..... : 89 A Street, Suite 100, Needham, MA 02494, United States

Test specification:

Standard : IEC 60335-2-9:2019 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2010, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016

Test procedure : CB Scheme

Non-standard test method : N/A

Test Report Form No. : IEC60335_2_9P

Test Report Form(s) Originator : LCIE

Master TRF : Dated 2019-08-23

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General disclaimer:

The test results presented in this report relate only to the object tested.

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Test item description :	Double Stack Dual Zone Air Fryer	
Trade Mark(s)		
Original Product/Equipment Manufacturer	1. SharkNinja Europe Ltd 1st/2nd Floor Building 3150, Thorpe Park, Century Way, Leeds, England, LS15 8ZB, United Kingdom 2. SharkNinja Germany GmbH Rotfeder-Ring 9, 60327 Frankfurt am Main, Germany 3. SharkNinja Operating LLC 89 A Street, Suite 100, Needham, MA 02494, United States	
Branding Manufacturer(s)		
Model/Type reference	SL45X***** aaa; SL5XX***** aaa; SL451ANZ (Where "X", "*" and "a" can be any alpha-numeric character from A to Z or 0-9, "*" may be blank to denote different countries, colors, customers or customer code or configurations and package. Where "aaa" represent factory code (e.g. JM1=Yueda), the factory code is not part of the official model number.)	
Ratings	SL45X***** aaa; SL5XX***** aaa: 220-240V~ 50-60Hz 2470W Class I SL451ANZ: 220-240V~ 50-60Hz 2270W Class I	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	UL International Limited
Testing location/ address :		19/F, Watson Centre, 16-22 Kung Yip Street, Kwai Chung, N.T., Hong Kong
Tested by (name, function, signature)		Keno Ip Project Handler 
Approved by (name, function, signature) ...		Calvin Chan Reviewer 
☐	Testing procedure: CTF Stage 1:	
Testing location/ address :		
Tested by (name, function, signature)		
Approved by (name, function, signature) ...		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address :		
Tested by (name + signature)		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature) ...		

☐	Testing procedure: CTF Stage 3:		
☐	Testing procedure: CTF Stage 4:		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature) .:			
Approved by (name, function, signature)...:			
Supervised by (name, function, signature) :			

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

- Appendix 1: European Group Difference and National Differences to EN IEC 60335-2-9 and EN 60335-1 – 16 pages
- Appendix 2: Photographs – 3 pages

Summary of testing:**Tests performed (name of test and test clause):****Amendment 2 (under project: 4792248313.1.1)**

Rated Power Input Test	Cl. 10
Heating Test	Cl. 11

Abnormal Operation (Electrostatic Discharges Immunity) Test	Cl.19
Abnormal Operation (Electronic Circuit – Radiated Fields) Test	Cl.19
Abnormal Operation (Electronic Circuit – Fast Transient Bursts) Test	Cl.19
Abnormal Operation (Electronic Circuit – Power Supply Terminals – Voltage Surges) Test	Cl.19
Abnormal Operation (Electronic Circuit – Injected Currents) Test	Cl.19
Abnormal Operation (Electronic Circuit – Voltage Dips and Interruptions) Test	Cl.19
Abnormal Operation (Electronic Circuit – Mains Signals) Test	Cl.19
Abnormal Operation (Voltage Variations Immunity) Test	Cl.19

Amendment 1 (under project: 4791431363.1.1)

Rated Power Input Test	Cl. 10
Heating Test	Cl. 11
Leakage Current (at Operating Temperature) Test	Cl. 13
Electric Strength (at Operating Temperature) Test	Cl. 13
Humidity Test	Cl. 15
Leakage Current (after Humidity) Test	Cl. 16
Electric Strength (after Humidity) Test	Cl. 16
Abnormal Operation (Under Voltage & Restricted Heat Dissipation) Test	Cl. 19

Testing location:

UL International Limited
19/F, Watson Centre, 16-22
Kung Yip Street, Kwai Chung,
N.T., Hong Kong

UL-CCIC Company Limited
No. 2, Chengwan Road,
Suzhou Industrial Park,
Suzhou 215122, China

UL International Limited
19/F, Watson Centre, 16-22
Kung Yip Street, Kwai Chung,
N.T., Hong Kong

Abnormal Operation (Over Voltage & Restricted Heat Dissipation) Test	Cl. 19
Abnormal Operation (Short-Circuited Control) Test	Cl. 19
Abnormal Operation (Tubular Sheath/Embedded Heating Element) Test	Cl. 19
Abnormal Operation (Stalled Condition) Test	Cl. 19
Inspection for Corrosion (Following Abnormal Operation) Test	Cl. 22
Clearance and Creepage Distance Force Test	Cl. 29
Supplementary/Reinforced Insulation Thickness – Dry Heat & Electric Strength Test	Cl. 29
Ball-Pressure Test	Cl. 30

Original Report (Under project 4791171295.1.1)

Permanence of Marking Test	Cl. 7
Accessibility of Live Parts Test	Cl. 8
Power Input and current	Cl. 10
Heating	Cl. 11
Leakage current and electric strength at operating temperature	Cl. 13
Moisture resistance	Cl. 15
Leakage current and electric strength	Cl. 16
Overload Protection (Transformer and Associated Circuits) Test	Cl. 17
Abnormal operation	Cl. 19
Stability and mechanical hazards	Cl. 20
Mechanical strength	Cl. 21
Construction	Cl. 22
Internal wiring	Cl. 23
Components	Cl. 24
Supply connection and external flexible cords	Cl. 25
Terminals for external conductors	Cl. 26
Provision for earthing	Cl. 27
Screws and connections	Cl. 28
Clearances, creepages distances and solid insulation	Cl. 29
Resistance to heat and fire	Cl. 30
Safety isolating transformers	Annex G

UL Verification Services
(Guangzhou) Co., Ltd.
Room
101,201,301,501,502,503,
Building A1,
Nansha Science and
Technology Innovation Center,
No. 25, South Huanshi
Avenue, Nansha District,
Guangzhou 511458, China

Proof Tracking Test	Annex N	(Subcontract per OD-2012) EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China
Abnormal operation	CI.19.11.4	
Summary of compliance with National Differences (List of countries addressed): United Arab Emirates EU Group Difference Australia and New Zealand ☒ The product fulfils the requirements of: CARL-01 – Requirements for Registration of Low Voltage Equipment EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023 EN IEC 60335-2-9:2023 + A11:2023 EN 62233:2008 + AC:2008 AS/NZS 60335.2.9:2020 AS/NZS 60335.1:2020 + A1:2021 (Corr1 Nov, 2022 applied)		
Statement concerning the uncertainty of the measurement systems used for the tests ☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established: Procedure number, issue date and title: Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing. ☒ Statement not required by the standard used for type testing		

Copy of marking plate:

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



Remark: the marking plate of other models are same as above except model number and rating.

Test item particulars: Air Grill with Probe	
Classification of installation and use: Portable appliance for household use	
Supply Connection: Type Y Attachment supply cord fitted with a plug:	
Possible test case verdicts: - test case does not apply to the test object.....: N/A - test object does meet the requirement.....: P (Pass) - test object does not meet the requirement.....: F (Fail)	
Testing : Date of receipt of test item : 2026-05-14 Date (s) of performance of tests : 2026-05-26 to 2026-06-05	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IECCE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided :	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Zhejiang Yueda Electronic Technology Co., Ltd. No. 116 Juchuang Road, Western Industrial Zone, Guanhaiwei Town, Cixi, Ningbo, Zhejiang, 315300, China	
General product information and other remarks: The appliance is for household and indoor use. Supplementary Information on National/Group Differences: National differences of Republic of Korea, Saudi Arabia, Israel for information only, since the ND/GD TRF latest revision does not match the latest revision of IEC Standard TRF used for evaluation. National differences of Singapore, Malaysia for information only. ☒ The product fulfils the requirements of National Differences for Republic of Korea National Differences KC60335-1(2022-06). ☒ The product fulfils the requirements of National Differences for Israel SI 900 PART 1 (2018)	

☒ **The product fulfils the requirements of National Differences for Saudi Arabia SASO GSO IEC 60335-1:2016.**

Model difference:

SL45X***** aaa; SL451ANZ

(Where "X", "*" and "a" can be any alpha-numeric character from A to Z or 0-9, "*" may be blank to denote different countries, colors, customers or customer code or configurations and package. Where "aaa" represent factory code (e.g. JM1=Yueda), the factory code is not part of the official model number)

SL451ANZ is identical to SL45X***** aaa except for heating element and model destination for marketing purpose in Australia and New Zealand.

SL5XX***** aaa is identical to SL45X***** aaa except for new cooking modes,

- Added Grill mode to replace Dehydrate mode in SL45X***** aaa;
- Added +30s to replace Double Stack Pro in SL45X***** aaa.

Amendment 1 (Technical)

This report should be read in conjunction with test report:

- Report No. 4791278599.1.1-00 dated 2024-07-17 and CB test certificate number DK-155378-UL, DK-155379-UL and DK-155380-UL dated 2024-07-18 for model SL45X***** aaa.

Test results and verdicts not mentioned in this report are identical with the earlier issued original test report.

Differences with respect to previous test reports :

- Added evaluation of Australia/New Zealand National Differences.
- Added model SL451ANZ for Australia and New Zealand market with different rating.
- Added heating element, plug and supply cord for model SL451ANZ in Table 24.1
- Revise typo ICE to IEC under Standard column in Table 24.1
- Revise typo add back Cl.17 in Summary of testing under Original report
- Revise internal wires arrangement for Internal wire (to UI PCBA)
- Revise typo information of Fiber glass silicone sleeving (for microswitch wire) in Table 24.1

Based on previously conducted testing and the review of product construction, only tests listed from "Tests Performed" were deemed necessary.

Amendment 2 (Technical)

This report should be read in conjunction with test report:

- Report No. 4791278599.1.1-00 dated 2024-07-17 and CB test certificate number DK-155378-UL, DK-155379-UL and DK-155380-UL dated 2024-07-18 for model SL45X***** aaa.
- Amendment 1 report 4791278599.1.1-00 dated 2024-09-16 and CB test certificate number DK-155378-M1-UL, DK-155379-M1-UL and DK-155380-M1-UL dated 2024-09-19 for model SL45X***** aaa, SL451ANZ.

Test results and verdicts not mentioned in this report are identical with the earlier issued original test report.

Differences with respect to previous test reports :

- Added model SL5XX***** aaa with different cooking modes. Also update to GPI model different.
- Standard updated to EN IEC 60335-2-9:2023 +A11:2023 and A16:2023 of EN 60335-1:2012
- Update factory name due to name change.

Based on previously conducted testing and the review of product construction, only tests listed from "Tests Performed" were deemed necessary.

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
7	MARKING AND INSTRUCTIONS		-
7.1	Rated voltage or voltage range (V)..... :	See page 2	P
	Symbol for nature of supply, or..... :	See page 2	P
	Rated frequency (Hz)..... :	See page 2	P
	Rated power input (W), or..... :	See page 2	P
	Rated current (A) :		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark :	See page 2	P
	Model or type reference :	See page 2	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0 :		N/A
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only, or		N/A
	for appliances powered by rechargeable batteries recharged in the appliance		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		N/A
	The rated power input or rated current of induction hotplates shall also be marked. (IEC 60335-2-9)		N/A
	Appliances intended to be partially immersed in water for cleaning shall be marked with the maximum level of immersion and the substance of the following: Do not immerse beyond this level. (IEC 60335-2-9)		N/A
	If appliances have accessible metal surfaces, for which temperature rise limits are specified in Table 102 and for which the provisions of footnote b to Table 102 apply, then the appliance shall be marked with symbol IEC 60417-5041(2002-10), the rules of ISO 3864-1 applying except for the specified colours, or marked with the substance of the following: CAUTION: Hot surface (IEC 60335-2-9)		P
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
	Symbol IEC 60417-5041 (2002-10) caution, hot surface (IEC 60335-2-9)		P
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		-
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		P
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
	Appliance with inlet and intended to be partially or fully immersed for cleaning, instruction sheet including in substance: (IEC 60335-2-9)		-
	- remove connector before cleaning		N/A
	- dry appliance inlet before re-use		N/A
	The instructions for use for appliances intended to be used with a connector incorporating a thermostat shall state that only the appropriate connector must be used (IEC 60335-2-9)		N/A
	Instructions for appliances for outdoor use (IEC 60335-2-9):		-
	-The appliance is suitable for outdoor use		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	-The supply cord should be regularly examined for signs of damage, and if the cord is damaged, the appliance must not be used		N/A
	-The appliance must be supplied through a residual current device (RDC) having a rated residual operating current not exceeding 30mA		N/A
	-The appliance is to be connected to a socket-outlet having an earthing contact (class I)		N/A
	If symbol IEC 60417-5041 (2002-10) is marked on appliances, its meaning shall be explained (IEC 60335-2-9)		P
	The instructions shall state that the appliances are not intended to be operated by means of an external timer or separate remote-control system (IEC 60335-2-9)		P
	The instructions shall include details on how to clean surfaces in contact with food (IEC 60335-2-9)		P
	For toasters, they shall include details on how to remove breadcrumbs, when applicable. (IEC 60335-2-9)		N/A
	For toaster: Bread may burn. Therefore toasters must not be used near or below curtains and other combustible materials, such as curtains. (IEC 60335-2-9)		N/A
	For barbecue: WARNING: Charcoal or similar combustible fuels must not be used with this appliance. (IEC 60335-2-9)		N/A
	The instructions for barbecues intended to be used with water shall state the maximum quantity of water to be poured into the appliance. (IEC 60335-2-9)		N/A
	For hotplates having surfaces of glass-ceramic or similar material protecting live parts : WARNING: If the surface is cracked, switch off the appliance to avoid the possibility of electric shock. (IEC 60335-2-9)		N/A
	For induction hotplates: Metallic objects such as knives, forks, spoons and lids should not be placed on the hotplate since they can get hot..... (IEC 60335-2-9)		N/A
	For breadmakers: maximum quantities of flour and raising agent that may be used.... (IEC 60335-2-9)		N/A
	For candy floss appliances shall state the maximum quantities of sugar and other ingredients that may be used. (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	The instructions shall include the substance of the following: (IEC 60335-2-9)		-
	This appliances is intended to be used in household and similar applications such as: -staff kitchen areas in shops, offices and others working environments; -farm houses; -by clients in hotels, motels and other residential type environments; -bed and breakfast type environments.		N/A
	If the use of the appliance is limited to less than the above, this shall be clearly stated in the instructions. (IEC 60335-2-9)		P
7.12.1	Sufficient details for installation supplied		N/A
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		-
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	Replacement cord instructions, type Z attachment		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		N/A
7.12.8	Instructions for appliances connected to the water mains:		-
	- max. inlet water pressure (Pa)..... :		N/A
	- min. inlet water pressure, if necessary (Pa) :		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		P
	These instructions may be supplied with the appliance separately from any functional use booklet		P
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		P
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		P
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD..... :	Website	P
7.13	Instructions and other texts in an official language		P
7.14	Marking clearly legible and durable, rubbing test as specified		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified..... :		N/A
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm :		N/A
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		P
	contrasting colours are used		P
	Markings checked by inspection, measurement and rubbing test as specified		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	The height of the triangle used with symbol IEC 60417-5041(2002-10) shall be at least 20 mm. (IEC 60335-2-9)		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A
	The marking specified for hot surfaces shall be visible when the appliance is operated as in normal used including when actuating any switch, adjusting any control or opening a lid, door or drawer. It shall not be placed on a hot functional surface (IEC 60335-2-9)		P
10	POWER INPUT AND CURRENT		-
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	(see appended table)	P
	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		N/A
	Otherwise the power input is the arithmetic mean value		P
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	the rated power input is related to the arithmetic mean value		P
	Power input of induction hotplates measured separately and the tolerances for motor-operated appliances apply. (IEC 60335-2-9)		N/A
11	HEATING		-
11.1	No excessive temperatures in normal use		P
	Compliance for toasters is also checked by the test of 11.101 (IEC 60335-2-9)		N/A
	Compliance for ovens, rotary grills and cookers is also checked by the test of 11.102. (IEC 60335-2-9)		N/A
	Compliance for contact grills, waffle irons, radiant grills, raclette grills, barbecues, candy floss appliances and hot plates, is also checked by the test of 11.103. (IEC 60335-2-9)		N/A
	Compliance for breadmakers, pop-corn makers, and food dehydrators is also checked by the test of 11.104. (IEC 60335-2-9)		P
	Compliance for roasters is also checked by the test of 11.105. (IEC 60335-2-9)		P
	For all other types of appliances, compliance is checked by submitting the appliance to the tests of the nearest mentioned relevant type of appliance. (IEC 60335-2-9)		N/A
11.2	The appliance is held, placed or fixed in position as described	Appliance is placed away from test walls.	P
	Radiant grills and raclette grills that are loaded from the front, rotary grills, ovens, breadmakers, cookers and hotplates are placed with their backs as near as possible to one of the walls of the test corner and away from the other wall (IEC 60335-2-9)		N/A
	Other appliances are placed away from the walls. (IEC 60335-2-9)		P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		P
	the windings are non-uniform or it is difficult to make the necessary connections		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Where the external accessible surfaces are suitably flat and access permits, then the test probe of Figure 105 is used to measure the temperature rises of external accessible surfaces specified in Table 102. The probe is applied with a force of $4\text{ N} \pm 1\text{ N}$ to the surface in such a way that the best possible contact between the probe and the surface is ensured. (IEC 60335-2-9)		P
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	(see appended table)	P
	Breadmakers are operated as specified for combined appliances. (IEC 60335-2-9)		N/A
	If the temperature rise limits are exceeded in appliances incorporating motors, transformers or electronic circuits, and if the power input is lower than the rated power input, the test is repeated with the appliance supplied at 1,06 times rated voltage (IEC 60335-2-9)		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V).....:		N/A
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V).....:		N/A
	Induction hot plates are also operated with vessels, as specified in Figure 104, containing water and covered with a lid. Controls are adjusted to their highest setting until the water boils and then adjusted so that the water simmers. Water is added to maintain the level during simmering. (IEC 60335-2-9)		N/A
11.7	Tests carried out in compliance with the paragraphs N° 1 to 13 (IEC 60335-2-9)		P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3:	(see appended table)	P
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		P
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	For radiant grills, rotary grills, raclette grills, hotplates and cookers, instead of 65 K, the temperature rise of the wall of the test corner shall not exceed 75 K. (IEC 60335-2-9)		N/A
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-9)		N/A
	The temperature rise limits of motors, transformers, components of electronic circuit and parts directly influenced by them may be exceeded when the appliance is operated at 1,15 times rated power input (IEC 60335-2-9)		N/A
	Cheese used in sandwich toasting attachments shall not flow into places where it could give rise to a hazard, such as reducing clearances or creepage distances below the values specified in Clause 29 (IEC 60335-2-9).		N/A
	The temperature rise limits for touch controls also include all surfaces within 5 mm of the touch controls, regardless of their shape. (IEC 60335-2-9)		P
19	ABNORMAL OPERATION		-
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or		P
	a device that can be placed in the stand-by mode,		P
	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode		P
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that		N/A
	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.		N/A
	Surge protective devices disconnected, unless		P
	They incorporate spark gaps		N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		P
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
19.11.4.3	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		P
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		P
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		P
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		P
	Earthed heating elements in class I appliances disconnected		P
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		P
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		P
	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34		N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		P
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate		P
	The appliance continues to operate normally, or		N/A
	requires a manual operation to restart		P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9 :	(see appended table)	P
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		-
	- basic insulation (V)	1000	P
	- supplementary insulation (V)	1750	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	- reinforced insulation (V)..... :	3000	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage		P
	The appliance does not undergo a dangerous malfunction, and		P
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		-
	- do not become operational, or		P
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		-
	- the lid or door does not move automatically to an open position when the interlock is released, and		P
	- the appliance does not start after the cycle in which the interlock was released		P
	During the test of 19.102 and 19.103, flames from the bread inside the toaster and any smoke from the bread shall be ignored (IEC 60335-2-9)		N/A
	Temperature rise of the windings of induction hotplates not exceeding the values specified in 19.7 (IEC 60335-2-9)		N/A
	The electric strength test of induction hotplates is carried out immediately after switching off the appliance. (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation					P
Input deviation of/at:	P rated (W)	P measured (W)	ΔP	Required ΔP	Remark	
SL45X***** aaa						
230V 50Hz	2470	2442,6	-1,1%	+5%; -10%	P	
230V 60Hz	2470	2443,8	-1,1%	+5%; -10%	P	
SL5XX***** aaa						
230V 50Hz	2470	2399,6	-2,9%	+5%; -10%	P	
230V 60Hz	2470	2400,4	-2,9%	+5%; -10%	P	
SL451ANZ						
230V 50Hz	2270	2161,9	-4,7%	+5%; -10%	P	
230V 60Hz	2270	2154,2	-5,1%	+5%; -10%	P	
220V 50Hz	-	1989,9	-	-	Ref.	
220V 60Hz	-	1990,0	-	-	Ref.	
240V 50Hz	-	2368,1	-	-	Ref.	
240V 60Hz	-	2356,5	-	-	Ref.	
Supplementary information: only the most unfavourable data were recorded.						

11.8	TABLE: Heating test			P
	Test voltage (V)	See below		—
	Ambient (°C)	See below		—
Thermocouple locations		Max. temperature rise measured, ΔT (K)		Max. temperature rise limit, ΔT (K)
-		SL45X***** aaa	SL451ANZ	-
Test voltage		257,2V 3092,9W	264,5V 2842,4W	-
Ambient		21,4 – 21,6	22,0 – 24,3	-
Supply cord		43,7	30,6	T90-25=65
Closed-end connector		58,5	47,4	T105-25=80
X2 capacitor		38,0	35,9	T105-25=80
Varistor		38,0	37,1	T85-25=60
Relay, ambient		41,2	40,4	T105-25=80
Inductor winding		35,8	36,7	65
Y Capacitor		32,0	35,2	T125-25=100

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
Optocoupler	33,3	43,6	T100-25=75
Transformer winding/bobbin	38,4	35,6	85/Cl.30
Power PCB	33,3	37,5	T130-25=105
PW PCBA box	29,8	37,3	Cl.30
Internal wire (to supply cord, heating element, thermal link, hot chamber rear, micro switch)	82,5	67,5	T180-25=155
Internal wire (to probe PCB, NTC)	101,1	42,9	T200-25=175
Internal wire (to UI PCBA)	70,7	65,4	T105-25=80
Motor bobbin	77,1	67,2	Cl.30
PTFE tube on thermal link	117,6	114,7	T200-25=175
Motor bracket	68,6	45,7	Cl.30
Housing right side wall for probe, inside	67,0	59,7	Cl.30
Housing left side wall, inside	63,2	61,1	Cl.30
Top cover, inside	59,1	60,2	Cl.30
Base, inside	62,1	56,8	Cl.30
Rear cover, inside	41,7	42,5	Cl.30
Vent, inside	191,3	77,4	Cl.30
Door frame upper for probe, inside	113,8	84,8	Cl.30
Door frame lower for probe, inside	147,2	83,1	Cl.30
Front panel for probe, inside	43,5	45,5	Cl.30
UI PCBA for probe	48,1	51,4	T130-25=105
Lower ring, inside	161,1	162,4	Cl.30
Micro switch, ambient	78,7	73,7	T120-25=95
Probe jack PCB	54,2	81,7	T130-25=105
Handle	40,2	26,5	60
Handle (plated part)	24,7	22,8	35
Test floor	58,2	61,0	65
Supplementary information: only the most unfavourable data were recorded.			
Test Wattage	2689,5W	2471,7W	-
Ambient	21,4 – 21,6	22,0 – 22,8	-
External plastic and plastic coating >0,3 mm	57,8	56,4	65
Supplementary information: only the most unfavourable data were recorded.			

11.8	TABLE: Heating test, resistance method	P
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IEC 60335-2-9						
Clause	Requirement + Test			Result - Remark		Verdict
	Test voltage (V)			1) 257,2 2) 264,5		—
	Ambient, t1 (°C)			1) 21,4 2) 22,0		—
	Ambient, t2 (°C)			1) 21,6 2) 24,3		—
Temperature rise of winding		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. Δ T (K)	Insulation class
1) Motor winding (SL45X***** aaa)		135.28	186,38	96,5	140	Class 180/H
2) Motor winding (SL451ANZ)		140,5	201,9	105,8	140	Class 180/H
Supplementary information: only the most unfavourable data were recorded.						

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60335-1:2010, IEC 60335-1:2010/AMD1:2013, IEC 60335-1:2010/AMD2:2016 IEC 60335-2-9:2019 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances			
Differences according to	EN IEC 60335-2-9:2023 + A11:2023 used in conjunction with EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023 EN 62233:2008		
TRF template used	IECEE OD-2020-F2:2022, Ed. 1.2		
Attachment Form No.	EU_GD_IEC60335_2_9P		
Attachment Originator	Nemko Group AS		
Master Attachment.....	Dated 2024-05-16		
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	CENELEC COMMON MODIFICATIONS (EN)		-
6.1	Delete “class 0” and “class 01”		P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
	If appliances have accessible surfaces, for which temperature rise limits are specified in Table 102 and for which the provisions of footnote b to Table 102 apply or the value of Table 102+40K is allowed in Clause 11.102, the appliance is marked with symbol IEC 60417-5041(2002-10), the rules of ISO 3864-1 applying except for the specified colours, or		P
	marked with the substance of the following: CAUTION: Hot surfaces		N/A
7.12	The instructions include the substance of the following:		-
	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	- children shall not play with the appliance		P
	- cleaning and user maintenance shall not be made by children without supervision		P
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test, except that		P
	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		N/A
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		P
	parts intended to be removed for user maintenance are also not removed		P
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action		N/A
8.2	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1		P
	Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation		N/A
11.8	Footnote b: When the required values are not met, the maximum temperature rise is not higher than two times the values indicated, as defined for specific appliances		P
11.101	Temperature rises are also not measured on ventilation openings and the surface within 25 mm from the ventilation opening that does not exceed the 20 % of the accessible enclosure surface		N/A
	If the ventilation openings and the surfaces within 25 mm of them exceed 20 % of the accessible enclosure surface, the rest of the surfaces within 25 mm around ventilation openings meet the temperature limits from Table 102		N/A
	For toasters, the footnote b is only applicable for areas as specified		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
11.102	Temperature rises are also not measured on ventilation openings and the surface within 25 mm from the ventilation opening that does not exceed the 20 % of the accessible enclosure surface		N/A
	If the ventilation openings and the surfaces within 25 mm of them exceed 20 % of the accessible enclosure surface, the rest of the surfaces within 25 mm around ventilation openings meet the temperature limits foreseen in this subclause		N/A
	During the test, the temperature rise of the external front, top and rear surfaces touchable by test probe B of EN 61032 does not exceed the values specified in Table 102 + 40 K, except non measured surfaces		N/A
	The temperature rise of other external surfaces do not exceed the values specified in Table 102, except non measured surfaces		N/A
	For ovens, rotary grills and cookers footnote b is only applicable as specified		N/A
11.103	For contact grills, waffle irons, raclette grills, barbecues and radiant grills footnote b is applicable to the entire enclosure		P
	Temperature rises are also not measured on ventilation openings and the surface within 25 mm from the ventilation opening that does not exceed the 20 % of the accessible enclosure surface		P
	If the ventilation openings and the surfaces within 25 mm of them exceed 20 % of the accessible enclosure surface, the rest of the surfaces within 25 mm around ventilation openings meet the temperature limits from Table 102		N/A
11.104	Temperature rises are also not measured on ventilation openings and the surface within 25 mm from the ventilation opening that does not exceed the 20 % of the accessible enclosure surface		N/A
	If the ventilation openings and the surfaces within 25 mm of them exceed 20 % of the accessible enclosure surface, the rest of the surfaces within 25 mm around ventilation openings meet the temperature limits from Table 102		N/A
11.105	Temperature rises are also not measured on ventilation openings and the surface within 25 mm from the ventilation opening that does not exceed the 20 % of the accessible enclosure surface		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	If the ventilation openings and the surfaces within 25 mm of them exceed 20 % of the accessible enclosure surface, the rest of the surfaces within 25 mm around ventilation openings meet the temperature limits from Table 102		N/A
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
20.2	For appliances having hazardous 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		N/A
	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		N/A
	When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled		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		P
22.17	The requirement is not applicable to built-in appliances		N/A
22.44	An appliance is child-appealing if one of the following criteria is present:		-
	- appliance decorated using faces, cartoon like characters, or similar images		N/A
	- appliance using shapes representing animals, characters, persons or scale models		N/A
	An appliance is child-appealing if more than one of the following criteria are present:		-
	- using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance)		N/A
	- using non-functional sound (e.g. music)		N/A
	- using non-functional movement		N/A
	If the appliance is child-appealing and		-
	- has a mass less than 4 kg, and		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	- is mounted or normally intended for use at a height less than 850 mm,		N/A
	the following conditions are met:		N/A
	- surface temperature rise requirements not exceeded		N/A
	- hazardous moving parts not accessible		N/A
	- live parts not accessible		N/A
	- liquid temperature requirement not exceeded,		N/A
	unless for vessels in which two independent and sequential actions are needed to access the liquid		N/A
	- the requirement of 22.12 is applicable for all accessible parts of the appliance		N/A
22.Z01	After the toasting process a maximum of 60 mm of the toast is resting in the toaster slot		N/A
	This may be provided by an additional manual lifting function		N/A
	Requirement is not applicable:		-
	- for appliances which top surface temperatures comply with the temperatures limits in Table 102 without considering the allowance in footnote b		N/A
	- for appliances equipped with sandwich-toasting attachment		N/A
22.Z102	To avoid accidental contact with hot surfaces of raclette appliances, the handle of the pan is clearly identified by tactile means		N/A
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply		P
	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard		N/A
	Relays are tested as part of the appliance according to this standard		P
	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1		P
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance		P

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard		P
	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard		P
	Components that have been tested and shown to comply with the resistance to fire requirements in the EN standard for the relevant component need not be retested provided that:		-
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		N/A
	- the test report for the component states the values of t_e and t_i acc. to EN 60695-2-11		N/A
	If the above two conditions are not satisfied, the component is tested as part of the appliance		N/A
	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard		N/A
	Unless components have been 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		P
	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		P
	Components that have not been tested and found to comply with the relevant EN standard, and		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
	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		N/A
	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		P
	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		N/A
	with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if		N/A
	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		P
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		N/A
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH		P
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or		N/A
	when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard		N/A
	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
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
	unless they are held in place near the terminals independently of the solder		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		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
Annex I, 19.1.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		N/A
	The duration of any of the tests is as specified in 19.7		N/A
			-
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN)		-
			-
	Denmark, Sweden, Norway and Finland		-
7.12.8	The maximum inlet water pressure is at least 1,0 MPa		N/A
			-
	Norway		-
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
			-
	Norway		-
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
			-
	Denmark		-
22.47	The maximum inlet water pressure is at least 1,0 MPa		N/A
			-

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	Ireland, United Kingdom and Cyprus		-
25.8	In the table, the line >10 A and ≤16 A is replaced with:		-
	> 10 and ≤ 13 1,25 (1,0) ^b		N/A
	> 13 and ≤ 16 1,5 (1,0) ^b		N/A
			-
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		-
			-
	Ireland		-
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		N/A
			-
	United Kingdom		-
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.		P
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N/A
			-
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		-
	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		P
			-
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		-
	List of IEC and CENELEC code designations for flexible cords		P
			-
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE		-

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative		N/A
	Model or type reference		N/A
	Serial number, if any		N/A
	Production year		N/A
	Designation of the appliance.....		N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely		N/A
	The instructions contain at least the following information:		-
	- the business name and full address of the manufacturer and, where applicable, his authorized representative		N/A
	- model or type reference of the appliance as marked on the appliance itself, except for the serial number		N/A
	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers		N/A
	- the general description of the appliance, when needed due to the complexity of the appliance		N/A
	- specific precautions required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving		N/A
	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance		N/A
	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance		N/A
	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative		N/A
	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand		N/A
	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures		N/A
7.12.ZE1	If needed for specific appliances, the following information to be given:		-
	- on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts		N/A
	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance		N/A
	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator		N/A
	- on airborne noise emissions, determined and declared in accordance with the relevant Part 2, which includes:		-
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A)		N/A
	- where this level does not exceed 70 dB(A), this fact is indicated		N/A
	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 µPa)		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A)		N/A
7.12.ZE2	The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts		N/A
	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug is such that an operator can check from any of the points to which he has access that the plug remains removed		N/A
	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided		N/A
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or		N/A
	a manual operation is required to restart it		N/A
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance		N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards		N/A
	When guards are used, they are fixed guards, interlocking movable guards or protective devices		N/A
	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible fitted with:		-
	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and		N/A
	- adjustable guards restricting access to those sections of the moving parts where access is necessary		N/A
	Interlocking movable guards used where frequent access is required		N/A
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability		N/A
	The distance between the seat and the control devices capable of being adapted to the operator		N/A
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function		N/A
	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function		N/A
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation		N/A
	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure		N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or		N/A
	so designed that they can be fitted with such attachments, or		N/A
	be shaped in such a way that standard lifting gear can easily be used		N/A
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely		N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to hazardous moving transmission parts only removable with the use of tools		N/A
	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal		N/A
	Where possible, guards are incapable of remaining in place without their fixings		N/A
	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative		N/A
	Movable guards are interlocked		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed		N/A
	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:		-
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and		N/A
	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased		N/A
	Interlocking movable guards remain attached to the appliance when open, and		N/A
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions		N/A
	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2		N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time		N/A
	After these tests the interlock system is fit for further use		N/A
22.ZE.7	Adjustable guards restricting access to areas of the moving parts strictly necessary for the work are:		-
	- adjustable manually or automatically, depending on the type of work involved, and		N/A
	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
22.ZE.9	Appliances fitted with means to isolate them from all energy sources		N/A
	Such isolators are clearly identified, and		N/A
	they are capable of being locked if reconnection endanger persons		N/A
	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A
22.ZE.10	Noise reduction is achieved by applying measures at source to control noise, for example EN ISO 11688-1:2009		N/A
	The success of the applied noise reduction measures is assessed based on the actual noise emission values in relation to other machines of the same type with comparable non-acoustical technical data		N/A
	Compliance is checked by the noise test code, if any, given in part 2		N/A
			-
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD		-
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)		N/A
			-
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		-
	The following modifications to this standard apply to appliances having UV emitters		N/A
	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109		N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source		N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant		N/A
			-

ATTACHMENT TO TRF IEC60335_2_9P			
Clause	Requirement + Test	Result - Remark	Verdict
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries		-
	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:		-
	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4		P
	- for class II appliances, standard sheet EU5, EU6 or EU7		N/A
	There are exemptions or differences in certain CENELEC countries		P
			-
ZI	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A		-
	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1		P
			-
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED		-
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		N/A
			-
	ANNEX EN 62233:2008 + AC:2008 EMF- ELECTROMAGNETICS FIELDS		-
	The tested product also complies with the requirements of EN 62233:2008		-
	Limit 100%	Measured max. : 4,4%	P
			-

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Appendix 2

PHOTOGRAPH ATTACHMENT

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Fig:[1]

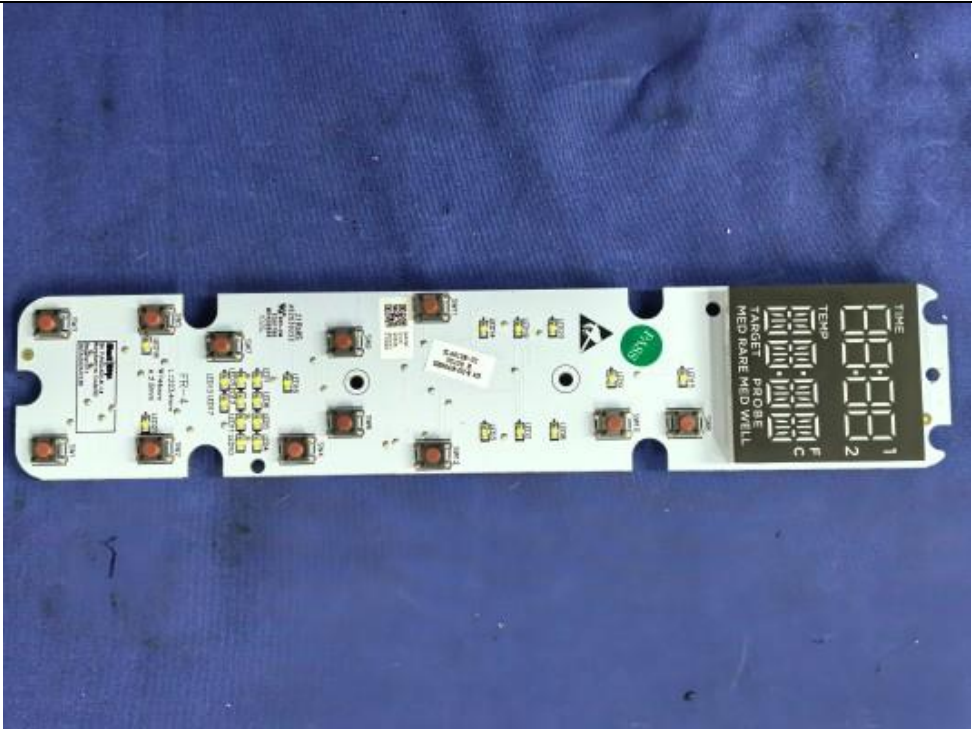
View of model SL5XX**** aaa

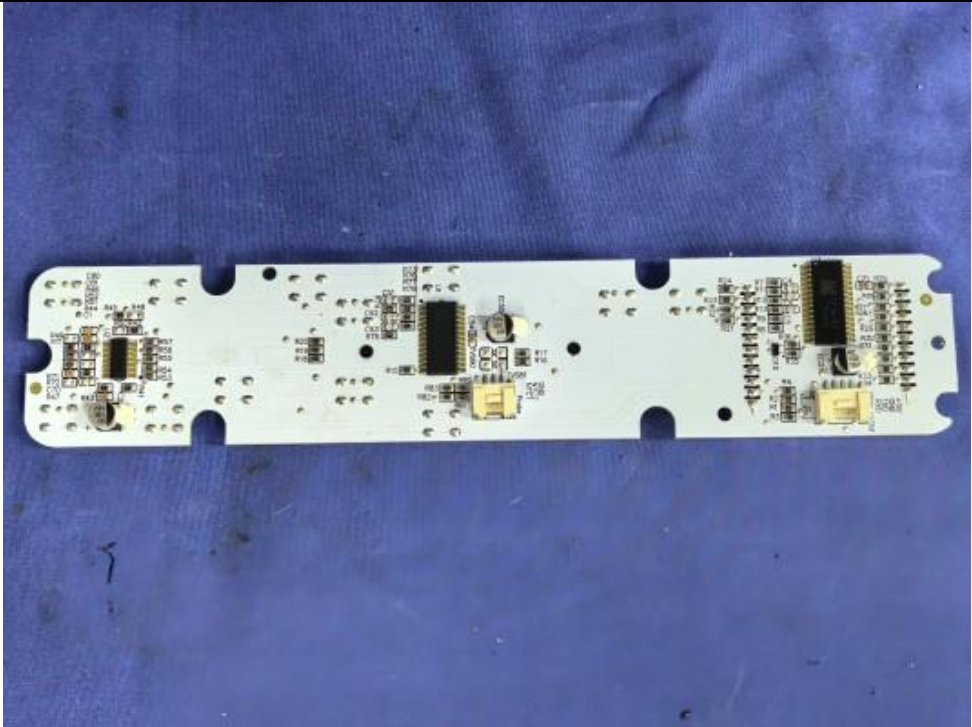


Fig:[2]

UI panel view for model SL5XX**** aaa

PHOTOGRAPH ATTACHMENT

		
Fig:[3]	<u>UI PCBA view for model SL5XX**** aa</u>	

		
Fig:[4]	<u>UI PCBA view for model SL5XX**** aa</u>	