

# REPORT No 11547

*Date of issue: January 7, 2026*

*Status: FINAL REPORT*

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## IEC 60335-2-9

# PARTICULAR REQUIREMENTS FOR GRILLS, TOASTERS AND SIMILAR PORTABLE COOKING APPLIANCES

## Program: SQO-HA5 Round 12

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Prepared by:	Reviewed by:	Approved by:
<b>Valentyn Kravchenko</b> Assistant Technician	<b>Eng. Esteban Di Marco</b> Electromechanical expert	<b>Eng. Emiliano Medina</b> Quality Assurance Lead

# TABLE OF CONTENTS

<b>1. FOREWORD</b>	<b>3</b>
<b>2. ORGANIZATION</b>	<b>3</b>
<b>3. OBJECTIVE</b>	<b>3</b>
<b>4. PARTICIPANTS</b>	<b>4</b>
<b>5. HOMOGENEITY</b>	<b>5</b>
<b>6. SAMPLE INFORMATION</b>	<b>6</b>
<b>7. IMAGES</b>	<b>7</b>
<b>8. ASSIGNED VALUES</b>	<b>7</b>
<b>9. PARTICIPANTS' RESULTS</b>	<b>8</b>
<b>10. STATISTICS</b>	<b>10</b>
<b>11. EVALUATION OF PERFORMANCE</b>	<b>11</b>
<b>12. CONCLUSIONS</b>	<b>11</b>
<b>APPENDICES</b>	
<b>APPENDIX A</b>	
<b>A1 - PARTICIPANT DATA</b>	<b>12</b>
<b>A2 - INSTRUCTIONS</b>	<b>12</b>
<b>A3 - PARTICIPANT RESULTS (TR # 0685.011.3.01)</b>	<b>15</b>
<b>APPENDIX B</b>	<b>40</b>

## 1. FOREWORD

This report summarizes the results of the **SQO-HA5 (Round 12)** proficiency testing program on the determination of safety of household appliance. This program is conducted in a bilateral format, following the A.3.3 classification of the ISO 17043 standard ("Split-sample testing schemes").

**South Quality** conducted the testing program from October to December 2025 with the aim of assessing the laboratory's ability to competently perform the designated tests.

## 2. ORGANIZATION

Program Coordinator: Eng. Esteban Di Marco  
 Assistant Technician: Valentyn Kravchenko  
 Statistic: Lic. Manuel Tozaki  
 Supervision: Eng. Emiliano Medina

## 3. OBJECTIVE

The objective of this proficiency testing program is to determine the safety of household appliances, using the following standard:

Standard
IEC 60335-2-9: 2019

To verify this, batches of toaster samples have been selected.

Participants in this program have not been previously informed about the expected behavior of the samples they receive.

#### 4. PARTICIPANTS

In the present round, 15 companies have participated with the following details:

CODE	Country	ISO 17025 accredited	Results delivered
01	Spain	Yes	Yes
02	England	Yes	Yes
03	Malaysia	Yes	No
04	Mexico	Yes	Yes
05	Türkiye	Yes	Yes
06	Brazil	Yes	Yes
07	Colombia	Yes	Yes
08	Australia	Yes	Yes
09	Italy	Yes	Yes
10	Pakistan	No	Yes
11	Chile	Yes	Yes
12	Canada	Yes	Yes
13	Greece	Yes	Yes
14	Peru	No	No
15	South Africa	Yes	Yes

## 5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was applied, and the samples were selected using random-number-generation software.

The results of this test are presented below:

Size of each batch: **20 units**

Tested samples from each batch: **3 units**

IEC 60335-2-9 CHAPTER NO	SAME RESULTS IN THE SAMPLES TESTED		
	BATCH: LHA2928	BATCH: LHA2929	BATCH: LHA2930
5	YES	YES	YES
6	YES	YES	YES
7	YES	YES	YES
8	YES	YES	YES
9	NA	NA	NA
10	NO	YES	YES
11	YES	YES	YES
13	YES	YES	YES
14	NA	NA	NA
15	YES	YES	YES
16	YES	YES	YES
17	NA	NA	NA
19	YES	NO	YES
20	YES	YES	YES
21	YES	YES	YES
22	YES	YES	YES
23	YES	YES	YES
24	YES	YES	YES

IEC 60335-2-9 CHAPTER NO	SAME RESULTS IN THE SAMPLES TESTED		
	BATCH: LHA2928	BATCH: LHA2929	BATCH: LHA2930
25	YES	YES	YES
26	YES	YES	YES
27	YES	YES	YES
28	YES	YES	YES
29	YES	YES	YES
30	YES	NO	YES
31	NA	NA	NA
32	YES	YES	YES

Samples for this program are taken from the selected batch identified as **LHA2930**.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

## 6. SAMPLE INFORMATION

The following sample was sent for testing (Participant Code 13):

Batch:	LHA2930
Sample ID:	13
Characteristics:	Toaster - 220-240Vca / 50-60Hz / 700W Trademark: NOVOHOME Model: NH-T0025B

## 7. IMAGES



## 8. ASSIGNED VALUES

The assigned values are obtained from the results reported by all participants (**Consensus values**).

## 9. PARTICIPANTS' RESULTS

CHAPTER	REQUIREMENT	LABORATORY CODE													CONSENSUS VALUE
		01	02	04	05	06	07	08	09	10	11	12	13	15	
5	General conditions for the tests	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Classification	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	Marking and instructions	F	F	F	P	F	F	F	F	F	F	F	P	F	F
8	Protection against access to live parts	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Starting of motor-operated appliances	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	Power input and current	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Heating	F	F	F	F	F	F	F	F	F	F	F	P	F	F
13	Leakage current and electric strength at operating temperature	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	Transient overvoltages	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
15	Moisture resistance	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	Leakage current and electric strength	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	Overload protection of transformers and associated circuits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
19	Abnormal operation	P	P	P	P	P	F	P	P	P	F	P	P	P	P
20	Stability and mechanical hazards	P	P	P	P	P	P	P	P	P	P	P	P	P	P

CHAPTER	REQUIREMENT	LABORATORY CODE													CONSENSUS VALUE
		01	02	04	05	06	07	08	09	10	11	12	13	15	
21	Mechanical strength	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	Construction	F	F	F	F	F	F	F	P	F	P	F	F	F	
23	Internal wiring	P	P	P	P	P	P	P	P	P	P	P	P	P	
24	Components	P	P	P	P	P	P	P	P	P	P	P	P	P	
25	Supply connection and external flexible cords	P	P	P	P	P	P	P	P	P	P	P	P	P	
26	Terminals for external conductors	P	P	P	P	P	P	P	P	P	N/A	P	P	P	
27	Provision for earthing	P	P	P	P	P	P	P	P	P	P	P	P	P	
28	Screws and connections	P	P	P	P	P	P	P	P	P	P	P	P	P	
29	Clearances, creepage distances and solid insulation	P	P	P	P	P	P	P	P	P	P	P	P	P	
30	Resistance to heat and fire	P	P	P	F	P	P	P	P	P	F	P	P	P	
31	Resistance to rusting	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	
32	Radiation, toxicity and similar hazards	P	P	P	P	P	P	P	P	P	-	P	P	P	

**References:**

P: PASS  
 F: FAIL  
 NA: NOT APPLICABLE

**NOTE:** Any differences in the test method (voltage or test intensity, cycles, torque, etc.), even if the result matches the assigned value, will be reported in **Annex B** for review by the participating laboratory.

## 10. STATISTICS

The results must be treated as qualitative.

For qualitative results, the comparison will be made directly against the assigned values, so any difference will be evaluated as **Unsatisfactory**.

The comparison is made by assigning to each chapter of the results of each participant, a compliance verdict (PASS or FAIL). A single clause with a FAIL verdict, imposes a FAIL verdict on the corresponding chapter. If NOT APPLICABLE has been indicated in the entire chapter, NA is assigned.

## 11. EVALUATION OF PERFORMANCE

Laboratory Code 01: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 02: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 03: The laboratory did not send the results before the deadline.

Laboratory Code 04: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 05: The laboratory obtained **UNSATISFACTORY** results in the verification of chapters 7 (Marking and instructions) and 30 (Resistance to abnormal heat and to fire). However, **SATISFACTORY** results were obtained for the remaining chapters.

Laboratory Code 06: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 07: The laboratory obtained an **UNSATISFACTORY** result in the verification of chapter 19 (Abnormal operation). However, **SATISFACTORY** results were obtained for the remaining chapters.

Laboratory Code 08: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 09: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 10: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 11: The laboratory obtained **UNSATISFACTORY** results in the verification of chapters 19 (Abnormal operation), 22 (Construction), 26 (Terminals for external conductors), 30 (Resistance to abnormal heat and to fire) and 31 (Resistance to rusting). However, **SATISFACTORY** results were obtained for the remaining chapters.

Laboratory Code 12: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory Code 13: The laboratory obtained an **UNSATISFACTORY** result in the verification of clauses 7 (Marking and instructions) and 11 (Heating). However, **SATISFACTORY** results were obtained for the remaining chapters.

Laboratory Code 14: The laboratory did not send the results before the deadline.

Laboratory Code 15: The laboratory obtained **SATISFACTORY** results in the verification of all chapters.

## 12. CONCLUSIONS

The overall performance in the **SQO-HA5 (Round 12)** program, based on expected results from the participating laboratories, was as follows:

- Participants Codes **01, 02, 04, 06, 08, 09, 10, 12,** and **15** have obtained **SUFFICIENT** performance according to the expected results, and no action is required;
- Participants Codes **05, 07, 11,** and **13** have obtained **INSUFFICIENT** performance with respect to the expected results and must take action in the clauses where their results differ from the expected ones (see Annex B).

The criteria used for the evaluation of the overall performance is the following:

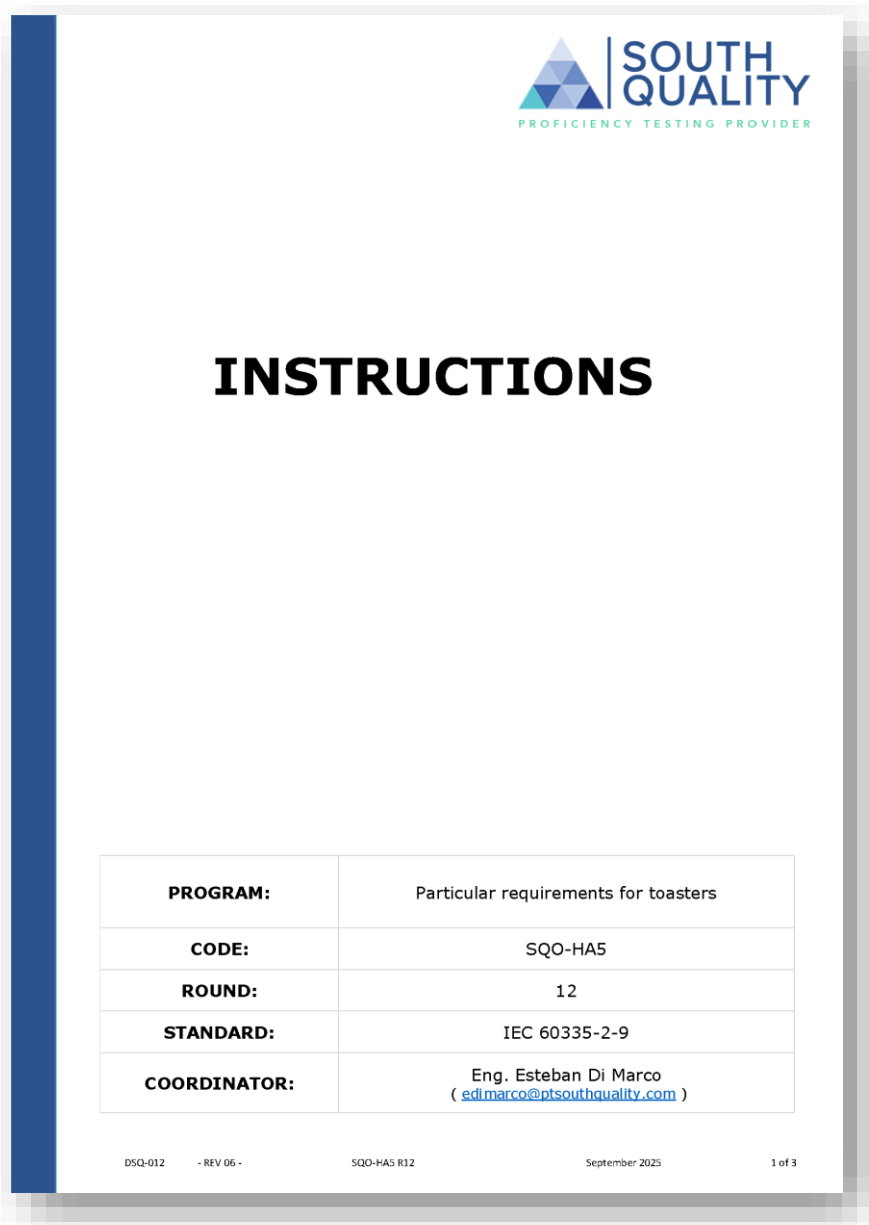
- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

# APPENDIX A

## A1 - PARTICIPANT DATA

Company: **LABOR S.A.**  
Laboratory: LABOR S.A.  
Country: Greece  
Client ID: E474  
Contact person: Ilias Kantas ( Laboratory Manager )  
[ilias.kantas@labor.gr](mailto:ilias.kantas@labor.gr)

## A2 - INSTRUCTIONS



The image shows a document cover for 'INSTRUCTIONS'. At the top right is the South Quality logo. The title 'INSTRUCTIONS' is centered in large bold letters. Below the title is a table with five rows of information. At the bottom of the document, there is a footer with four items: 'DSQ-012 - REV 06 -', 'SQO-HA5 R12', 'September 2025', and '1 of 3'.

<b>PROGRAM:</b>	Particular requirements for toasters
<b>CODE:</b>	SQO-HA5
<b>ROUND:</b>	12
<b>STANDARD:</b>	IEC 60335-2-9
<b>COORDINATOR:</b>	Eng. Esteban Di Marco ( <a href="mailto:edi.marco@ptsouthquality.com">edi.marco@ptsouthquality.com</a> )

DSQ-012 - REV 06 -      SQO-HA5 R12      September 2025      1 of 3

**1 - General**

This document serves as a guide for managing the results of the **SQO-HA5 (Round 12)** program.

**2 - Standard**

**IEC 60335-2-9: 2019**

**3 - Participant**

LABOR S.A.	CODE 13
------------	---------

**4 - Tests involved**

TEST
Complete standard

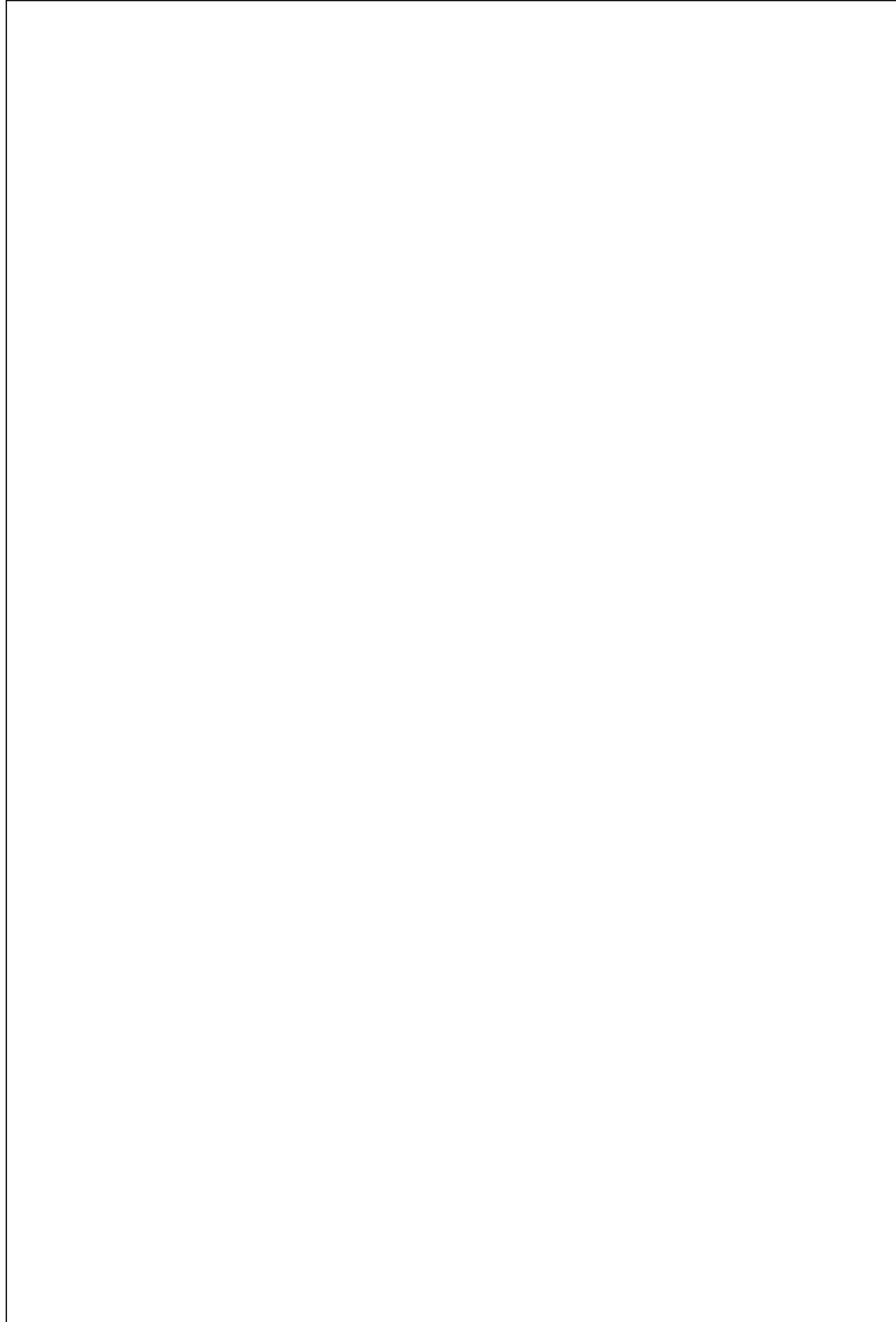
**5 - Samples**

CODE	SAMPLE	QUANTITY
LHA2930-13	Toaster - 220-240Vca - 50-60Hz - 700W Trademark: NOVOHOME Model: NH-T0025B	1


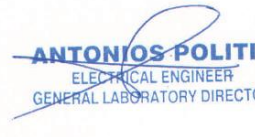
**6 - Notes**

- a) The deadline for the delivery of results is **December 12, 2025**.
- b) The participant must submit the results using the usual report employed by their laboratory. The report must include all verdicts corresponding to each clause and subclause specified for evaluation.
- c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **IEC 60335-2-9**.
- d) The tests must be carried out at **230V - 50Hz**.
- e) The samples must be kept until the end of the program, which closes with the submission of the final report.
- f) To review the results, the submission of images of the tests is appreciated. These images can be attached at the end of this document or sent via email.

**PHOTOGRAPHS**



**A3 - PARTICIPANT RESULTS (TEST REPORT # 0685.011.3.01)**


<b>TEST REPORT</b> <b>IEC 60335-1 &amp; IEC 60335-2-9</b> <b>Safety of household and similar electrical appliances</b> <b>Part 2: Particular requirements for grills, toasters and similar cooking appliances</b>	
Report Number .....	0685.011.3.01
Date of issue .....	11/12/2025
Total number of pages .....	90 (+ attachments 3 pages)
Applicant's name .....	Labor S.A.
Address .....	Ethnikis Antistaseos 84, Pallini, 15351, Greece
<b>Test specification:</b>	
Standard(s) .....	IEC 60335:1:2010 +AMD1:2013 +AMD2:2016 (Edition 5.2) IEC 60335-2-9:2019 (Edition 7.0)
Test procedure .....	as above mentioned standards
Non-standard test method .....	NA
Test Report Form No .....	IEC60335-2-9 V1.0
Test Report Form(s) Originator .....	Labor S.A.
Master TRF .....	02/12/2019
Test item description .....	TWO-SLICE TOASTER
Trade Mark .....	NOVOHOME
Manufacturer .....	NOVOHOME
Model/Type reference .....	NH-T0025B TOSTADORA
Tested by (name + signature) :	Approved by (name + signature) :
 <b>DIAMANTOPOULOS ILIAS</b> TEST ENGINEER	 <b>ANTONIOS POLITIS</b> ELECTRICAL ENGINEER GENERAL LABORATORY DIRECTOR

LABOR S.A. 84, ETHNIKIS ANTISTASEOS STR. – 15351 PALLINI – GREECE  
 TEL.: +30-210-60.33.377 – FAX: +30-210-60.33.378 e-mail: labor@labor.gr, website: [www.labor.gr](http://www.labor.gr)  
 TRF No: IEC60335-2-9 V1.0      Φ0331-1 / ΟΔ 330      page 1 of 90

**Labor s.a.** IEC 60335-2-9 Report No: 0685.011.3.01

**Testing procedure and testing location:**  
 Testing Laboratory.....: LABOR S.A.  
 Testing location/ address.....: 84, ETHNIKIS ANTISTASEOS STR 15351 PALLINI  
 Associated Testing Laboratory.....: NA  
 Testing location/ address.....: NA

**List of Attachments (including a total number of pages in each attachment):**  
 Attachment 1: Instructions (3 pages)

**Summary of testing:**  
 Sample of the product has been tested according to the above mentioned standard and did not comply with it's applicable requirements.

**Tests performed (name of test and test clause):** Testing location:  
 All Clauses LABOR S.A.  
 84, ETHNIKIS ANTISTASEOS STR 15351 PALLINI

**Summary of compliance with National Differences: ----**

**Copy of marking plate:**  
 The sponsor shall provide a draft. The use of prohibition marks on a product must be authorized by the respective NCBS that issue these marks.

LABOR S.A, 84, ETHNIKIS ANTISTASEOS STR – 15351 PALLINI – GREECE  
 TEL: +30-210-60.33.377 – FAX: +30-210-60.33.378 e-mail: labor@labor.gr, website: www.labor.gr  
 TRF No: IEC60335-2-9 V1.0 ©0331-1/03.330 page 2 of 90

**Labor s.a.** IEC 60335-2-9 Report No: 0685.011.3.01

**Possible test case verdicts:**  
 - test case does not apply to the test object..... : NA (Not Applicable)  
 - test object does meet the requirement ..... : P (Pass)  
 - test object is not tested the requirement..... : NT (Not Tested)  
 - test object does not meet the requirement..... : F (Fail)

**Testing:**  
 Date of receipt of test item ..... : 17/10/2025  
 Date (s) of performance of tests ..... : 03/11/2025 – 10/12/2025

**General remarks:**  
 The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.  
 This test report does not entitle to carry or approval any safety mark on this or similar(s) products

**General product information:**  
 Toaster – 220-240V -50/60Hz – 700W, class II.  
 Product was tested at 230V - 50Hz as required by instructions of the Test Program.

LABOR S.A, 84, ETHNIKIS ANTISTASEOS STR – 15351 PALLINI – GREECE  
 TEL: +30-210-60.33.377 – FAX: +30-210-60.33.378 e-mail: labor@labor.gr, website: www.labor.gr  
 TRF No: IEC60335-2-9 V1.0 ©0331-1/03.330 page 3 of 90

**Labor s.a.** IEC 60335-2-9 Report No: 0685.011.3.01

Clause	Requirement - Test	Result - Remark	Verdict
<b>5</b>	<b>General Conditions for the tests</b>		-
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		P
5.2	See Note 101 If the test of 15.101 has to be carried out, three additional samples are required (IEC 60335-2-9)		NA
5.3	If it is evident from the construction of the appliance that the test of one function will produce more favourable results than another, this function is not tested. (IEC 60335-2-9)		NA
5.6	If two or more cooking functions can be performed simultaneously, they are tested at the same time. (IEC 60335-2-9)		NA
5.101	Induction hotplates are operated as specified for motor-operated appliances. Other appliances are tested as specified for heating appliances, even if they incorporate motors (IEC 60335-2-9)	Toaster	P
	In appliances that incorporate induction hotplates in addition to other heating elements, the induction hotplates are operated simultaneously and supplied separately (IEC 60335-2-9)		NA
<b>6</b>	<b>Classification</b>		
6.1	Appliances shall be of one of the following classes with respect to protection against electric shock: Class I, Class II, Class III.	Class I	P
6.1	If an appliance consists of a part of class III construction and a detachable power supply part, the complete appliance is classified as a class I appliance or class II appliance in accordance with the classification applicable to its detachable power supply part.		NA

TRF No: IEC60335-2-9 V1.0 page 4 of 90

**Labor s.a.** IEC 60335-2-9 Report No: 0685.011.3.01

Clause	Requirement - Test	Result - Remark	Verdict
6.2	Appliances shall have the appropriate degree of protection against harmful ingress of water.	IPX0	NA
6.2	Appliances intended for outdoor use shall be at least IPX4 (IEC 60335-2-9)		NA
<b>7</b>	<b>Marking and instructions</b>		
7.1	Appliances shall be marked with the rated voltage or rated voltage range in volts.	220-240V	P
7.1	Appliances shall be marked with the symbol for nature of supply, unless the rated frequency is marked.	50/60Hz	P
7.1	Appliances shall be marked with the rated power input in watts or rated current in amperes.	700W	P
7.1	Appliances shall be marked with the name, trade mark or identification mark of the manufacturer or responsible vendor.		P
7.1	Appliances shall be marked with the model or type reference.		P
7.1	Appliances shall be marked with the symbol (IEC 60417-5172 (2003-02)) for class II appliances only.		NA
7.1	Appliances shall be marked with the IP number according to degree of protection against ingress of water, other than IPX0.	IPX0	NA
7.1	Appliances shall be marked with the symbol IEC 60417-5180 (2003-02), for class III appliances. This marking is not necessary for appliances operated only by batteries (primary batteries or secondary batteries recharged outside of the appliance) or appliances powered by rechargeable batteries recharged in the appliance.		NA

TRF No: IEC60335-2-9 V1.0 page 5 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
7.1	Class II appliances and class III appliances incorporating a functional earth shall be marked with the symbol IEC 6041 7-501 8 (2011-07).		NA		
7.1	The enclosure of electrically-operated water valves incorporated in external hose-sets for connection of an appliance to the water mains shall be marked with symbol IEC 60417-5036 (DB:2002-10) if their working voltage exceeds extra-low voltage.		NA		
7.1	The rated power input or rated current of induction hotplates shall also be marked. (IEC 60335-2-9)		NA		
7.1	Appliances intended to be partially immersed in water for cleaning shall be marked with the maximum level of immersion and the substance of following: Do not immerse beyond this level. (IEC 60335-2-9)		NA		
7.1	If appliances have accessible surfaces, for which temperature rise limits are specified and for which the provisions of footnote b to Table 102 apply, then the appliance shall be marked with the symbol IEC 60417-5041(2002-10), the rules of ISO 3664-1 applying except for the specified colours, or marked with the substance of the following: CAUTION: Hot surfaces (IEC 60335-2-9)		NA		
7.2	Stationary appliances for multiple supply shall be marked with the substance of the following: <b>Warning:</b> Before obtaining access to terminals, all supply circuits must be disconnected. This warning shall be placed in the vicinity of the terminal cover.		NA		

TRF No: IEC60335-2-9 V1.0

page 6 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
7.3	Appliances having a range of rated values and which can be operated without adjustment throughout the range shall be marked with the lower and upper limits of the range separated by a hyphen (-) Example: 115-230 V		P		
7.3	Appliances having different rated values and which have to be adjusted for use at a particular value by the user or installer shall be marked with the different values separated by an oblique stroke (/) Example: 115/230 V	No adjustment possible	NA		
7.4	If the appliance can be adjusted for different rated voltages or rated frequencies, the voltage or the frequency to which the appliance is adjusted shall be clearly discernible. If frequent changes in voltage setting or frequency setting are not required, this requirement is considered to be met if the rated voltage or rated frequency to which the appliance is to be adjusted can be determined from a wiring diagram fixed to the appliance		NA		
7.5	For appliances marked with more than one rated voltage or with one or more rated voltage ranges, the rated power input or rated current for each of these voltages or ranges shall be marked.		NA		
7.5	If the difference between the limits of a rated voltage range does not exceed 10 % of the arithmetic mean value of the range, the marking for rated power input or rated current may be related to the arithmetic mean value of the range.		P		
7.5	The upper and lower limits of the rated power input or rated current shall be marked on the appliance so that the relation between input and voltage is clear.		NA		
7.8	When symbols are used, they shall be as mentioned in this clause.		P		

TRF No: IEC60335-2-9 V1.0

page 7 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
7.6	The symbol for nature of supply shall be placed next to the marking for rated voltage.	See marking plate. Marked with rated frequency.	P		
7.6	The symbol for class II appliances shall be placed so that it will be obvious that it is a part of the technical information and is unlikely to be confused with any other marking.		NA		
7.6	Units of physical quantities and their symbols shall be those of the international standardized system.	The units are in accordance with the international standardized system (V, Hz, W).	P		
7.7	Appliances to be connected to more than two supply conductors and appliances for multiple supply shall have a connection diagram fixed to them, unless the correct mode of connection is obvious.		NA		
7.8	Except for type Z attachment, terminals used for connection to the supply mains shall be indicated as follows: - terminals intended exclusively for the neutral conductor shall be indicated by the letter N; - protective earthing terminals shall be indicated by symbol IEC 60417- 501 9 (2009-08). - functional earthing terminals shall be indicated by symbol IEC 6041 7-501 8 (2011-07) These indications shall not be placed on screws, removable washers or other parts which can be removed when conductors are being connected.	Type Y attachment No terminals intended exclusively for neutral conductor. Protective earthing terminal inside the device marked properly. No functional earthing terminal.	P		
7.9	Unless it is obviously unnecessary, switches which may give rise to a hazard when operated shall be marked or placed so as to indicate clearly which part of the appliance they control. Indications used for this purpose shall, wherever practicable, be comprehensible without a knowledge of languages or national standards.	No such switches	NA		

TRF No: IEC60335-2-9 V1.0

page 8 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
7.10	The different positions of switches on stationary appliances and the different positions of controls on all appliances shall be indicated by figures, letters or other visual means.	Control indicates "cancel" and other positions using numbers	P		
7.10	If figures are used for indicating the different positions, the off position shall be indicated by the figure 0 and the position for a higher value, such as output, input, speed or cooling effect, shall be indicated by a higher figure.		NA		
7.10	The figure 0 shall not be used for any other indication unless it is positioned and associated with other numbers so that it does not give rise to confusion with the indication of the off position.		P		
7.11	Controls intended to be adjusted during installation or in normal use shall be provided with an indication for the direction of adjustment.	Numbers used	P		
7.12	Instructions shall be provided with the appliance so that the appliance can be used safely.	Instructions provided with the appliance.	P		
7.12	If it is necessary to take precautions during user maintenance, appropriate details shall be given.	Care and cleaning instructions provided	P		
7.12	The instructions shall include the substance of the following: This appliance is not intended for use 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 concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.	Included in the instructions	P		

TRF No: IEC60335-2-9 V1.0

page 9 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
7.12	The instructions for appliances having a part of class III construction supplied from a detachable power supply unit shall state that the appliance is only to be used with the power supply unit provided with the appliance.	No detachable power supply unit	NA
7.12	The instructions for class III appliances shall state that it must only be supplied at safety extra low voltage corresponding to the marking on the appliance. This instruction is not necessary for battery-operated appliances if the battery is a primary battery or secondary battery charged outside of the appliance		NA
	For appliances intended for use at altitudes exceeding 2 000 m, the maximum altitude of use shall be stated.		NA
	The instructions for appliances incorporating a functional earth shall state the substance of the following: This appliance incorporates an earth connection for functional purposes only.		NA
7.12	Appliance with inlet and intended to be immersed for cleaning, instruction sheet including in substance: - remove connector before cleaning - dry appliance inlet before re-use (IEC 60335-2-9)		NA
	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)		NA

TRF No: IEC60335-2-9 V1.0

page 10 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	Instructions for appliances for outdoor use: - The appliance is suitable for outdoor use - The supply cord should be regularly examined for signs of damage, and if the cord is damaged, the appliance must not be used - The appliance must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA - The appliance is to be connected to a socket outlet having an earthing contact (class I) (IEC 60335-2-9)	Indoor use only	NA
	If symbol IEC 60417-5041 (2002-10) is marked on appliances, its meaning shall be explained (IEC 60335-2-9)		NA
	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)	Included in the instructions	P
	Instructions for use include: (IEC 60335-2-9)		P
	Details on how to clean surfaces in contact with food. For toasters, they shall include details on how to remove breadcrumbs, when applicable. (IEC 60335-2-9)	Included in the instructions	P
	For toaster: Bread may burn. Therefore toasters must not be used near or below curtains and other combustible materials. They must be watched (IEC 60335-2-9)	Included in the instructions	P
	For barbecue: WARNING: Charcoal or similar combustible fuels must not be used with this appliance. (IEC 60335-2-9)		NA

TRF No: IEC60335-2-9 V1.0

page 11 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	For barbecue: Maximum quantity of water to be poured into the appliance (IEC 60335-2-9)		NA
	If top surface of a hotplate is of glass-ceramic or similar material and protects live parts, warning: If the surface is cracked, switch off the appliance to avoid the possibility of electric shock. (IEC 60335-2-9)		NA
	For induction hotplates: Metallic objects such as knives, forks, spoons and lids not be placed on the hotplate since they can get hot. (IEC 60335-2-9).		NA
	For breadmakers: maximum quantities of flour and raising agent that may be used ... (IEC 60335-2-9)		NA
	The instructions for candy floss appliances shall state the maximum quantities of sugar and other ingredients that may be used. .... (IEC 60335-2-9)		NA
	Instructions shall include the substance of the following (IEC 60335-2-9)		P
	This appliance 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 (IEC 60335-2-9)	Instructions mention that: The appliance is intended for household use only, which is stricter than the requirement.	P
7.12.1	If it is necessary to take precautions during installation of the appliance, appropriate details shall be given.		NA


TRF No: IEC60335-2-9 V1.0

page 12 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
7.12.1	If an appliance is intended to be permanently connected to the water mains and not connected by a hose-set, this shall be stated.		NA
7.12.1	For appliances marked with different rated voltages or different rated frequencies (separated by a /), instructions shall be included to indicate to the user or installer what action must be taken to adjust the appliance for operation at the required rated voltage or rated frequency.		NA
7.12.2	If a stationary appliance is not fitted with a supply cord and a plug, or with other means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over-voltage category III conditions, the instructions shall state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.		NA
7.12.3	If the insulation of the fixed wiring supplying an appliance for permanent connection to the supply mains can come into contact with parts having temperature rise exceeding 50 K during the test of clause 11, the instructions shall state that the fixed wiring insulation must be protected, for example, by insulating sleeving having an appropriate temperature rating.		NA
7.12.4	The instructions for built-in appliances shall include information with regard to the following: - dimensions of the space to be provided for the appliance. - dimensions and position of the means for supporting and fixing the appliance within this space. - minimum distances between the various parts of the appliance and the surrounding structure.		NA


TRF No: IEC60335-2-9 V1.0

page 13 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
	- minimum dimensions of ventilating openings and their correct arrangement.		NA
	- connection of the appliance to the supply mains and the interconnection of any separate components.		NA
	- necessity to allow disconnection of the appliance from the supply after installation, unless the appliance incorporates a switch complying with 24.3. The disconnection may be achieved by having the plug accessible or by incorporating a switch in the fixed wiring in accordance with the wiring rules.		NA
7.12.5	For appliances with type X attachment having a specially prepared cord, the instructions shall contain the substance of the following. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.		NA
7.12.5	For appliances with type Y attachment, the instructions shall contain the substance of the following. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.	Included in the instructions	P
7.12.5	For appliances with type Z attachment, the instructions shall contain the substance of the following. The supply cord cannot be replaced. If the cord is damaged the appliance should be scrapped.		NA


TRF No: IEC60335-2-9 V1.0

page 14 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
7.12.6	The instructions for heating appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains shall contain the substance of the following: <b>CAUTION:</b> In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.		NA
7.12.7	The instructions for fixed appliances shall state how the appliance is to be fixed to its support.		NA
7.12.8	The instructions for appliances connected to the water mains shall state - the maximum inlet water pressure, in pascals, - the minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance.		NA
7.12.8	The instructions for appliances connected to the water mains by detachable hose-sets shall state that the new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.		NA
7.12.9	For each language, the instructions specified in 7.12 and from 7.12.1 to 7.12.8 shall appear together before any other instructions supplied with the appliance. Alternatively, these instructions may be supplied with the appliance separately from any functional use booklet. They may follow the description of the appliance that identifies parts, or follow the drawing/sketches common to the languages of the instructions.		P


TRF No: IEC60335-2-9 V1.0

page 15 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
7.12.9	In addition, instructions shall also be available in an alternative format such as on a website or on request from the user in a format such as a DVD.	There is no evidence for checking compliance with this requirement.	NT
7.13	Instructions and other text required by this standard shall be written in an official language of the country in which the appliance is to be sold.	Instructions and other text are written in English.	P
7.14	The markings required by the standard shall be clearly legible and durable.	Successfully subjected to relevant test.	P
7.14	The signal words WARNING, CAUTION, DANGER if in the Latin alphabet shall be in uppercase having a height not less than - 3.5 mm for appliances normally used on the floor; - 2.0 mm for portable appliances with a printable surface of less than 10 cm <sup>2</sup> ; and - 3.0 mm for other appliances. Uppercase letter of the text explaining the signal word shall be no smaller than 1.6 mm, with other letters according to the font size of the uppercase letter. Countries that do not use the Latin alphabet need to specify the minimum size of the script to be used taking into account what is specified for the Latin alphabet. Unless contrasting colours are used, moulded in, engraved, or stamped markings shall be either raised above or have a depth below the surface of at least 0.25 mm	Word WARNING in uppercase with height > 3.0mm (raised above)	P

TRF No: IEC60335-2-9 V1.0

page 16 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
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)		NA
7.15	The markings specified in 7.1 to 7.5 shall be on a main part of the appliance.	Attached on main part	P
7.15	Markings on the appliance shall be clearly discernible from the outside of the appliance but, if necessary, after removal of a cover.		P
7.15	For portable appliances it shall be possible to remove or open this cover without the aid of a tool.		NA
7.15	For stationary appliances at least the name or trade mark or identification mark of the manufacturer or responsible vendor and the model or type reference shall be visible when the appliance is installed as in normal use. These markings may be beneath a detachable cover. Other markings may be beneath a cover only if they are near to the terminals.		NA
7.15	For fixed appliances, this requirement applies after the appliance has been installed according to the instructions provided with the appliance.		NA
7.15	Indications for switches and controls shall be placed on or near these components. They shall not be placed on parts which can be positioned or repositioned in such a way that the marking is misleading.		P
7.15	The symbol IEC 60417-5018 (2011-07) shall be placed next to the symbol IEC 60417-5172 (2003-02) or the symbol IEC 60417-5180 (2003-02) as appropriate		NA

TRF No: IEC60335-2-9 V1.0

page 17 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	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 or door. It shall not be placed on a hot functional surface (IEC 60335-2-9)		NA
7.16.	If compliance with this standard depends upon the operation of a replaceable thermal link or fuse link, the reference number or other means for identifying the link shall be marked at such a place that it is clearly visible when the appliance has been dismantled to the extent necessary for replacing the link.		NA
7.101	The cooking zone of hot plates shall be identified by appropriate marking unless it is obvious (IEC 60335-2-9)		NA
<b>8. Protection against access to live parts</b>			
8	Appliances shall be constructed and enclosed so that there is adequate protection against accidental contact with live parts.	Complies with the requirements of this paragraph	P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Lamps behind a detachable cover not removed, if conditions met		NA
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		NA
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		P

TRF No: IEC60335-2-9 V1.0 page 18 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	For toasters having a crumb tray: use of test probe 41 of IEC 61032: no contact through crumb tray with live parts that are disconnected by double pole switch using (IEC 60335-2-9)		P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	Class II construction where plastic enclosure is used as supplementary insulation	P
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements		P
	If a single switching action is obtained by a switching device, the switching device shall provide full disconnection and the clearances shall be adequate		NA
	For toasters it is not necessary for the heating element switching device to provide full disconnection or meet the clearances for full disconnection.		P


TRF No: IEC60335-2-9 V1.0 page 19 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
8.1.4	Accessible part not considered live if: <ul style="list-style-type: none"> <li>- safety extra-low a.c. voltage: peak value not exceeding 42.4 V</li> <li>- safety extra-low d.c. voltage: not exceeding 42.4 V</li> <li>- or separated from live parts by protective impedance</li> </ul> If protective impedance: d.c. current not exceeding 2 mA, and a.c. peak value not exceeding 0.7 mA <ul style="list-style-type: none"> <li>- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 µF</li> <li>- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 µC</li> <li>- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ</li> </ul>		NA
8.1.5	Live parts of built-in appliances, fixed appliances and appliances delivered in separate units, shall be protected at least by basic insulation before installation or assembly.		NA
8.2	Class II appliances and class II constructions shall be constructed and enclosed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only. It shall only be possible to touch parts which are separated from live parts by double insulation or reinforced insulation.	Complies with the requirements of this paragraph	P
<b>9. Starting of motor-operated appliances</b>			
	Requirements and tests are specified in part 2 when necessary.		NA
<b>10. Power input and current</b>			

TRF No: IEC60335-2-9 V1.0 page 20 of 90


Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
10.1	The power input at normal operating temperature shall not deviate from the rated power input by more than the deviation 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		NA
	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 the rated power input is related to the arithmetic mean value		NA
	Power input of induction hotplates measured separately and the tolerances for motor-operated appliances apply. (IEC 60335-2-9)		NA
10.2	If an appliance is marked with rated current, the current at normal operating temperature shall not deviate from the rated current by more than the deviation shown in table 2	(see appended table)	NA
	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		NA
	Otherwise the current is the arithmetic mean value		NA

TRF No: IEC60335-2-9 V1.0 page 21 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless the rated current is related to the arithmetic mean value of the range		NA
	Current input of induction hotplates measured separately and the tolerances for motor-operated appliances apply (IEC 60335-2-9)		NA
<b>11.</b>	<b>Heating</b>		
11.1	Appliances and their surroundings shall not attain excessive temperatures in normal use.	(see appended table)	P
11.2	The appliance is held, placed or fixed in position as described.	Toaster placed in test surface	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)		NA
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless the windings are non-uniform or it is difficult to make the necessary connections	Measurement of temperature rise of windings with the use of thermocouples due to its difficulty to make the necessary connections.	NA
	For flat surfaces, temperature rises are measured using the probe of Figure 105. 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


TRF No: IEC60335-2-9 V1.0

page 22 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W)	1.15x700W=805W	P
	Breadmakers are operated as specified for combined appliances. (IEC 60335-2-9)		NA
	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)		NA
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)		NA
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)		NA
	Induction hot plates are also operated with vessels 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		NA
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 if there is doubt with regard to classification of insulation, tests of Annex C are carried out		NA
	Sealing compound does not flow out		P


TRF No: IEC60335-2-9 V1.0

page 23 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
	Protective devices do not operate, except components in protective electronic circuits tested for the number of cycles specified in 24.1.4		P
	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)		NA
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-9)		NA
	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)		NA
	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).		NA
	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
11.101	Toasters are placed as specified in 11.2 and are operated for three cycles at rated power under normal operation (IEC 60335-2-9).	See appended table	P
	During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102 (IEC 60335-2-9).		P

TRF No: IEC60335-2-9 V1.0

page 24 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
11.102	Ovens, rotary grills and cookers are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation (IEC 60335-2-9)		NA
	Appliances are operated until steady conditions are established or for 60 min, whichever is shorter. During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102. (IEC 60335-2-9)		NA
	Ovens having settings higher than 240 °C are also operated at the maximum setting until steady conditions are established or for 60 min, whichever is shorter. The temperature rise limits of Table 102 for top surfaces and door surfaces are increased by 10 K. (IEC 60335-2-9)		NA
11.103	Contact grills, waffle irons, radiant grills, raclette grills, barbecues, candy floss appliances and hot plates are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation. (IEC 60335-2-9)		NA
	During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.		
11.104	Breadmakers, pop-corn makers and food dehydrators are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation. (IEC 60335-2-9)		NA
	During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.		

TRF No: IEC60335-2-9 V1.0

page 25 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
11.105	Roosters are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation. (IEC 60335-2-9) During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.		NA
13.	Leakage current and electric strength at operating temperature		
13.1.	At operating temperature, the leakage current of the appliance shall not be excessive and the electric strength shall be adequate	(see appended tables)	P
	Heating appliances operated at 1.15 times the rated power input (W)		P
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V)		NA
	Three-phase appliances, which according to the instructions for installation are also suitable for single-phase supply, are tested as single-phase appliances with the three circuits connected in parallel.		NA
	Protective impedance and radio interference filters disconnected before carrying out the tests		NA
	Grill incorporated in oven, oven or grill operated most unfavourable (IEC 60335-2-9).		NA
	Induction wok hotplates are operated with the wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale. (IEC 60335-2-9).		NA
13.2	The leakage current measured by means of the circuit described in figure 4 of IEC 60900	Figure 4 used	P

TRF No: IEC60335-2-9 V1.0

page 26 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	For class II and class I appliances, a low impedance ammeter may be used		NA
	Leakage current measurements	See appended table	P
	If earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn connected to earthed metal not exceeding 0.75 mA (IEC 60335-2-9)		NA
	If no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn not exceeding 0.25 mA (IEC 60335-2-9)		NA
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4 :	See appended table	P
	Test voltage of 1000V if earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate (IEC 60335-2-9).		NA
	Test voltage of 3000 V if no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate (IEC 60335-2-9).		NA
	No breakdown during the tests		P
14	Transient overvoltages		
14.	Appliances shall withstand the transient overvoltages to which they may be subjected.	The device complies with the values of Table 16 for clearances.	NA
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6		NA

TRF No: IEC60335-2-9 V1.0

page 27 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	No flashover during the test, unless of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		NA
15.	Moisture resistance		
15.1.	The enclosure of the appliance shall provide the degree of protection against moisture in accordance with the classification of the appliance (IP CODE).	Classified as IP X0	P
15.2.	Appliances subject to spillage of liquid in normal use shall be constructed so that such spillage does not affect their electrical insulation.		NA
15.3.	Appliances shall be proof against humid conditions that may occur in normal use.		P
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		P
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	No detachable parts	NA
	Humidity test for 48 h in a humidity cabinet	25 °C, 93 % R.H.	P
	Reassembly of those parts that may have been removed		NA
	The appliance withstands the tests of clause 16		P
15.101	Appliances to be immersed in water for cleaning sufficiently protected against effects of immersion (IEC 60335-2-9)		NA
	Testing conditions and scheduling as specified		NA
	No trace of water on insulation which can result in reduction of creepage distances and clearance below values specified in 29		NA
16.	Leakage current and electric strength		


TRF No: IEC60335-2-9 V1.0

page 28 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
16.1	The leakage current of the appliance shall not be excessive and its electric strength shall be adequate	(see appended table)	P
	Protective impedance disconnected from live parts before carrying out the tests		NA
	Tests carried out at room temperature and not connected to the supply		P
	For hotplates, the tests are carried out with a vessel as specified for normal operation placed on each cooking zone (IEC 60335-2-9).		NA
	Induction wok hotplates are operated with the wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale. (IEC 60335-2-9).		NA
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	1.06 x 230 = 243.8V	P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)		NA
	Leakage current measurements	See appended table	P
	Limit values doubled if: - all controls have an off position in all poles, or - the appliance has no control other than a thermal cut-out, or - all thermostats, temperature limiters and energy regulators do not have an off position, or - the appliance has radio interference filters		NA
	With the radio interference filters disconnected, the leakage current does not exceed limits specified		NA


TRF No: IEC60335-2-9 V1.0

page 29 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
	If earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn connected to earthed metal not exceeding 0.75 mA (IEC 60335-2-9)		NA
	If no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn not exceeding 0.25 mA (IEC 60335-2-9)		NA
16.3	Electric strength tests according to table 7	See appended table	P
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified		P
	Test voltage of 1250 V if earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate. (IEC 60335-2-9)		NA
	Test voltage of 3000 V if no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate. (IEC 60335-2-9)		NA
	No breakdown during the tests		P
17	<b>Overload protection of transformers and associated circuits</b>		
17.	Appliances incorporating circuits supplied from a transformer shall be constructed so that in the event of short circuits which are likely to occur in normal use, excessive temperatures do not occur in the transformer or in the circuits associated with the transformer.		NA
18	<b>Endurance</b>		
	Requirements and tests are specified in part 2 when necessary		NA


TRF No: IEC60335-2-9 V1.0

page 30 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
19.	<b>Abnormal operation</b>		
19.1	Appliances shall be constructed so that as a result of abnormal or careless operation, the risk of fire, mechanical damage impairing safety or protection against electric shock is obviated as far as is practicable.	Subjected to the relevant tests of this paragraph. No emission of flames, molten material or poisonous gas in hazardous amounts (See appended table)	P
19.1	Electronic circuits shall be designed and applied so that a fault condition will not render the appliance unsafe with regard to electric shock, fire hazard, mechanical hazard or dangerous malfunction.		P
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):	0.85 x 700 = 595W	P
	Radiant grills, raclette grills that are loaded from the front, rotary grills, ovens, hotplates and cookers are placed as near as possible to the walls of the test corner. (IEC 60335-2-9)		NA
	Appliances are tested empty with lids open or closed whichever is the more unfavourable (IEC 60335-2-9)	Tested empty	-
	Hotplates are operated without a vessel and with the controls adjusted to the highest setting (IEC 60335-2-9)		NA
	Cookers are only tested with the heating unit that results in the most unfavourable conditions, their controls adjusted to the highest setting. However ovens are operated if they do not have an indicating lamp to show when they are switched on, controls adjusted to the highest setting (IEC 60335-2-9)		NA
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W)	1.24 x 700 W = 868W	P


TRF No: IEC60335-2-9 V1.0

page 31 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited		NA
	Air-circulating fans of food dehydrators disconnected (IEC 60335-2-9)		NA
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath		NA
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		NA
	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		NA
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions		NA
	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)		NA
19.7	The appliance is operated under stalled conditions as specified		NA
	During the test, the temperature of the windings shall not exceed the relevant value specified in Table 8.		NA
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		NA

TRF No: IEC60335-2-9 V1.0

page 32 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously		NA
	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test		NA
	Winding temperatures not exceeding values as specified		NA
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V)		NA
	During the test, parts not being ejected from the appliance		NA
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 19.11.1	See 19.11.2	P
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless restarting does not result in a hazard		NA
	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		NA
	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		NA

TRF No: IEC60335-2-9 V1.0

page 33 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	During and after each test the following is checked: - the temperature of the windings do not exceed the values specified in table 8 - the appliance complies with the conditions specified in 19.13 - any current flowing through protective impedance not exceeding the limits specified in 8.1.4		P
	If a conductor of a printed board becomes open-circuited, the appliance is considered to have withstood the particular test, provided both of the following conditions are met: - the base material of the printed circuit board withstands the test of Annex E - any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29		NA
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to circuits or parts of circuits meeting both of the following conditions: - the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified - 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		NA
19.11.2	Fault conditions applied one at a time, the appliance operating under conditions specified in clause 11, but supplied at rated voltage, duration of the tests as specified:	Fault conditions of electronic circuit applied one at a time.	P

TRF No: IEC60335-2-9 V1.0

page 34 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29		NA
	b) open circuit at the terminals of any component		P
	c) short circuit of capacitors, unless they comply with IEC 60384-14		P
	d) short circuit of any two terminals of an electronic component, other than integrated circuits This fault condition is not applied between the two circuits of an optocoupler		P
	e) failure of triacs in the diode mode		NA
	f) failure of microprocessors and integrated circuits		NA
	g) failure of an electronic power switching device		NA
	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		-
	For toasters having devices with an off position obtained by electronic disconnection, the fault conditions a) to g) are also simulated with the appliance supplied at rated voltage but with the controls switched off. Heating elements shall not become energised. (IEC 60335-2-9)		NA
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to g) of 19.11.2		NA

TRF No: IEC60335-2-9 V1.0

page 35 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or a device that can be placed in the stand-by mode, subjected to the relevant tests		NA
	Appliances incorporating a protective electronic circuit subjected to the relevant tests		NA
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		NA
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, as specified		NA
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified		NA
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, as specified		NA
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		NA
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		NA
	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		NA
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		NA


TRF No: IEC60335-2-9 V1.0

page 36 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate		NA
	The appliance continues to operate normally, or requires a manual operation to restart		NA
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)		NA
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9	See appended table	P
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		-
	- basic insulation (V)		P
	- supplementary insulation (V)		P
	- reinforced insulation (V)		P


TRF No: IEC60335-2-9 V1.0

page 37 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
	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		NA
	The appliance does not undergo a dangerous malfunction, and no failure of protective electronic circuits, if the appliance is still operable		P
	Appliances tested with an electronic switch in the off position, or in the stand-by mode: - do not become operational, or - if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		NA
	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 - the appliance does not start after the cycle in which the interlock was released		NA
	During the test of 19.102 and 19.103 any flame or smoke from the bread are ignored (IEC 60335-2-9)		P
	Temperature rise of the windings of induction hotplates not exceeding the values specified in 19.7 (IEC 60335-2-9)		NA
	The electric strength test of induction hotplates is carried out immediately after switching off the appliance (IEC 60335-2-9)		NA


TRF No: IEC60335-2-9 V1.0

page 38 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited		NA
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		NA
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited		NA
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		NA
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		NA
19.101	Toasters operated at rated power input and under normal operation, but without bread, for six cycles of operation, test repeated 500 times (IEC 60335-2-9)		P
19.102	Toasters: test with the ejector mechanism locked (IEC 60335-2-9)	The bread caught fire - No remaining hazard after the fire was extinguished	P
19.103	Toasters, loaded with the bread specified for normal operation, are operated at rated power input for 2 cycles with the control at maximum setting. The bread is not replaced. (IEC 60335-2-9)		P
19.104	Induction hotplates are supplied at rated voltage and operated with a steel disk placed on the centre of the cooking zone. The disk has a thickness of 6 mm and the smallest diameter, rounded up to the nearest centimetre, which allows the appliance to operate. (IEC 60335-2-9).		NA


TRF No: IEC60335-2-9 V1.0

page 39 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
19.105	Induction hotplates operated with thermal controls short-circuited or rendered inoperative in turn: The temperature rise of the oil shall not exceed 270 K (IEC 60335-2-9).		NA
19.106	Pop-corn makers: operated under conditions of clause 11 for a period of 5 min but with the popcorn outlet blocked by means of a grid with a mesh size small enough to keep the popcorn from being ejected from the appliance (IEC 60335-2-9)		NA
19.107	Induction hot plates: operated under conditions of Clause 11 but with empty vessels, controls being adjusted to the highest setting (IEC 60335-2-9)		NA
	Induction wok hotplates: operated under conditions of clause 11, with empty wok pan supplied by the manufacturer with the induction wok hotplate at the point of sale, controls being adjusted to the highest setting. (IEC 60335-2-9)		NA
20.	<b>Stability and mechanical hazards</b>		
20.1	Appliances, other than fixed appliances and hand-held appliances, intended to be used on a surface such as the floor or a table shall have adequate stability.	Appliance placed on a plane inclined at an angle of 10° to the horizontal. Test repeated with inclination of 15°. The device did not overturn.	P
20.2	Moving parts of appliances shall, as far as is compatible with the use and working of the appliance, be positioned or enclosed to provide adequate protection against personal injury in normal use.		NA

TRF No: IEC60335-2-9 V1.0

page 40 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
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.		NA
20.2	Protective enclosures, guards and similar parts shall be non-detachable parts and shall have adequate mechanical strength.		NA
20.2	The unexpected closure of self-resetting thermal cut-outs and overcurrent protective devices shall not cause a hazard.		NA
20.101	Oven with horizontal hinged door: successful filling test in conditions as specified, if relevant (weight of 3.5 kg) (IEC 60335-2-9).		NA
21.	<b>Mechanical strength</b>		
21.1.	Appliances shall have adequate mechanical strength and be constructed to withstand such rough handling that may be expected in normal use.	Subjected to the relevant spring hammer test of 0.5J	P
21.2.	Accessible parts of solid insulation shall have sufficient strength to prevent penetration by sharp implements.	Insulation thickness adequate	P
22.	<b>Construction</b>		
22.1.	If the appliance is marked with the first numeral of the IP system, the relevant requirements of IEC 60529 shall be fulfilled.	Not marked with IP	NA

TRF No: IEC60335-2-9 V1.0

page 41 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.2.	For stationary appliances, means shall be provided to ensure all-pole disconnection from the supply mains. Such means shall be one of the following: - a supply cord fitted with a plug; - a switch complying with 24.3; - a statement in the instructions that a disconnection incorporated in the fixed wiring is to be provided; - an appliance inlet.		NA
22.2.	Single-pole switches and single-pole protective devices that disconnect heating elements from the supply mains in single-phase, permanently connected class 01 appliances and class I appliances shall be connected to the phase conductor.		NA
22.3.	Appliances with pins for insertion into socket-outlets shall not impose undue strain on these socket-outlets. The means for retaining the pins shall withstand the forces to which the pins are likely to be subjected in normal use.		NA
22.4.	Appliances for heating liquids and appliances causing undue vibration shall not be provided with pins for insertion into socket-outlets.		NA
22.5.	Appliances intended to be connected to the supply mains by means of a plug or pins for insertion into socket-outlets shall be constructed so that in normal use, when pins are touched, there is no risk of electric shock from charged capacitors having a rated capacitance equal to or greater than 0,1 µF.		P
22.6.	Appliances shall be constructed so that their electrical insulation cannot be affected by water that could condense on cold surfaces or by liquid that could leak from containers, hoses, couplings and similar parts of the appliance.		NA

TRF No: IEC60335-2-9 V1.0 page 42 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.6.	The electrical insulation of class II appliances and class III constructions shall not be affected if a hose ruptures or a seal leaks.		NA
22.7.	Appliances containing liquid or gases in normal use or having steam-producing devices shall incorporate adequate safeguards against the risk of excessive pressure.		NA
22.8.	For appliances having compartments to which access can be gained without the aid of a tool and that are likely to be cleaned in normal use, the electrical connections shall be arranged so that they are not subject to pulling during cleaning.		P
22.9.	Appliances shall be constructed so that parts such as insulation, internal wiring, windings, commutators and slip rings are not exposed to oil, grease or similar substances.		P
22.9.	If parts such as insulation, internal wiring, windings, commutators and slip rings are exposed to oil, grease or similar substances, the substance must have adequate insulating properties so that compliance with the standard is not impaired.		NA
22.10.	It shall not be possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance.		NA
22.10.	Non-self-resetting thermal motor protectors shall have a trip-free action unless they are voltage maintained.		NA
22.10.	Reset buttons of non-self-resetting controls shall be located or protected so that their accidental resetting is unlikely to occur if this could result in a hazard.		NA


TRF No: IEC60335-2-9 V1.0 page 43 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.11.	Non-detachable parts that protect against access to live parts, moisture or contact with moving parts shall be fixed in a reliable manner and withstand the mechanical stress occurring during normal use.	The appliance has been successfully subjected to the relevant mechanical tests.	P
22.11.	Snap-in devices used for fixing such parts shall have an obvious locked position.		NA
22.11.	The fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing shall be reliable.		NA
22.11.	Other parts that are intended to be detached during use, maintenance or cleaning (examples are batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers		NA
22.12.	Handles, knobs, grips, levers and similar parts shall be fixed in a reliable manner so that they will not work loose in normal use if loosening could result in a hazard. If these parts are used to indicate the position of switches or similar components, it shall not be possible to fix them incorrectly if this could result in a hazard.		P
22.13.	Appliances shall be constructed so that when handles are gripped in normal use, contact is unlikely between the operator's hand and parts having a temperature rise exceeding the value specified in table 3 for handles which are held for short periods only in normal use.		P
22.14.	Appliances shall have no ragged or sharp edges, other than those necessary for the functioning of the appliance, that could create a hazard for the user in normal use or during user maintenance.	The device has no ragged or sharp edges.	P

TRF No: IEC60335-2-9 V1.0 page 44 of 90


Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.14.	Pointed ends of self-tapping screws or other fasteners shall be located so that they are unlikely to be touched by the user in normal use or during user maintenance.		P
22.15.	Storage hooks and similar devices for flexible cords shall be smooth and wellrounded.		P
22.16.	Automatic cord reels shall be constructed so that they do not cause undue abrasion or damage to the sheath of the flexible cord.		NA
22.16.	Automatic cord reels shall be constructed so that they do not cause breakage of conductor strands.		NA
22.16.	Automatic cord reels shall be constructed so that they do not cause undue wear of contacts.		NA
22.17.	Spacers intended to prevent the appliance from overheating walls shall be fixed so that it is not possible to remove them from the outside of the appliance by hand or by means of a screwdriver or a spanner. This is not applicable to built-in appliances.		NA
22.18.	Current-carrying parts and other metal parts, the corrosion of which could result in a hazard, shall be resistant to corrosion under normal conditions of use.		P
22.19.	Driving belts shall not be relied upon to provide the required level of insulation unless they are constructed to prevent inappropriate replacement.		NA
22.20.	Direct contact between live parts and thermal insulation shall be effectively prevented unless such material is non-corrosive, non-hygroscopic and non-combustible.		NA

TRF No: IEC60335-2-9 V1.0 page 45 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
22.21.	Wood, cotton, silk, ordinary paper and similar fibrous or hygroscopic material shall not be used as insulation, unless impregnated. This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements.	Not used as insulation	P
22.22.	Appliances shall not contain asbestos.		P
22.23.	Oils containing polychlorinated biphenyl (PCB) shall not be used in appliances.		P
22.24.	Bare heating elements shall be supported so that the heating conductor is unlikely to come into contact with accessible metal parts if they rupture.		P
22.24	Heating elements shall be constructed or supported so they are unlikely to become displaced in normal use (IEC 60335-2-9)		P
22.25.	Appliances, other than those of class III, shall be constructed so that sagging heating conductors cannot come into contact with accessible metal parts.		P
22.26.	Appliances having parts of class III construction shall be constructed so that the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double insulation or reinforced insulation.	No Class III construction	NA
22.27.	Parts connected by protective impedance shall be separated by double insulation or reinforced insulation.		NA
22.28.	For class II appliances connected in normal use to the gas mains or to the water mains, metal parts conductively connected to the gas pipes or in contact with the water shall be separated from live parts by double insulation or reinforced insulation.		NA


TRF No: IEC60335-2-9 V1.0

page 46 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
22.29.	Class II appliances intended to be permanently connected to fixed wiring shall be constructed so that the required degree of access to live parts is maintained after installation.		NA
22.30.	Parts of class II construction which serve as supplementary insulation or reinforced insulation, and which could be omitted during reassembly after servicing, shall be fixed so that they cannot be removed without being seriously damaged.		NA
22.30.	Parts of class II construction which serve as supplementary insulation or reinforced insulation, and which could be omitted during reassembly after servicing, shall be constructed so that they cannot be replaced in an incorrect position, and if they are omitted, the appliance is rendered inoperable or manifestly incomplete.		NA
22.31.	Clearances and creepage distances over supplementary insulation and reinforced insulation shall not be reduced below the values specified in clause 29 as a result of wear.	The device satisfies this requirement.	P
22.31.	If a part, such as a wire, screw, nut or spring, becomes loose or falls out of position, clearances and creepage distances between live parts and accessible parts shall not be reduced below the values specified for supplementary insulation.		P
22.32.	Supplementary insulation and reinforced insulation shall be constructed or protected so that the deposition of pollution resulting from wear of parts within the appliance does not reduce clearances or creepage distances below the values specified in clause 29.		P


TRF No: IEC60335-2-9 V1.0

page 47 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
22.32.	Parts of natural or synthetic rubber used as supplementary insulation shall be resistant to ageing or be located and dimensioned so that creepage distances are not reduced below the values specified in 29.2, even if cracks occur.		NA
22.32.	Ceramic material which is not tightly sintered, similar materials or beads alone shall not be used as supplementary insulation or reinforced insulation.		NA
22.32	Insulating material in which heating conductors are embedded is considered to be basic insulation and not reinforced insulation. This requirement is not applicable to heating conductors in PTC heating elements.		NA
22.33.	Conductive liquids that are or may become accessible in normal use shall not be in direct contact with live parts or unearthed metal parts that are separated from live parts by basic insulation only. Electrodes shall not be used for heating liquids.		NA
22.33.	Electrodes shall not be used for heating liquids.		NA
22.33.	For class II construction, conductive liquids that are or may become accessible in normal use shall not be in direct contact with basic insulation or reinforced insulation unless the reinforced insulation consists of at least 3 layers.		NA
22.33.	For class II construction, conductive liquids which are in contact with live parts shall not be in direct contact with reinforced insulation unless the reinforced insulation consists of at least 3 layers.		NA
22.33.	An air layer shall not be used as basic insulation or supplementary insulation in a double insulation system if it is likely to be bridged by leaking liquid.		NA

TRF No: IEC60335-2-9 V1.0

page 48 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
22.34.	Shafts of operating knobs, handles, levers and similar parts shall not be live unless the shaft is inaccessible when the part is removed.		P
22.35.	For constructions other than those of class III, handles, levers and knobs that are held or actuated in normal use shall not become live in the event of a failure of basic insulation.		P
22.35.	If these handles, levers and knobs are of metal and if their shafts or fixings are likely to become live in the event of a failure of basic insulation, they shall be adequately covered by insulating material or their accessible parts shall be separated from their shafts or fixings by supplementary insulation.		NA
22.35	For stationary appliances and cordless appliances, this requirement does not apply to handles, levers and knobs, other than those of electrical components, provided that they are reliably connected to an earthing terminal or earthing contact or separated from live parts by earthed metal.		NA
22.36.	For appliances other than those of class III, handles which are continuously held in the hand in normal use shall be constructed so that when gripped in normal use, the operator's hand is not likely to touch metal parts unless they are separated from live parts by double insulation or reinforced insulation.		NA
22.37.	For class II appliances, capacitors shall not be connected to accessible metal parts and their casings, if of metal, shall be separated from accessible metal parts by supplementary insulation.		NA
22.38.	Capacitors shall not be connected between the contacts of a thermal cut-out.		NA
22.39.	Lampholders shall be used only for the connection of lamps.		NA

TRF No: IEC60335-2-9 V1.0

page 49 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.40.	Motor-operated appliances and combined appliances which are intended to be moved while in operation, or which have accessible moving parts, shall be fitted with a switch to control the motor. The actuating member of this switch shall be easily visible and accessible.		NA
22.40.	Unless the appliance can operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation shall be fitted with a switch for stopping the operation of the appliance. The actuating member of this switch shall be easily visible and accessible.		NA
22.41.	Appliances shall not incorporate components, other than lamps, containing mercury.	Device does not contain mercury.	P
22.42.	Protective impedance shall consist of at least two separate components whose impedance is unlikely to change significantly during the lifetime of the appliance. If any one of the components is short-circuited or open-circuited the values specified in 8.1.4 shall not be exceeded.		NA
22.43.	Appliances which can be adjusted for different voltages shall be constructed so that accidental changing of the setting is unlikely to occur.		NA
22.44.	Appliances shall not have an enclosure that is shaped or decorated like a toy.		P
22.45.	When air is used as reinforced insulation, the appliance shall be constructed so that clearances cannot be reduced below the values specified in 20.1.3 due to deformation as a result of an external force applied to the enclosure.		P
22.46.	Software used in protective electronic circuits shall be software class B or software class C.		NA

TRF No: IEC60335-2-9 V1.0 page 50 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.47.	Appliances intended to be connected to the water mains shall withstand the water pressure expected in normal use.		NA
22.48.	Appliances intended to be connected to the water mains shall be constructed to prevent backsiphonage of non-potable water into the water mains.		NA
22.49.	For remote operation, the duration of operation shall be set before the appliance can be started unless the appliance switches off automatically at the end of a cycle or it can operate continuously without giving rise to a hazard.		NA
22.50.	Controls incorporated in the appliance, if any, shall take priority over controls actuated by remote operation.		NA
22.51.	A control on the appliance shall be manually adjusted to the setting for remote operation before the appliance can be operated in this mode.		NA
22.51.	There shall be a visual indication on the appliance showing that the appliance is adjusted for remote operation.		NA
22.51.	The manual setting and the visual indication of the remote mode are not necessary on appliances that can operate continuously, or - operate automatically, or - be operated remotely, without giving rise to a hazard		NA
22.52.	Socket-outlets on appliances accessible to the user shall be in accordance with the socket-outlet system used in the country in which the appliance is sold.		NA


TRF No: IEC60335-2-9 V1.0 page 51 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts shall have at least double insulation or reinforced insulation between live parts and the functionally earthed parts.		NA
22.54	Button cells and batteries designated R1 shall not be accessible without the aid of a tool unless the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously.		NA
22.55	Devices that are operated by the user to stop the intended function of the appliance, if any, shall be distinguished from other manual devices by means of shape, or size, or surface texture, or position. This requirement concerning position does not preclude use of a push on push off switch.		P
22.55	An indication when the device has been operated shall be given by: - tactile feedback from the actuator or tactile feedback from the appliance such as stopping of the vibration on the body of the appliance or of a part of it; or - reduction in heat output; or - audible and visible feedback. The sound of the motor or sound of an actuator switching from on to off is considered as an audible feedback. A switch with a stable off-position different from the on-position is considered visual and tactile feedback. The force feedback from the actuator when operating it is considered to be tactile feedback.	Audible and visible feedback	P
22.56	Detachable power supply part shall be provided with the part of class III construction of the appliance.		NA

TRF No: IEC60335-2-9 V1.0 page 52 of 90


Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
22.57	The properties of non-metallic materials shall not degrade from exposure to UV-C radiation generated from UV sources provided for microbiological control within the appliance such that they no longer comply with this standard. This requirement does not apply to glass, ceramics or similar materials.		NA
22.101	Radiant grills: no timer that is intended to delay the operation of a heating element, unless they have a thermostat and are incorporated in an oven or other compartment. Hotplates shall not incorporate a timer that is intended to delay the operation of the heating element. (IEC 60335-2-9)		NA
22.102	Barbecue shall not be provided with bare heating elements. Oven: heating elements with bare conductors at the top only (IEC 60335-2-9)		NA
22.103	Oven vents constructed so that moisture or grease cannot reduce the clearances and creepage distances. (IEC 60335-2-9)		NA
22.104	Ovens constructed so that shelves can easily slide in the supports and do not fall out of position when the sides are displaced as much as possible. (IEC 60335-2-9)		NA
22.105	Appliances have not openings on the underside that would allow small items to penetrate and touch live parts. (IEC 60335-2-9)	Distance measured between supporting surface and live parts through openings > 15mm	P
22.106	Grills and barbecues constructed so that their heating elements are fixed in position or prevented from operating when they are not in their normal position of use. (IEC 60335-2-9)		NA

TRF No: IEC60335-2-9 V1.0 page 53 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
22.107	Hotplate constructed so that heating elements are prevented from rotating about a vertical axis and are adequately supported in all positions of adjustment of their supports. (IEC 60335-2-9)		NA
22.108	Hotplate constructed so that inadvertent operation of touch controls is unlikely if this could give rise to a hazardous situation due to spillage of liquids or damp cloth placed on the control panel, and complies with test as specified ... (IEC 60335-2-9)		NA
22.109	Hotplate incorporating touch controls constructed so that at least two manual operations are requested to switch on a heating element but only one to switch it off. (IEC 60335-2-9)		NA
22.110	Induction hotplates constructed so that they can only be operated with a suitable vessel placed on the cooking zone. (IEC 60335-2-9)		NA
	Temperature rise of iron not exceeding 35K (IEC 60335-2-9)		NA
22.111	Heating element in breadmakers located so they are not exposed to dough that they may rise over the edge of the dough container during normal use of the appliance. (IEC 60335-2-9)		NA
22.112	Reconnection of the power supply to a breadmaker after an interruption shall not result in a fire due to an extended heating period. (IEC 60335-2-9)		NA
22.113	Toasters having an ejector mechanism shall be constructed so that they switch off automatically after the normal toasting time even if the ejector mechanism is blocked by the bread. (IEC 60335-2-9)	Toaster does not switch off when ejector mechanism is blocked.	F


TRF No: IEC60335-2-9 V1.0

page 54 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
22.114	Heating elements in candy floss appliances shall be located so that they are not exposed to sugar during normal use of the appliance. (IEC 60335-2-9)		NA
22.115	For appliances incorporating a hotplate with at least one heating unit controlled by an electronic circuit, safety shall not be impaired in the event of a fault in the electronic circuit. ... (IEC 60335-2-9)		NA
23.	<b>Internal wiring</b>		
23.1.	Wireways shall be smooth and free from sharp edges.	Wireways are smooth and free from sharp edges.	P
23.1.	Wires shall be protected so that they do not come into contact with burrs, cooling fins or similar edges which may cause damage to their insulation.		P
23.1.	Holes in metal through which insulated wires pass shall have smooth well-rounded surfaces or be provided with bushings.		NA
23.1.	Wiring shall be effectively prevented from coming into contact with moving parts.		P
23.2.	Beads and similar ceramic insulators on live wires shall be fixed or located so that they cannot change their position.		NA
23.2.	Beads and similar ceramic insulators on live wires shall be fixed or located so that they cannot rest on sharp edges.		NA
23.2.	If beads are inside flexible metal conduits, they shall be contained within an insulating sleeve, unless the conduit cannot move in normal use.		NA


TRF No: IEC60335-2-9 V1.0

page 55 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
23.3.	Different parts of an appliance that can move relative to each other in normal use or during user maintenance shall not cause undue stress to electrical connections and internal conductors, including those providing earthing continuity.		NA
23.3.	Flexible metallic tubes shall not cause damage to the insulation of the conductors contained within them.		NA
23.3.	Open-coil springs shall not be used to protect the wiring.		NA
23.3.	If a coiled spring, the turns of which touch one another, is used for this purpose, there shall be an adequate insulating lining in addition to the insulation of the conductors.		NA
23.4.	Bare internal wiring shall be rigid and fixed so that, in normal use, clearances or creepage distances cannot be reduced below the values specified in clause 20.		P
23.5.	The insulation of internal wiring shall withstand the electrical stress likely to occur in normal use.	Successfully subjected to the relevant electric strength test of 2000V applied for 15 min	P
23.6.	When sleeving is used as supplementary insulation on internal wiring, it shall be retained in position by positive means.		NA
23.7.	Conductors identified by the colour combination green/yellow shall only be used for earthing conductors.		P
23.8.	Aluminium wires shall not be used for internal wiring.		P

TRF No: IEC60335-2-9 V1.0

page 56 of 90

 <span style="float: right;">IEC 60335-2-9 Report No.: 0685.011.3.01</span>			
Clause	Requirement - Test	Result - Remark	Verdict
23.9.	Stranded conductors shall not be consolidated by lead-tin soldering where they are subjected to contact pressure, unless the clamping means is constructed so that there is no risk of bad contact due to cold flow of the solder.		P
23.10.	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, shall be at least equivalent to that of light polyvinyl chloride sheathed flexible cord (code designation 60227 IEC 52).		NA
24.	<b>Components</b>		
24.1.	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply	For components with which no sufficient data are provided (markings, etc.), they are tested as part of the appliance according to this standard.	P
24.2.	Appliances shall not be fitted with switches, automatic controls, power supplies and the like in flexible cords.		P
24.2.	Appliances shall not be fitted with devices that cause the protective device in the fixed wiring to operate in the event of a fault in the appliance.		P
24.2.	Appliances shall not be fitted with thermal cut-outs that can be reset by a soldering operation unless the solder has a melting point of at least 230 °C.		NA
24.3.	Switches intended to ensure all-pole disconnection of stationary appliances, as required in 22.2, shall be directly connected to the supply terminals and shall have a contact separation in all poles, providing full disconnection under over-voltage category III conditions.		NA

TRF No: IEC60335-2-9 V1.0

page 57 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
24.4.	Plugs and socket-outlets for extra-low voltage circuits, and those used as terminal devices for heating elements, shall not be interchangeable with plugs and socket-outlets listed in IEC 60083 or IEC 60908-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1.		NA
24.5.	Capacitors in auxiliary windings of motors shall be marked with their rated voltage and their rated capacitance and shall be used in accordance with these markings.		NA
24.6.	The working voltage of motors directly connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, shall not exceed 42 V. In addition, they shall comply with the requirements of annex I.		NA
24.7.	Detachable hose-sets for the connection of appliances to the water mains shall comply with IEC 61770. They shall be supplied with the appliance. Appliances intended to be permanently connected to the water mains shall not be connected by a detachable hose-set.		NA
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 shall not cause a hazard in the event of a capacitor failure.		NA
24.101	Thermostats and energy regulators incorporating an off position: off position maintained under test conditions (IEC 60335-2-9)		NA
	Thermostats and energy regulators incorporating an off position: no breakdown after application of 500V across the contacts not switch on as a result of variations in ambient temperature (IEC 60335-2-9)		NA

TRF No: IEC60335-2-9 V1.0

page 58 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
24.102	Thermal cut-outs incorporated in food dehydrators in order to comply with 19.4 are non-self-resetting (IEC 60335-2-9)		NA
25.	Supply connection and external flexible cords		
25.1.	Appliances, other than those intended to be permanently connected to fixed wiring, shall be provided with one of the following means for connection to the supply mains: - 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; - an appliance inlet having at least the same degree of protection against moisture as required for the appliance; - pins for insertion into socket-outlets.	Supply cord fitted with a plug	P
	Appliances incorporating an appliance inlet that does not comply with the standard sheets of IEC 60320-3 shall be supplied with a cord set		NA
25.2.	Appliances, other than stationary appliances for multiple supply, shall not be provided with more than one means of connection to the supply mains.	One means of connection to the supply mains	P
25.2.	Stationary appliances for multiple supply may be provided with more than one means of connection provided that the relevant circuits are adequately insulated from each other.		NA

TRF No: IEC60335-2-9 V1.0

page 59 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
25.3.	Appliances intended to be permanently connected to fixed wiring shall be provided with one of the following means for connection to the supply mains: - a set of terminals allowing the connection of cables of fixed wiring having the nominal cross-sectional areas specified in 26.6; - a fitted supply cord; - a set of terminals allowing the connection of a flexible cord; - a set of supply leads accommodated in a suitable compartment; - a set of terminals and cable entries, conduit entries, knock-outs or glands, which allow the connection of the appropriate types of cable or conduit.		NA
25.3.	Appliances intended to be permanently connected to fixed wiring that are provided with - a set of terminals allowing the connection of cables of fixed wiring having the nominal cross-sectional areas specified in 26.6, or - a set of terminals and cable entries, conduit entries, knock-outs or glands, which allow the connection of the appropriate types of cable or conduit, shall allow the connection of the supply conductors after the appliance has been fixed to its support.		NA
25.3.	If a fixed appliance is constructed so that parts can be removed to facilitate easy installation, this requirement is considered to be met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support. In this case, removable parts are to be constructed for ease of reassembly without risk of incorrect assembly or damage to the wiring or terminals.		NA

TRF No: IEC60335-2-9 V1.0

page 60 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
25.4.	For appliances intended to be permanently connected to the fixed wiring and having a rated current not exceeding 16 A, cable and conduit entries shall be suitable for cables or conduits having a maximum overall dimension shown in table 10.		NA
25.4.	Conduit entries, cable entries and knock-outs shall be constructed or located so that the introduction of the conduit or cable does not reduce clearances or creepage distances below the values specified in clause 29.		NA
25.5.	Supply cords shall be assembled to the appliance by one of the following methods: - type X attachment; - type Y attachment; - type Z attachment, if allowed in the relevant part 2.	Type Y attachment	P
25.5.	Type X attachments, other than those having a specially prepared cord, shall not be used for flat twin tinsel cords.		NA
25.5.	For multi-phase appliances that are supplied with a supply cord and that are intended to be permanently connected to the fixed wiring, the supply cord shall be assembled to the appliance by a type Y attachment.		NA
25.6	Plugs shall not be fitted with more than one flexible cord.		P

TRF No: IEC60335-2-9 V1.0

page 61 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
25.7.	<p>Supply cords for appliances other than class III shall be one of the following types:</p> <ul style="list-style-type: none"> <li>- Rubber sheathed.</li> </ul> <p>Their properties shall be at least those of ordinary tough rubber sheathed cords (code designation 60245 IEC 53). These cords are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amounts of ultraviolet radiation.</p> <ul style="list-style-type: none"> <li>- Polychloroprene sheathed.</li> </ul> <p>Their properties shall be at least those of ordinary polychloroprene sheathed cords (code designation 60245 IEC 57).</p> <ul style="list-style-type: none"> <li>- Polyvinyl chloride sheathed.</li> </ul> <p>These cords shall not be used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of Clause 15. Their properties shall be at least those of</p> <ul style="list-style-type: none"> <li>• light polyvinyl chloride sheathed cord (code designation 60227 IEC 53), for appliances having a mass not exceeding 3 kg;</li> <li>• ordinary polyvinyl chloride sheathed cord (code designation 60227 IEC 53), for other appliances;</li> <li>- Heat resistant polyvinyl chloride sheathed.</li> </ul> <p>These cords shall not be used for type X attachment other than specially prepared cords.</p> <p>Their properties shall be at least those of</p> <ul style="list-style-type: none"> <li>• heat-resistant light polyvinyl chloride sheathed cord (code designation 60227 IEC 56), for appliances having a mass not exceeding 3 kg;</li> <li>• heat-resistant polyvinyl chloride sheathed cord (code designation 60227 IEC 57), for other appliances;</li> <li>- halogen-free, low smoke, thermoplastic insulated and sheathed</li> </ul> <p>Their properties should at least be those of</p> <ul style="list-style-type: none"> <li>• light duty halogen-free low smoke flexible cable (code designation 62821 IEC 101 for circular cable and code designation 62821 IEC 101F for flat cable);</li> <li>• Ordinary duty halogen-free, low smoke flexible cable (code designation 62821 IEC 102 for circular cable and code designation 62821 IEC 102F for flat cable);</li> </ul>	H05VV-F		P	
25.7.	Supply cords for class III appliances shall be adequately insulated.			NA	
	The supply cord of appliances intended for outdoor use shall be polychloroprene sheathed and shall not be lighter than ordinary polychloroprene sheathed cord (code designation 60245 IEC 57).			NA	

TRF No: IEC60335-2-9 V1.0

page 62 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
25.8.	Conductors of supply cords shall have a nominal cross-sectional area not less than that shown in table 11.	3X0.75mm <sup>2</sup>		P	
25.9.	Supply cords shall not be in contact with sharp points or edges of the appliance.	The device does not contain any sharp point or edges.		P	
25.10.	The supply cord of class I appliances shall have a green/yellow core that is connected to the earthing terminal of the appliance and to the earthing contact of the plug.			P	
25.10	In multi-phase appliances, the colour of the neutral conductor of the supply cord, if any, shall be blue.			NA	
25.10	Where additional neutral conductors are provided in the supply cord			NA	
	- other colours may be used for these additional neutral conductors;				
	- all of the neutral conductors and line conductors shall be identified by marking using the alpha numeric notation specified in IEC 60445;				
	- the supply cord shall be fitted to the appliance.				
25.11.	Conductors of supply cords shall not be consolidated by lead-tin soldering where they are subjected to contact pressure, unless the clamping means is constructed so that there is no risk of a bad contact due to cold flow of the solder.			NA	
25.12.	The insulation of the supply cords shall not be damaged when moulding the cord to part of the enclosure.			NA	
25.13.	Inlet openings for supply cords shall be constructed so that the sheath of the supply cord can be introduced without risk of damage.			P	

TRF No: IEC60335-2-9 V1.0

page 63 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
25.13.	If it is not evident from the construction of the appliance that the supply cord can be introduced without risk of damage, a non-detachable lining or non-detachable bushing shall be provided that complies with 29.3 for supplementary insulation.			NA	
25.14.	Appliances provided with a supply cord that are moved while in operation shall be constructed so that the supply cord is adequately protected against excessive flexing where it enters the appliance.			NA	
25.15.	Appliances provided with a supply cord, and appliances intended to be permanently connected to fixed wiring by a flexible cord, shall have a cord anchorage. The cord anchorage shall relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.	Tested with pull force 30N and torque 0.1Nm Displacement <2mm		P	
25.15.	It shall not be possible to push the cord into the appliance to such an extent that the cord or internal parts of the appliance could be damaged.			P	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that replacement of the cord is easily possible.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that it is clear how the relief from strain and the prevention of twisting are obtained.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that they are suitable for the different types of supply cord that may be connected, unless the cord is specially prepared.			NA	

TRF No: IEC60335-2-9 V1.0

page 64 of 90

Labor s.a.		IEC 60335-2-9		Report No.: 0685.011.3.01	
Clause	Requirement - Test	Result - Remark	Verdict		
25.16.	Cord anchorages for type X attachments shall be constructed and located so that the cord cannot touch the clamping screws of the cord anchorage if these screws are accessible, unless they are separated from accessible metal parts by supplementary insulation.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that the cord is not clamped by a metal screw which bears directly on the cord.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that at least one part of the cord anchorage is securely fixed to the appliance, unless it is part of a specially prepared cord.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that screws which have to be operated when replacing the cord do not fit any other component.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that if labyrinths can be bypassed, the test of 25.15 is nevertheless withstood.			NA	
25.16.	Cord anchorages for type X attachments shall be constructed and located so that for class 0 appliances, class 0I appliances and class I appliances, they are of insulating material or are provided with an insulating lining, unless failure of the insulation of the cord does not make accessible metal parts live.			NA	

TRF No: IEC60335-2-9 V1.0

page 65 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
25.16.	Cord anchorages for type X attachments shall be constructed and located so that for class II appliances, they are of insulating material or, if of metal, they are insulated from accessible metal parts by supplementary insulation.		NA
25.17.	For type Y attachment and type Z attachment, cord anchorages shall be adequate.		P
25.18.	Cord anchorages shall be arranged so that they are only accessible with the aid of a tool or shall be constructed so that the cord can only be fitted with the aid of a tool.		P
25.19.	For type X attachment, glands shall not be used as cord anchorages in portable appliances. Tying the cord into a knot or tying the cord with string is not allowed.		NA
25.20.	The conductors of the supply cord for type Y attachment and type Z attachment shall be insulated from accessible metal parts by basic insulation for class 0 appliances, class 0I appliances and class I appliances, and by supplementary insulation for class II appliances. This insulation may be provided by the sheath of the supply cord or by other means.		P
25.21.	The space for the connection of supply cords having type X attachment, or for the connection of fixed wiring, shall be constructed so that it is possible to check that the supply conductors are correctly positioned and connected before fitting any cover.		NA
25.21.	The space for the connection of supply cords having type X attachment, or for the connection of fixed wiring, shall be constructed so that any cover can be fitted without risk of damage to the conductors or their insulation.		NA

TRF No: IEC60335-2-9 V1.0

page 66 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
25.21.	The space for the connection of supply cords having type X attachment, or for the connection of fixed wiring, shall be constructed for portable appliances, so that the uninsulated end of a conductor, should it become free from the terminal, cannot come into contact with accessible metal parts.		NA
25.22.	Appliance inlets shall be located or enclosed so that live parts are not accessible during insertion or removal of the connector. This requirement is not applicable to appliance inlets complying with IEC 60320-1		NA
25.22.	Appliance inlets shall be located so that the connector can be inserted without difficulty.		NA
25.22.	Appliance inlets shall be located so that, after insertion of the connector, the appliance is not supported by the connector when it is placed in any position of normal use on a flat surface.		NA
25.22.	Appliance inlets shall not be an appliance inlet for cold conditions if the temperature rise of external metal parts of the appliance exceeds 75 K during the test of clause 11, unless the supply cord is unlikely to touch such metal parts in normal use.		NA
25.23.	Interconnection cords shall comply with the requirements for the supply cord, except that the cross-sectional area of the conductors of the interconnection cord is determined on the basis of the maximum current carried by the conductor during the test of Clause 11 and not by the rated current of the appliance.		NA

TRF No: IEC60335-2-9 V1.0

page 67 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
25.23.	Interconnection cords shall comply with the requirements for the supply cord, except that the thickness of the insulation of the conductor may be reduced if the voltage of the conductor is less than the rated voltage.		NA
25.23	Interconnection cords shall comply with the requirements for the supply cord, except that, for class III construction, interconnection cords of a class I appliance or class II appliance, the cross-sectional areas of the conductors need not comply with 25.9 if the temperature of the cord insulation specified in Table 3 and Table 9 are not exceeded during the tests of Clause 11 and Clause 19, respectively.		NA
25.24.	Interconnection cords shall not be detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected.		NA
25.25.	The dimensions of pins of appliances that are inserted into socket-outlets shall be compatible with the dimensions of the relevant socket-outlet. Dimensions of the pins and engagement face are to be in accordance with the dimensions of the relevant plug listed in IEC 60063.		NA
25.25	Dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are to be in accordance with the dimensions of the relevant plug standard.		NA
26.	<b>Terminals for external conductors</b>		NA


TRF No: IEC60335-2-9 V1.0

page 68 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
26.1.	Appliances shall be provided with terminals or equally effective devices for the connection of external conductors. The terminals shall only be accessible after the removal of a non-detachable cover. The terminals, other than terminals in class III appliances that do not contain live parts, shall only be accessible after the removal of a non-detachable cover. However, 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.		NA
26.2.	Appliances having type X attachment, except those having a specially prepared cord, and appliances for connection to fixed wiring shall be provided with terminals in which the connections are made by means of screws, nuts or similar devices, unless the connections are soldered.		NA
26.2.	The screws and nuts shall not be used to fix any other component except that they may also clamp internal conductors if these are arranged so that they are unlikely to be displaced when fitting the supply conductors.		NA
26.2.	If soldered connections are used, the conductor shall be positioned or fixed so that reliance is not placed upon the soldering alone to maintain it in position. However, soldering alone may be used if barriers are provided so that clearances and creepage distances between live parts and other metal parts cannot be reduced below the values specified for supplementary insulation if the conductor becomes free at the soldered joint.		NA


TRF No: IEC60335-2-9 V1.0

page 69 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
26.3.	Terminals for type X attachment and those for connection to fixed wiring shall be constructed so that they clamp the conductor between metal surfaces with sufficient contact pressure but without causing damage to the conductor.		NA
26.3.	Terminals for type X attachment and those for connection to fixed wiring shall be fixed so that when the clamping means is tightened or loosened the terminal does not become loose.		NA
26.3.	Terminals for type X attachment and those for connection to fixed wiring shall be fixed so that when the clamping means is tightened or loosened internal wiring is not subjected to stress.		NA
26.3.	Terminals for type X attachment and those for connection to fixed wiring shall be fixed so that when the clamping means is tightened or loosened clearances and creepage distances are not reduced below the values specified in clause 29.		NA
26.4.	Terminals for type X attachment, except type X attachments having a specially prepared cord, and terminals for connection to fixed wiring, shall not require special preparation of the conductor. They shall be constructed or placed so that the conductor cannot slip out when clamping screws or nuts are tightened.		NA
26.5.	Terminals for type X attachment shall be located or shielded so that if a wire of a stranded conductor escapes when the conductors are fitted, there is no risk of accidental connection to other parts that could result in a hazard.		NA


TRF No: IEC60335-2-9 V1.0

page 70 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
26.6.	Terminals for type X attachment and for connection to fixed wiring shall allow the connection of conductors having the nominal cross-sectional areas shown in table 13. However, if a specially prepared cord is used, the terminals need only be suitable for the connection of that cord.		NA
26.7.	Terminals for type X attachment shall be accessible after removal of a cover or part of the enclosure.		NA
26.8.	Terminals for the connection of fixed wiring, including the earthing terminal, shall be located close to each other.		NA
26.9.	Terminals of the pillar type shall be constructed and located so that the end of a conductor introduced into the hole is visible, or can pass beyond the threaded hole for a distance equal to half the nominal diameter of the screw but at least 2,5 mm.		NA
26.10.	Terminals with screw clamping and screwless terminals shall not be used for the connection of the conductors of flat twin tinsel cords unless the ends of the conductors are fitted with means suitable for use with screw terminals.		NA


TRF No: IEC60335-2-9 V1.0

page 71 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
26.11.	For appliances having type Y attachment or type Z attachment, soldered, welded, crimped or similar connections may be used for the connection of external conductors. For class II appliances, the conductor shall be positioned or fixed so that reliance is not placed upon the soldering, crimping or welding alone to maintain the conductor in position. Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder. However, these methods may be used alone if barriers are provided so that clearances and creepage distances between live parts and other metal parts cannot be reduced below the values specified for supplementary insulation, if the conductor becomes free at the soldered or welded joint or slips out of the crimped connection.		P
27.	<b>Provision for earthing</b>		
27.1.	Accessible metal parts of class II appliances and class I appliances that may become live in the event of a failure of basic insulation, shall be permanently and reliably connected to an earthing terminal within the appliance or to the earthing contact of the appliance inlet.		P
27.1.	Earthing terminals and earthing contacts shall not be connected to the neutral terminal.		P
27.1.	Class 0 appliances, class II appliances and class III appliances shall have no provision for protective earthing. Class II appliances and class III appliances may incorporate an earth for functional purposes.		NA
27.1.	Safety extra-low voltage circuits shall not be earthed unless they are protective extra-low voltage circuits.		NA

TRF No: IEC60335-2-9 V1.0

page 72 of 90

 <span style="float: right;">IEC 60335-2-9 <i>Report No.: 0685.011.3.01</i></span>			
Clause	Requirement - Test	Result - Remark	Verdict
	No earthing via flexible metal tubes, coiled springs and cord anchorage (IEC 60335-2-9)		P
27.2.	The clamping means of earthing terminals shall be adequately secured against accidental loosening.		P
27.2.	Terminals for the connection of external equipotential bonding conductors shall allow the connection of conductors having nominal cross-sectional areas of 2,5 mm <sup>2</sup> to 6 mm <sup>2</sup> and shall not be used to provide earthing continuity between different parts of the appliance. It shall not be possible to loosen the conductors without the aid of a tool.		NA
27.2.	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		NA
27.3.	If a detachable part having an earth connection is plugged into another part of the appliance, the earth connection shall be made before the current-carrying connections are established. The current-carrying connections shall be separated before the earth connection when removing the part.		NA
27.3.	For appliances with supply cords, the arrangement of the terminals, or the length of the conductors between the cord anchorage and the terminals, shall be such that the current carrying conductors become taut before the earthing conductor if the cord slips out of the cord anchorage.		P
27.3.	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		NA

TRF No: IEC60335-2-9 V1.0

page 73 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
27.4.	All parts of the earthing terminal intended for the connection of external conductors shall be such that there is no risk of corrosion resulting from contact between these parts and the copper of the earthing conductor or any other metal in contact with these parts.		P
27.4.	Parts providing earthing continuity, other than parts of a metal frame or enclosure, shall be of metal having adequate resistance to corrosion unless they are parts of copper or copper alloys containing at least 58 % copper for parts that are worked cold, and at least 50 % copper for other parts, or unless they are parts of stainless steel containing at least 13 % chrome. If these parts are of steel, they shall be provided at the essential areas with an electroplated coating having a thickness of at least 5 µm at essential areas such as those liable to transmit a fault current		P
27.4.	Parts of coated or uncoated steel that are only intended to provide or to transmit contact pressure shall be adequately protected against rusting.		NA
27.4.	If the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloy, precautions shall be taken to avoid the risk of corrosion resulting from contact between copper and aluminium or its alloys.		NA
27.4	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		NA
27.5.	The connection between the earthing terminal or earthing contact and earthed metal parts shall have low resistance.	Resistance not exceeding 0.052 Ω	P

TRF No: IEC60335-2-9 V1.0

page 74 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
27.5	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		NA
27.6.	The printed conductors of printed circuit boards shall not be used to provide earthing continuity in hand-held appliances. They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit.		NA
27.6	This requirement is not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		NA
<b>28. Screws and connections</b>			
28.1.	Fixings, the failure of which may impair compliance with this standard, electrical connections and connections providing earthing continuity shall withstand the mechanical stresses occurring in normal use.		P
28.1.	Screws used for these purposes shall not be of metal which is soft or liable to creep, such as zinc or aluminium.	No such type.	P
28.1.	If they are of insulating material, they shall have a nominal diameter of at least 3 mm and they shall not be used for any electrical connections or connections providing earthing continuity.		NA
28.1.	Screws used for electrical connections or for connections providing earthing continuity shall screw into metal.		NA
28.1.	Screws shall not be of insulating material if their replacement by a metal screw could impair supplementary insulation or reinforced insulation.		NA

TRF No: IEC60335-2-9 V1.0

page 75 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
28.1.	Screws that may be removed when replacing a supply cord having a type X attachment or when undertaking user maintenance shall not be of insulating material if their replacement by a metal screw could impair basic insulation.		NA
28.2.	Electrical connections and connections providing earthing continuity shall be constructed so that contact pressure is not transmitted through insulating material that is liable to shrink or to distort unless there is sufficient resiliency in the metallic parts to compensate for any possible shrinkage or distortion of the insulating material.	The contact pressure is not transmitted through insulating material.	P
28.3.	Space-threaded (sheet metal) screws shall only be used for electrical connections if they clamp the parts together.		NA
28.3.	Thread-cutting (self-tapping) screws and thread rolling screws shall only be used for electrical connections if they generate a full form standard machine screw thread. However, thread-cutting (self-tapping) screws shall not be used if they are likely to be operated by the user or installer.	Not used for electrical connections	NA
28.3.	Thread-cutting, thread rolling and space-threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection - in normal use, - during user maintenance, - when replacing a supply cord having a type X attachment, or - during installation.	Not used for electrical connections	NA

TRF No: IEC60335-2-9 V1.0

page 76 of 90

Labor s.a. IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
28.3.	At least two screws must be used for each connection providing earthing continuity unless the screw forms a thread having a length of at least half the diameter of the screw.		NA
28.4.	Screws and nuts that make a mechanical connection between different parts of the appliance shall be secured against loosening if they also make electrical connections or connections providing earthing continuity. This requirement does not apply to screws in the earthing circuit if at least two screws are used for the connection or if an alternative earthing circuit is provided.		NA
28.4.	Rivets used for electrical connections or for connections providing earthing continuity shall be secured against loosening if these connections are subject to torsion in normal use.		NA
<b>29. Clearances, creepage distances and solid insulation</b>			
29.	Appliances shall be constructed so that the clearances, creepage distances and solid insulation are adequate to withstand the electrical stresses to which the appliance is liable to be subjected.		P
29.1.	Clearances shall not be less than the values specified in Table 16, taking into account the rated impulse voltage for the overvoltage categories of Table 15, unless, for basic insulation and functional insulation, they comply with the impulse voltage test of Clause 14.	The clearances, creepage distances and solid insulation does not exceed the minimum allowable limits.	P
29.1.1.	The clearances of basic insulation shall be sufficient to withstand the overvoltages likely to occur during use, taking into account the rated impulse voltage.	The device satisfies this requirement.	P
29.1.2.	Clearances of supplementary insulation shall be not less than those specified for basic insulation in table 16.	(see appended table)	P

TRF No: IEC60335-2-9 V1.0

page 77 of 90

IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
28.1.3.	Clearances of reinforced insulation shall be not less than those specified for basic insulation in table 16, but using the next higher step for rated impulse voltage as a reference.	(see appended table)	P
28.1.4.	Clearances for functional insulation are the largest values determined from: - table 16 based on the rated impulse voltage - table F.7a in IEC 60694-1, frequency not exceeding 30 kHz - clause 4 of IEC 60694-4, frequency exceeding 30 kHz However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		P
29.1.4.	Clearance between surfaces of PTC heating elements may be reduced to 1 mm		NA
29.1.5.	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from: - table 16 based on the rated impulse voltage - table F.7a in IEC 60694-1, frequency not exceeding 30 kHz - clause 4 of IEC 60694-4, frequency exceeding 30 kHz		NA
29.1.5.	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 shall be not less than those specified in table 16, but using the next lower step for rated impulse voltage as a reference.		NA

TRF No: IEC60335-2-9 V1.0

page 78 of 90

IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
28.2.	Appliances shall be constructed so that creepage distances are not less than those appropriate for the working voltage, taking into account the material group and the pollution degree.	The device satisfies this requirement.	P
29.2.1.	Creepage distances of basic insulation shall not be less than those specified in table 17.	(see appended table).	P
29.2.2.	Creepage distances of supplementary insulation shall be at least those specified for basic insulation in table 17 or Table 2 of IEC 60694-4, as applicable.	(see appended table)	P
29.2.3.	Creepage distances of reinforced insulation shall be at least double those specified for basic insulation in table 17 or Table 2 of IEC 60694-4, as applicable.		P
29.2.4.	Creepage distances of functional insulation shall be not less than those specified in table 18. However, creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited.	The creepage distances of functional insulation are greater than the minimum permitted limits.	p
29.3.	Supplementary insulation and reinforced insulation shall have adequate thickness, or have a sufficient number of layers, to withstand the electrical stresses that can be expected during the use of the appliance.	Body enclosure 2mm	P
29.3.21	Appliance shall be constructed so that if there is a possibility of damaging the insulation during installation, the insulation shall withstand the scratch and penetration test of 21.2		NA
30.	<b>Resistance to heat and fire</b>		

TRF No: IEC60335-2-9 V1.0

page 79 of 90

IEC 60335-2-9 Report No.: 0685.011.3.01			
Clause	Requirement - Test	Result - Remark	Verdict
30.1.	External parts of non-metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplastic material providing supplementary insulation or reinforced insulation, shall be sufficiently resistant to heat if their deterioration could cause the appliance to fail to comply with this standard.	(see appended table)	P
30.2.	Parts of non-metallic material shall be resistant to ignition and spread of fire.	(see appended table)	P
31.	<b>Resistance to rusting</b>		
31.	Ferrous parts, the rusting of which might cause the appliance to fail to comply with this standard, shall be adequately protected against rusting.	No test required for appliances for indoor use according to part 2	NA
32.	<b>Radiation, toxicity and similar hazards</b>		
32.	Appliances shall not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.	No limit or test specified in part 2. Deemed to comply.	P

TRF No: IEC60335-2-9 V1.0

page 80 of 90

IEC 60335-2-9 Report No.: 0685.011.3.01					
Clause	Requirement - Test	Result - Remark	Verdict		
10.1	<b>TABLE: Power input deviation</b>				P
	Input deviation off:	P rated (W)	P measured (W)	dP (W %)	Required dP (W %)
	230V, 50Hz	700	661.8	-5.45	+5%,-10%
					P
10.2	<b>TABLE: current input deviation</b>				NA
	Input deviation off:	rated (A)	measured (A)	Dp (%)	Required dP (%)
					Remark
11.8	<b>TABLE: Heating test, thermocouples</b>				P
	Test voltage (V).....	(power 805W)			—
	Ambient (°C).....	25			—
	Thermocouple locations	ΔT (K)	Max. ΔT (K)		
	Internal wire (resistance)	89.3	Unknown material – Could not determine limit		
	Ambient of timer	27.7	30		
	Internal wire (pvc)	25.6	50		
	Winding	78.2	Unknown material – Could not determine limit		
	Power supply cord (outside enclosure)	6.9	35		
	Ejector handle	5.4	For reference		
	Timer knob	5.6	60		
	PCB	43.8	120		
	Plastic enclosure (inside)	34.8	Measured for Clause 30.1		
	Mounting surface	1.5	65		
11.101	<b>TABLE: Temperature rise for accessible surfaces</b>				P
	Test voltage (V).....	(Rated power 700W)			—
	Ambient (°C).....	22.3			—
	Thermocouple locations	ΔT (K)	Max. ΔT (K)		
	Plastic enclosure >25mm of hot functional surface	24.3	65		

TRF No: IEC60335-2-9 V1.0

page 81 of 90

<b>13.2</b>	<b>TABLE: Leakage current</b>		P
Heating appliances: 1.15 x rated input (W):		805W	-
Motor-operated and combined appliances: 1.06 x rated voltage (V):			-
Leakage current between		I (mA)	Max. allowed I (mA)
Live part and earthed metal enclosure		0.02	0.75
Live part and accessible surface		0.00	0.35 peak
Supplementary information:			

<b>13.3</b>	<b>TABLE: Electric strength</b>		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Live part and earthed metal enclosure		1000	No
Live part and accessible surface		3000	No
Internal wire and accessible surface		1750	No
Supplementary information:			

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

<b>16.2</b>	<b>TABLE: Leakage current</b>		P
Single phase appliances: 1.06 x rated voltage (V):		243.8	
Three phase appliances: 1.06 x rated voltage divided by $\sqrt{3}$ (V):		---	
Leakage current between		I (mA)	Max. allowed I (mA)
Live part and earthed metal enclosure		0.02	0.75
Live part and accessible surface		0.00	0.25

Supplementary information:

<b>16.3</b>	<b>TABLE: Electric strength</b>		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Live part and earthed metal enclosure		1250	No
Live part and accessible surface		3000	No
Internal wire and accessible surface		1750	No
Supplementary information:			

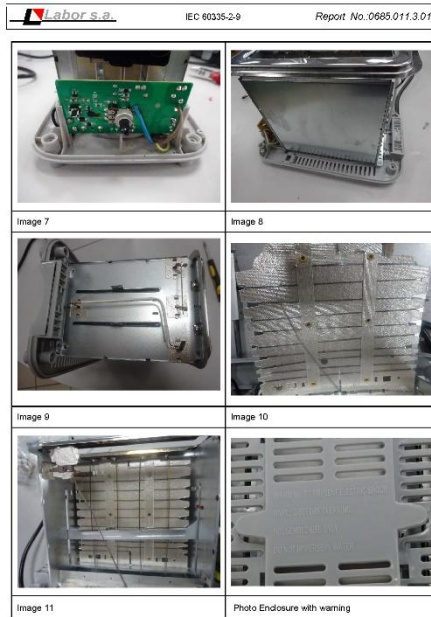
<b>18.13</b>	<b>TABLE: Abnormal operation, temperature rises</b>		P
Thermocouple locations		Max. temperature rise measured, $\Delta T$ (K)	Max. temperature rise limit, $\Delta T$ (K)
Supply cord		8.9	150
Plastic enclosure (inside)		38.4	(For Clause 30.1)
Test floor		3.4	150

<b>24.1</b>	<b>TABLE: Critical Components</b>		-		
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Plug	Kahua	KH-8916	10A, 250V	IRAM 2075	S-MARK
Supply Cord	Kahua	H03V\F 303.75mm <sup>2</sup>	300.75mm <sup>2</sup>	IEC 60227-5	VDE
Enclosure	-	-	-	-	Tested with appliance
Heating element	-	-	-	-	Tested with appliance
Internal wire	-	-	-	-	Tested with appliance
PCB board	-	CT-818	-	-	Tested with appliance
Knob & button	-	-	-	-	Tested with appliance

<b>28.1</b>	<b>TABLE: Clearances</b>		P	
Overvoltage category: II		Type of insulation:		
Rated impulse voltage (V):	Min. ci (mm)	Basic (mm)	Supplementary (mm)	
		Reinforced (mm)	Functional (mm)	
			Verdict / Remark	
330	0.2' / 0.5 / 0.8"	--	--	--
500	0.2' / 0.5 / 0.8"	--	--	--
800	0.2' / 0.5 / 0.8"	--	--	--
1500	0.5 / 0.8" / 1.0"	--	--	--
2500	1.5 / 2.0"	>4	>4	>2 P
4000	3.0 / 3.8"	--	--	>15 P
6000	5.5 / 6.0"	--	--	--
8000	8.0 / 8.5"	--	--	--
10000	11.0 / 11.5"	--	--	--

<b>28.2</b>	<b>TABLE: Creepage distances, basic, supplementary and reinforced insulation</b>							
Working voltage (V)	Creepage distance (mm) Pollution degree						Type of insulation	Verdict
	1	2		3				
	Material group		Material group					
	I	II	IIIa/IIIb	I	II	IIIa/IIIb	B <sup>+</sup> B <sup>-</sup> R <sup>+</sup> R <sup>-</sup>	
<50	0.18	0.6	0.85	1.2	1.5	1.7	1.9	-- NA
<50	0.18	0.6	0.85	1.2	1.5	1.7	1.9	-- NA
<50	0.36	1.2	1.7	2.4	3.0	3.4	3.8	-- NA
125	0.28	0.75	1.05	1.5	1.9	2.1	2.4	-- NA
125	0.28	0.75	1.05	1.5	1.9	2.1	2.4	-- NA
125	0.56	1.5	2.1	3.0	3.8	4.2	4.8	-- NA
250	0.56	1.25	1.8	2.5	3.2	3.6	4.0	>7 -- P
250	0.56	1.25	1.8	2.5	3.2	3.6	4.0	>8.0 -- P
250	1.12	2.5	3.6	5.0	6.4	7.2	8.0	-- >16 P
400	1.0	2.0	2.8	4.0	5.0	5.6	6.3	-- NA
400	1.0	2.0	2.8	4.0	5.0	5.6	6.3	-- NA
400	2.0	4.0	5.6	8.0	10.0	11.2	12.6	-- NA
500	1.3	2.5	3.6	5.0	6.3	7.1	8.0	-- NA
500	1.3	2.5	3.6	5.0	6.3	7.1	8.0	-- NA
500	2.6	5.0	7.2	10.0	12.6	14.2	16.0	-- NA
>830 and <800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	-- NA
>830 and <800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	-- NA
>830 and <800	3.6	6.4	9.0	12.6	16.0	18.0	20.0	-- NA
>800 and <1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	-- NA
>800 and <1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	-- NA
>800 and <1000	4.8	8.0	11.2	16.0	20.0	22.0	25.0	-- NA
>1000 and <1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0	-- NA
>1000 and <1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0	-- NA
>1000 and <1250	6.4	10.0	14.2	20.0	25.0	28.0	32.0	-- NA
>1250 and <1600	4.2	6.3	9.0	12.5	16.0	18.0	20.0	-- NA
>1250 and <1600	4.2	6.3	9.0	12.5	16.0	18.0	20.0	-- NA
>1250 and <1600	8.4	12.6	18.0	25.0	32.0	36.0	40.0	-- NA
>1800 and <2000	5.6	8.0	11.0	16.0	20.0	22.0	25.0	-- NA
>1800 and <2000	5.6	8.0	11.0	16.0	20.0	22.0	25.0	-- NA





# NOVOHOME

## TWO-SLICE TOASTER

### NH-TO025B



220-240V AC ~ 50/60Hz 700W

## INSTRUCTION MANUAL

Keep these instructions.

### Important Safety Precautions

**Important Safety Precautions**  
When using electrical appliances, basic safety precautions should always be followed, including the following:

**READ ALL INSTRUCTIONS**  
Do not immerse any part of this toaster in water or any other liquid.  
To protect against electric shock, do not immerse the cord, plugs, or parts in water or other liquid.  
Before first use, operate the toaster for a few minutes without bread. Some smoke may appear at first—this is completely normal.  
Do not touch hot surfaces. Use handles or knobs.  
Unplug from outlet when not in use and before cleaning. Allow to cool before putting on or removing parts.  
If the cord is damaged, it must be replaced by the manufacturer or an authorized service agent. Do not use outdoors.  
Keep the toaster out of reach of children. Use only pre-sliced bread.  
Do not insert oversized food, foil packages, or metal utensils into the toaster—this may cause an electric shock.  
Do not use the toaster near curtains, upholstery, or other decorative fabrics, as they may easily catch fire and create a safety hazard.  
Do not remove food while the lever is down.  
Do not remove the crumb tray while the toaster is plugged in. Unplug it from the power supply, allow it to cool, and then remove the tray.  
Bread may burn; therefore, toasters should not be used near or under curtains or other combustible materials. They should be supervised.

**Accessible surfaces may become hot during operation.**

- A short (or detachable) power cord should be provided to reduce the risk of entanglement or tripping over a longer cord.
- Longer detachable or extension cords are available and may be used with care.
- If a longer detachable cord or extension cord is used, the electrical rating of the set or extension cord must be at least as high as the rating of the appliance.

The cord should be arranged so that it does not hang over the countertop or table edge where it can be pulled or tripped over by children.

This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is designed to fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse it. If it still does not fit, contact a qualified electrician. Do not attempt to modify the plug in any way.

Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions or has been damaged in any way. Take the appliance to the nearest authorized service facility for examination, repair, or adjustment.

The use of attachments not recommended by the appliance manufacturer may cause injury. Do not let the cord hang over the edge of a table or counter, or touch hot surfaces.

Do not place on or near a hot gas or electric burner, or in a heated oven. Do not use the appliance for purposes other than intended.

Avoid contact with moving parts.  
The appliance must not operate with a separate timer or remote-control device.

This appliance is not intended for use 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 concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.

### PLEASE KEEP THESE INSTRUCTIONS

This appliance is intended for household use only.

#### MAIN COMPONENTS

- Start control
- Browning control
- Cancel button
- Crumb tray



#### OPERATING INSTRUCTIONS

**Placement:** Place the toaster on a flat, dry, and stable surface.  
**Power and adjustment:** Plug in the toaster and set the desired toasting level using the browning control (B).  
**Inserting bread:** Insert bread or other suitable food into the slots, then press the start control (A). Toasting cycle: The lever will remain down until the bread is toasted.  
**Stop toasting (optional):** If you wish to stop the toasting process, press the cancel button (C). This will automatically eject the bread and switch off the heating elements.  
**Jammed bread:** If bread gets stuck, unplug the toaster, allow it to cool, and then remove the bread.  
**NEVER USE METAL UTENSILS TO REMOVE BREAD.**  
**Cleaning:** After use, slide out the crumb tray (D) and clean crumbs with a dry cloth. Make sure the tray is reinserted before using the toaster again.  
**Continuous use:** Always allow the toaster to cool for at least 1 minute between cycles if using it repeatedly.  
**Damaged cord:** If the power cord is damaged, it must be replaced only by a qualified technician or the manufacturer.  
**Bread required:** Bread must be inserted when using the toaster; do not operate it empty. Household use: This toaster is for domestic use only.

#### CLEANING AND CARE INSTRUCTIONS - ALLOW THE TOASTER TO COOL COMPLETELY BEFORE CLEANING.

Do not immerse in water.  
Unplug from the power outlet.  
Do NOT use rough or abrasive sponges, cloths, or steel wool to clean the toaster.  
Never spray or apply cleaner directly onto or inside the toaster; cleaner must be applied to a soft cloth.  
Wipe the exterior with a soft, damp cloth, and polish with a soft, dry one.  
After cleaning, wait a few minutes for the toaster to dry completely before using. Any other servicing should be performed by an authorized service representative.

 Waste Electrical and Electronic Equipment (WEEE) Disposal Notice for End Users in the European Union

This symbol on the product or its packaging indicates that this product should not be disposed of with general household waste.

The user is responsible for disposing of such waste by taking it to a designated collection point for electrical and electronic waste.  
Selective collection and recycling of electrical equipment help preserve natural resources and ensure environmentally safe recycling to protect health and the environment.

For more information on the collection and recycling of electrical and electronic waste, please contact your local authority, household waste service, or the store where the product was purchased.

# APPENDIX B

## FINDINGS

When an interlaboratory comparison is conducted, findings are derived from the evaluation of practices, procedures, and results reported by all participating laboratories.

Any identified differences in the application of the test method may be documented in this report.

Where unsatisfactory or discrepant results are identified, participating laboratories are expected to address the relevant areas for improvement to ensure compliance with the applicable standard (IEC 60335-2-9 in conjunction with IEC 60335-1) and to maintain the reliability of future results.

Laboratories are therefore requested to implement appropriate corrective actions to enhance their performance in subsequent rounds.

The following differences were observed for participant **code 13**:

### **Clause 7 (Marking and instructions):**

Regarding sub-clause **7.12.9**, participant code 13 did not issue a verdict (NT – Not Tested), as the required verification was not performed.

Other laboratories verified the corresponding content in the user manual and issued a “FAIL” verdict.

As a result, participant code 13 reported an overall “PASS” for clause 7, differing from the consensus verdict of “FAIL”.

### **Clause 11 (Heating):**

Regarding sub-clause **11.8**, participant code 13 issued a “PASS” verdict without establishing a maximum winding temperature rise limit, due to the absence of information on the insulation material class.

Other laboratories applied a limit of 65 K, adopting the most conservative value from Table 3 of IEC 60335-1 when the material class is not specified.

Consequently, participant code 13 reported an overall “PASS” for clause 11, differing from the consensus verdict of “FAIL”.

The findings described above refer exclusively to observed differences among the results submitted by participants. They do not imply, in any way, that the participant’s result is directly attributable to these differences.

The participant is expected to conduct an internal analysis of any deviations that may have occurred during testing and to take appropriate corrective measures.

**----- END OF REPORT -----**