SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 11673

Date of issue: *May 15, 2026*

Status: FINAL REPORT

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IEC 60335-2-3

PARTICULAR REQUIREMENTS FOR ELECTRIC IRONS

Program: SQO-HA1 (Round 16)

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1. FOREWORD

This report summarizes the results of the **SQO-HA1 (Round 16)** proficiency testing program on the determination of safety of electric irons. This program is carried out under a simultaneous participation format, as described in clause A.2.2 of ISO/IEC 17043: 2023 (Types of PT schemes).

South Quality conducted the testing program from February / March 2026 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
Statistics:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to determine compliance with the general requirements of electric iron, using the following standard:

Standard
IEC 60335-1: 2020 + IEC 60335-2-3: 2022

To verify this, batches of electric iron 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 laboratories have participated with the following details:

CODE	Country	ISO 17025 accredited	Results delivered
01	England	Yes	Yes
02	Italy	Yes	Yes
03	Australia	Yes	Yes
04	Belgium	Yes	Yes
05	Malaysia	No	Yes
06	Mexico	Yes	Yes
07	Türkiye	No	Yes
08	Chile	Yes	Yes
09	Colombia	No	Yes
10	Portugal	No	No
11	France	Yes	Yes
12	South Africa	Yes	Yes
13	Hong Kong	Yes	Yes
14	Brazil	Yes	No
15	Saudi Arabia	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: **25 units** Tested samples from each batch: **5 units**

IEC 60335-2-3 Chapter No	Same results in the samples tested			
	Batch: LHA3115	Batch: LHA3116	Batch: LHA3117	Batch: LHA3118
6	YES	YES	YES	YES
7	YES	YES	YES	YES
8	YES	YES	YES	YES
9	NA	NA	NA	NA
10	YES	YES	YES	YES
11	YES	YES	YES	YES
13	YES	YES	YES	YES
14	NA	NA	NA	NA
15	YES	YES	YES	YES
16	YES	YES	YES	NO
17	NA	NA	NA	NA
18	NA	NA	NA	NA
19	YES	YES	YES	YES
20	YES	YES	YES	YES
21	YES	YES	YES	YES
22	NO	NO	YES	YES
23	YES	YES	YES	YES

IEC 60335-2-3 Chapter No	Same results in the samples tested			
	Batch: LHA3115	Batch: LHA3116	Batch: LHA3117	Batch: LHA3118
24	YES	YES	YES	YES
25	YES	YES	YES	YES
26	YES	YES	YES	YES
27	YES	YES	YES	YES
28	YES	YES	YES	YES
29	YES	YES	YES	YES
30	YES	NO	YES	YES
31	YES	YES	YES	YES
32	YES	YES	YES	YES

Samples for this program are taken from the selected batch identified as **LHA3117**.

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.

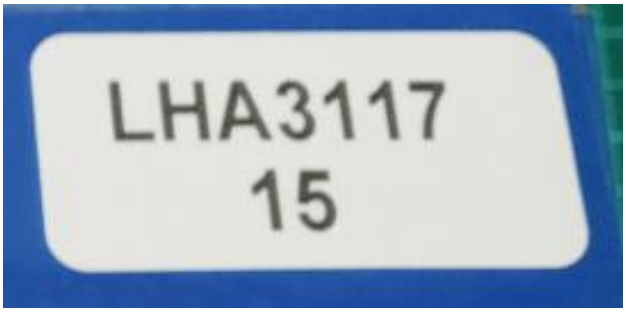
6. SAMPLE INFORMATION

The following sample was sent for testing (Participant **Code 15**):

Batch:	LHA3117
Sample ID:	15
Characteristics:	Electric steam iron - 220-240Vca - 50-60Hz - 1200W - 1 unit Trademark: - Model: 2001

7. IMAGES

SAMPLE



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	03	04	05	06	07	08	09	11	12	13	15	
6	Classification	P	P	P	P	P	P	P	F	P	P	P	P	P	**P**
7	Marking and instructions	F	F	F	F	F	F	F	F	F	F	F	F	F	**F**
8	Protection against access to live parts	P	P	P	P	P	P	P	F	P	P	P	P	P	**P**
9	Starting of motor-operated appliance	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	F	F	F
13	Leakage current and electric strength al operating temperature	P	P	P	P	P	P	P	P	P	P	P	P	P	**P**
14	Transient overvoltage	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**
18	Endurance	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**
19	Abnormal operation	F	F	F	F	F	F	F	F	F	F	F	F	F	F
20	Stability and mechanical hazards	P	P	P	P	P	P	P	P	P	P	P	P	P	**P**
21	Mechanical strength	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV

CHAPTER	REQUIREMENT	LABORATORY CODE													CONSENSUS VALUE
		01	02	03	04	05	06	07	08	09	11	12	13	15	
22	Construction	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV
23	Internal wiring	P	P	P	P	P	P	P	P	P	P	P	P	P	**P**
24	Components	P	P	P	P	P	F	P	P	P	P	P	P	P	**P**
25	Supply connection and external flexible cords	F	F	F	F	F	F	F	F	F	F	F	F	F	**F**
26	Terminals for external conductors	P	P	P	P	P	P	P	P	P	P	P	P	P	**P**
27	Provision for earthing	NV	NV	NV	NV	NV	NV	NV	F	NV	NV	NV	NV	NV	NV
28	Screws and connections	P	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	**P**
30	Resistance to heat and fire	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	**NV**
31	Resistance to rusting	P	P	P	P	P	P	P	P	P	P	P	P	P	**P**
32	Radiation, toxicity and similar hazards	P	P	P	P	NA	P	P	P	P	P	P	P	P	**P**

References:

P: PASS
F: FAIL
NA: NOT APPLICABLE
NV: NOT VERIFIED

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 **Appendix B** for review by the participating laboratory. For this purpose, chapters matching overall verdicts but discrepancies in subclauses are identified with an asterisk **(*)**.

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 has obtained **SATISFACTORY** results in the verification of all chapters.

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

Laboratory **Code 03**: The laboratory has obtained **SATISFACTORY** results in the verification of all chapters.

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

Laboratory **Code 05**: The laboratory has obtained **UNSATISFACTORY** results in the verification of chapter 32 (Radiation, toxicity and similar hazards). However, **SATISFACTORY** results were obtained for the remaining chapters.

Laboratory **Code 06**: The laboratory has obtained **UNSATISFACTORY** result in the verification of chapter 24 (Components). However, **SATISFACTORY** results were obtained for the remaining chapters.

Laboratory **Code 07**: The laboratory has obtained **SATISFACTORY** results in the verification of all chapters.

Laboratory **Code 08**: The laboratory has obtained **UNSATISFACTORY** results in the verification of chapters 6 (Classification), 8 (Protection against access to live parts) and 27 (Provision for earthing). However, **SATISFACTORY** results were obtained for the remaining chapters.

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

Laboratory **Code 10**: The laboratory did not send the results before the deadline.

Laboratory **Code 11**: The laboratory has obtained **SATISFACTORY** results in the verification of all chapters.

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

Laboratory **Code 13**: The laboratory has obtained **SATISFACTORY** results in the verification of all chapters.

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

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

12. CONCLUSIONS

The overall performance in the **SQO-HA1 (Round 16)** program, based on expected results from the participating laboratories, was as follows:

- Participants Codes **01, 02, 03, 04, 07, 09, 11, 12, 13,** and **15** have obtained **SUFFICIENT** performance according to the expected results, and no action is required;

- Participants Codes **05, 06,** and **08** have obtained **INSUFFICIENT** performance according to the expected results and must take action in the chapter/clauses where their results differ from the expected ones (see Appendix B).

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

- **SUFFICIENT** performance: No unsatisfactory results were obtained.

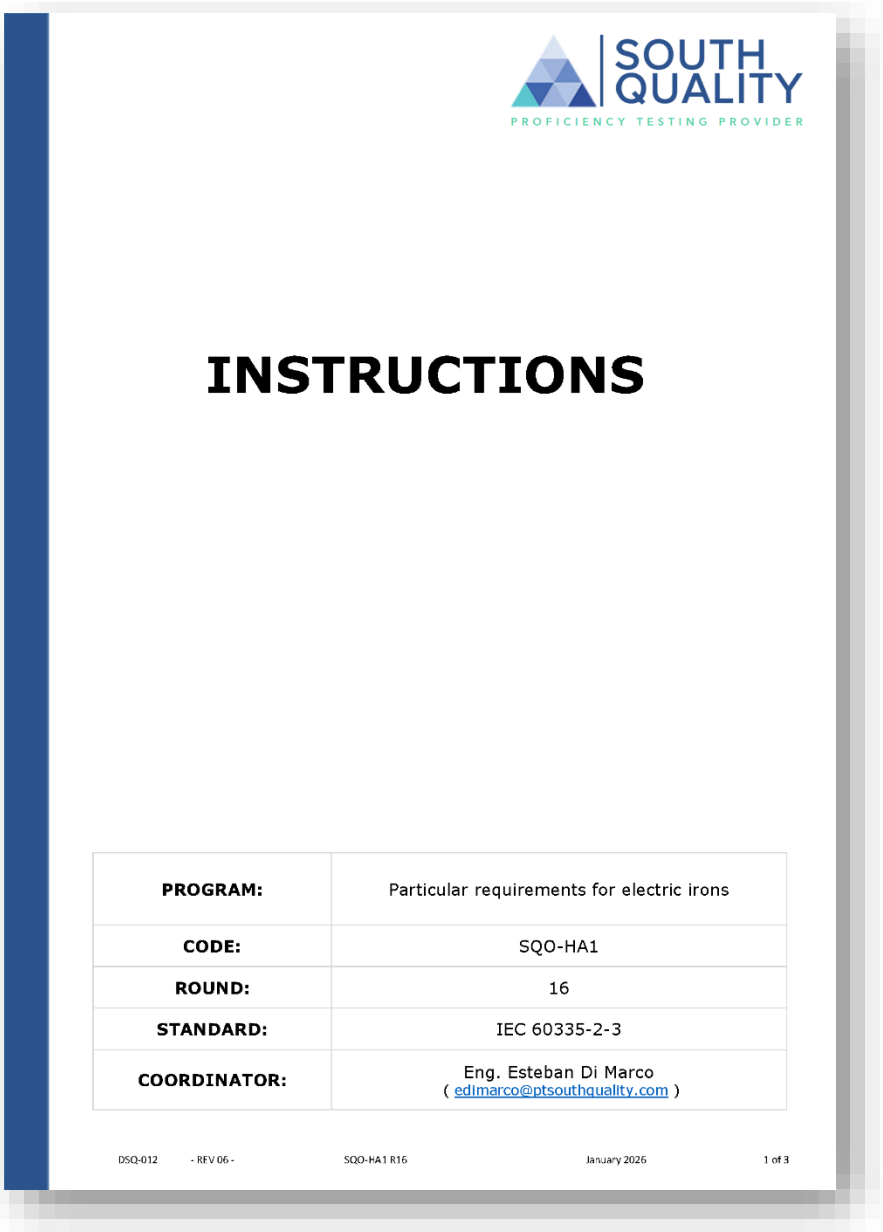
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

APPENDIX A

A1 - PARTICIPANT DATA

Company:	**Saudi Inspection&Testing Co**
Laboratory:	Electrical Testing Lab
Country:	Saudi Arabia
Client ID:	S361
Contact person:	Marwa Mahdy (Deputy of Technical Manager)
	saitco@saitco.com.sa

A2 - INSTRUCTIONS



INSTRUCTIONS

PROGRAM:	Particular requirements for electric irons
CODE:	SQO-HA1
ROUND:	16
STANDARD:	IEC 60335-2-3
COORDINATOR:	Eng. Esteban Di Marco (edimarco@ptsouthquality.com)

DSQ-012 - REV 06 - SQO-HA1 R16 January 2026 1 of 3

1 - General

This document serves as a guide for managing the results of the **SQO-HA1 (Round 16)** program.

2 - Standard

IEC 60335-2-3: 2022

3 - Participant

SAUDI INSPECTION&TESTING CO. Electrical Testing Lab	**CODE 15**

4 - Tests involved

TEST
Complete standard

5 - Samples

CODE	SAMPLE	QUANTITY
LHA3117-15	Electric steam iron - 220-240Vca - 50-60Hz - 1200W Model: 2001	1

6 - Notes

a) The deadline for the delivery of results is **March 31, 2026**.

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 60335-2-3**.

d) The tests must be carried out at **230V - 50/60 Hz**.

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 #PT2 (SQO-HA1))

الشركة السعودية للفحص والاختبار
SAUDI INSPECTION & TESTING CO. (SAITCO)
ملحق7 - أ:ملاحق متطلبات العملية- نتائج الاختبارات مختبر الكهرباء
Appendix 7-A: LAB process REQ. TEST RESULTS –ELECTRICAL LAB

SAITCO Saudi Inspection & Testing Co الشركة السعودية للفحص والاختبار

Code of product in Lab :	**C-146**		
LAB DATA		بيانات المختبر	
Laboratory name	اسم المختبر	**Saudi Inspection & Testing Co. (SAITCO)**	
Address	العنوان	**1st Industrial Area, St. No. 4, 5, 6, 7-Riyadh**	
Country	الدولة	**Saudi Arabia**	
Client Data		بيانات العميل	
Sample Date in	تاريخ استلام العينة	24/02/2026	
Date or period of tests	تاريخ / فترة الاختبار	14 / 3 / 2026	17 / 3 / 2026
Date of report issue	تاريخ اصدار التقرير	29/03/2026	
Laboratory test report number	رقم التقرير بالمختبر	PT2(SQO-HA1)	
Client Name	اسم العميل	SOUTH QULITY PT Provider	
Client Address	عنوان العميل	Pareja 3981 - Villa Devoto Buenos Aires Argentina	
Client Reference No. / Date	مرجع العميل	------	
No of received Samples	عدد العينات المستلمة	**1**	
Sample Data		بيانات العينة	
Product description	وصف المنتج	Electric Steam Iron	
Brand name or trademark	العلامة التجارية	Not marked	
Type or reference	النوع / المرجع	2001	
Country of Origin	بلد الصنع	CHINA	
Factory Name	اسم المصنع	---------	
Factory Address	عنوان المصنع	---------	
Manufacturer Name	اسم الشركة المُصَنِعة	---------	
Manufacturer Address	عنوان الشركة المُصَنِعة	---------	
Products Category	تصنيف المنتج	*Household and similar electrical appliances – Safety –Part 2-3: Particular requirements for electric irons*	
Standard / TR No.	رقم المواصفة / اللائحة	IEC 60335-2-3:2022 & IEC 60335-1:2020	PT Scheme
Test case verdicts		حالات الحكم على نتيجة الاختبار	
Conformity to articles tested		☐Yes	☑No
The test case does not apply to the test object		***Not Applicable***	***N/A***
The test item does meet the requirement		***Pass***	***P***
The test item does not meet the requirement		***Fail***	***F***
Test case does not verified to the test object		***Not Verified***	***NV***

Deputy Technical Manager

Test Report No:	PT2(SQO-HA1)	Standard No:	IEC 60335-1:2020 IEC 60335-2-3:2022
Clause	Requirement -Test	Result - Remark	Verdict
6	**CLASSIFICATION**		
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Class 0I	P
	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	-	N/A
6.2	Protection against harmful ingress of water.	IP20	P
7	**MARKING AND INSTRUCTIONS**		
7.1	Rated voltage or voltage range (V)	220-240V~	P
	Symbol for nature of supply, or	~	P
	Rated frequency (Hz)	50-60 Hz	P
M	Appliances shall be marked with their rated power input	1200W	P
	Rated current (A)	-	N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark	Not marked	F(a)
	Model or type reference	2001	P
	Symbol IEC 60417-5172, for class II appliances	Class 0I	N/A
	IP number, other than IPX0	IP20	P
	Symbol IEC 60417-5180, for class III appliances, unless	-	N/A
	the appliance is operated by batteries only, or	Not battery operated	N/A
	the appliance is powered by rechargeable batteries recharged in the appliance	-	N/A
	Appliance outlets accessible to the user and socket-outlets accessible to the user:	No outlets	N/A
	- that are incorporated in appliances connected to the supply mains, and	-	N/A
	- that operate at rated voltage	-	N/A
	Marked with their outlet load (W or A)	-	N/A
	Appliances intended to be supplied from a detachable power supply part to recharge the battery:	-	N/A
	- symbol ISO 7000-0790	-	N/A
	- symbol IEC 60417-6181	-	N/A
	- Model or type reference of the detachable power supply part, or	-	N/A
	- the substance of the following:		N/A
	Use only with <model or type reference> supply unit	-	N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	-	N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose- sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage	Not to connected to water mains	N/A
	Separate stands shall be marked with:	No separate stand	-
	- name, trademark or identification mark of the manufacturer or responsible vendor	-	N/A
A	- Model or type reference of the **stand.**	-	N/A
	Stands of **cordless irons** shall be marked with their	-	N/A
	- rated voltage or **rated voltage range;**	-	N/A
	- rated power input.	-	N/A
7.2	Warning for stationary appliances for multiple supply	Portable appliance	N/A
	Warning placed in vicinity of terminal cover	-	N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	220-240V 50-60Hz	P

Test Report No:	PT2(SQO-HA1)	Standard No:	IEC 60335-1:2020 IEC 60335-2-3:2022
Clause	Requirement -Test	Result - Remark	Verdict
	Different rated values marked with the values separated by an oblique stroke	-	N/A
	This requirement also applies to appliances with provision for connection to both single-phase and multi-phase supplies	-	N/A
	This requirement also applies to appliances with provision for connection to both single-phase and multi-phase supplies	-	N/A
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible	-	N/A
	If frequent changes in voltage or frequency setting are not required, the rated voltage or rated frequency to which the appliance is to be adjusted can be determined from a wiring diagram	-	N/A
	Wiring diagram may be on the inside of a cover that has to be removed to connect the supply conductors	-	N/A
	Wiring diagram not on a label loosely attached to the appliance	-	N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless	220-240V (230V) 1200W	P
	the power input or current are related to the arithmetic mean value of the rated voltage range	-	P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	-	P
7.6	Correct symbols used	-	P
	Symbol for nature of supply placed next to rated voltage	(~) Marked next to rated voltage	P
	Symbol for class II appliances placed unlikely to be confused with other marking	Class I	N/A
	Units of physical quantities and their symbols according to international standardized system	-	P
	Additional symbols give no rise to misunderstanding	-	P
	Symbols specified in IEC 60417 and ISO 7000 may be used	-	N/A
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	Portable appliance Single supply	N/A
	correct mode of connection is obvious	-	N/A
	For multi-phase appliances, correct mode of connection considered to be obvious if:	-	N/A
	- indicated by arrows pointing towards the terminals, or	-	N/A
	-marked in words	-	N/A
	Connection diagram may be the wiring diagram	-	N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:	Type Y	-
	- marking of terminals exclusively for the neutral conductor (letter N)	Crimped connections No letter N provided	F(a)
	- marking of protective earthing terminals (symbol IEC 60417-5019)	Marked but no connection	N/A
	- marking of functional earthing terminals (symbol IEC 60417-5018)	-	N/A
	- marking not placed on removable parts	-	N/A
7.9	Marking or placing of switches which may cause a hazard	No switch that may cause hazard	N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	Words and figures were used	P
	This applies also to switches which are part of a control	-	P

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Clause	Requirement -Test	Result - Remark	Verdict
	If figures are used, the off position indicated by the figure 0	Figure 0 not used	P
	The figure 0 indicates only OFF position, unless no confusion with the OFF position	-	N/A
	The figure 0 may be used on a digital programming keyboard	-	N/A
7.11	Indication for direction of adjustment of controls	Indicated	P
7.12	Instructions for safe use provided in hard copy form	Instruction manual provided	P
	Instructions may be marked on the appliance as long as they are visible in normal use	-	P
	Details concerning precautions during user maintenance	-	P
	The instructions 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	No information provided	F(a)
	- children should be supervised not to play with the appliance	See instruction manual	P
	For a part of class III construction supplied from a detachable power supply part, the instructions state that the appliance is only to be used with the unit provided	-	N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless	-	N/A
	It is a battery-operated appliance, the battery being charged outside the appliance	-	N/A
	For appliances for altitudes exceeding 2 000 m, the maximum altitude is stated	-	N/A
	The instructions for appliances incorporating a functional earth state that the appliance incorporates an earth connection for functional purposes	-	N/A
	The instructions for appliances intended to be connected to a supply for battery recharging	-	N/A
	The instructions for appliances intended to be supplied from a detachable power supply part for battery recharging state the type reference of the supply	-	N/A
	The instructions for appliances intended for use with batteries using metal-ion chemistries state the normal temperature range for battery charging	-	N/A
	Meaning of symbol for detachable power supply part explained, unless not used	-	N/A
	The instructions shall contain the substance of the following:	-	-
	- the iron must not be left unattended while it is connected to the supply mains;	See instruction manual	P
	- the iron must not be stored until it has cooled;	See instruction manual	P
	- the plug must be removed from the socket-outlet before the water reservoir is filled with water (for **steam irons** and irons incorporating means for spraying water);	See instruction manual	P
A	- the iron must only be used with the stand provided (for **cordless irons**);	-	N/A
	- the iron is not intended for regular use (for travel irons);	-	N/A
	- the iron must be used and rested on a flat, stable surface;	See instruction manual	P
	- when placing the iron on its stand, ensure that the surface on which the stand is placed is stable;	-	N/A
	- the iron is not to be used if it has been dropped, if there are visible signs of damage or if it is leaking.	See instruction manual	P

Test Report No:	PT2(SQO-HA1)	Standard No:	IEC 60335-1:2020 IEC 60335-2-3:2022
Clause	Requirement -Test	Result - Remark	Verdict
7.12.1	Sufficient details for installation supplied	Portable appliance No need installation	N/A
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	-	N/A
	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	-	N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules	Portable appliance	N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected	-	N/A
7.12.4	Instructions for built-in appliances:	Not built-in appliance	-
	- dimensions of space	-	N/A
	- dimensions and position of supporting and fixing	-	N/A
	- minimum distances between parts and surrounding structure	-	N/A
	- minimum dimensions of ventilating openings and arrangement	-	N/A
	- connection to supply mains and interconnection of separate components	-	N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	-	N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	Type Y attachment	N/A
	Replacement cord instructions, type Y attachment	See instruction manual	P
	Replacement cord instructions, type Z attachment	-	N/A
	Replacement cord set instructions, if required according to 22.58	-	N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard	-	N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	-	N/A
7.12.8	Instructions for appliances connected to the water mains:	Not connected to water mains	-
	- max. inlet water pressure (Pa);	-	N/A
	- min. inlet water pressure, if necessary (Pa)	-	N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	-	N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 are in hard copy form and appear together before any other instructions supplied with the appliance	Instruction manual provided	P
7.13	Instructions and other texts in an official language — Marking	English	P
	Instructions	No Arabic(KSA official language of the country)	F(b)
	Compliance is checked by inspection.	-	F(b)
7.14	Markings clearly legible:	Legible	P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	-	N/A
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm ,,	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless	-	N/A
	contrasting colours are used	-	N/A
	Markings checked by inspection, measurement and rubbing test as specified	Applied	P
	Markings clearly durable, and on containers that are likely to be cleaned frequently they are not by means of paint or enamel, other than vitreous enamel	Durable	P
7.15	Markings specified in 7.1 to 7.5 on a main part	On the main part	P
	Marking clearly discernible from the outside, if necessary after removal of a cover	Discernible	P
	For portable appliances, cover can be removed or opened without a tool	No cover	P
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	-	N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	-	N/A
	Indications for switches and controls placed on or near the components.	-	P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	-	N/A
	Type reference of detachable power supply part placed next to symbol IEC 60417-6181	-	N/A
	Marking of outlet load close to appliance outlet or socket-outlet	-	N/A
A	For **steam irons** with a separate water reservoir or boiler, the total **rated power input** shall be marked on the part containing the supply terminals or **supply cord.**	Steam iron No separate water reservoir	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	No fuse link provided	N/A

8	PROTECTION AGAINST ACCESS TO LIVE PARTS		
8.1	Adequate protection against accidental contact with live parts	No accessible live parts	P
8.1.1	Requirement applies for all positions, detachable parts removed unless otherwise specified	-	P
	Use of test probe B of IEC 61032	Applied	P
	- force not exceeding 1 N: no contact with live parts	-	P
	- force of 20 N: no contact with live parts	-	P
	- lamps behind a detachable cover not removed, if conditions met	No lamps	N/A
	- protection against contact with live parts of the lamp cap during lamp insertion or removal	-	N/A
	Use of test probe 18 of IEC 61032 for non-commercial appliances and commercial appliances intended for public access:	Not intended for commercial use	N/A
	- force not exceeding 1 N: no contact with live parts	-	N/A
	- force of 10 N: no contact with live part	-	N/A
	- appliance fully assembled as in normal use, no parts removed	-	N/A
	No contact with live parts protected by materials as specified	-	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 I	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	-	N/A
A	Note 101 Connecting devices in **stands** of **cordless irons** are not considered to be socket-outlets.	-	-
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements or supporting parts	-	N/A
	For a single switching action obtained by a switching device, requirements as specified	-	P
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug	-	N/A
8.1.4	Accessible part not considered live if:	Not SELV	N/A
	- safety extra-low AC voltage: peak value not exceeding 42,4 V	-	N/A
	- safety extra-low DC voltage: not exceeding 42,4 V	-	N/A
	- or separated from live parts by protective impedance	-	N/A
	If protective impedance: DC current not exceeding 2 mA, and	-	N/A
	AC peak value not exceeding 0,7 mA	-	N/A
	- for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 µF	-	N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 nC	-	N/A
	- for peak values over 15 kV, the energy in the discharge not exceeding 350 mJ	-	N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:	-	N/A
	- built-in appliances	-	N/A
	- fixed appliances	-	N/A
	- appliances delivered in separate units	-	N/A
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only	Class I	N/A
	Only possible to touch parts separated from live parts by double or reinforced insulation	-	N/A
8.3	For battery-operated appliances with a functional earth or supply connection, parts within a battery compartment only accessible if:	Not battery operated	N/A
	- class I, 0I and II appliances: separated from live parts by double and reinforced insulation	-	N/A
	- class 0 appliances: separated from live parts by basic insulation	-	N/A
	- battery compartment of class III construction, and basic insulation in addition to supply at SELV, if limits in 8.1.4 exceeded	-	N/A
	The test probes are only applied to built-in appliances and fixed appliances after installation	-	N/A

9	STARTING OF MOTOR-OPERATED APPLIANCE
	This clause of Part 1 is not applicable.

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Clause	Requirement -Test	Result - Remark	Verdict

10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in Table 1 :	See appended table	P
	If the power input varies throughout the operating cycle and its maximum value exceeds twice its arithmetic mean value occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period if this value is greater than the arithmetic mean value,	-	N/A
	otherwise the power input is the arithmetic mean value	-	N/A
	In case of doubt, the power input of the motors may be measured separately	-	N/A
	In case of measurement during a representative period, duration of the representative period	-	N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	Tested at 230V	P
	the rated power input is related to the arithmetic mean value of the relevant range	-	N/A
	Appliance outlets accessible to the user and socket-outlets accessible to the user incorporated in appliances connected to the supply mains and operating at rated voltage are not loaded during test,	-	N/A
	however, their contribution to the power input is considered to be the marked outlet load per appliance outlet or socket-outlet	-	N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in Table 2	No rated current	N/A
	If the current varies throughout the operating cycle and its maximum value exceeds twice its arithmetic mean value occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period if this value is greater than the arithmetic mean value,	-	N/A
	otherwise the current is the arithmetic mean value	-	N/A
	In case of doubt, the current of the motors may be measured separately	-	N/A
	In case of measurement during a representative period, duration of the representative period	-	N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	-	N/A
	the rated current is related to the arithmetic mean value of the relevant range	-	N/A
	Appliance outlets and socket-outlets accessible to the user incorporated in appliances connected to the supply mains and operating at rated voltage are not loaded during test,	-	N/A
	however, their contribution to the current is considered to be the marked outlet load per appliance outlet or socket-outlet	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict

11	HEATING		
11.1	No excessive temperatures in normal use	Excessive temperature	F(c)
11.2(R)	Irons are placed on their **stands** on the floor of a test corner and away from the walls.	No stands	N/A
	Separate water reservoir or boiler of **steam irons** is placed as near to the walls as possible.	No separate reservoir	N/A
	Vented steam irons with a separate water reservoir, **pressurized steam irons** and **instantaneous steam irons** are tested with the water reservoir empty and filled but without steam emission.	-	N/A
	Irons, other than **cordless irons,** are also tested with the **soleplate** in the horizontal position placed on three pointed metallic supports that have a height of at least 100mm.	-	P
	For appliances provided with an automatic cord reel, one-third of the total length of the cord is unreeled.	No cord reel	N/A
	If the cord reel is incorporated in a part that is moved during ironing, the cord is completely unreeled.	-	N/A
	For cord storage devices, other than automatic cord reels, that are intended to partially accommodate the **supply cord** while the appliance is in operation, 50cm of the cord is unwound.	-	N/A
	for cord storage devices on parts that are moved during ironing, the cord is completely unwound.	-	N/A
11.3	Temperature rises, other than of windings, determined by thermocouples	By thermocouple	P
	Temperature rises of windings determined by resistance method, unless	-	N/A
	the windings are non-uniform or it is difficult to make the necessary connections	-	N/A
A	The external **accessible surfaces** are suitably flat and access permits, then the test probe of Figure 101 is used to measure the temperature rises of external **accessible surfaces** specified in Table 101.	-	N/A
	The probe is applied with a force of 4 N ± 1 N to the surface in such a way that the best possible contact between the probe and the surface is ensured.	-	N/A
11.4	Heating appliances operated under normal operation at 1,15 times rated power input (W)	1.15 x 1200W = 1380W	P
A	If the temperature rise limits are exceeded in appliances incorporating motors, transformers or **electronic circuits** and the power input is lower than the **rated power input,** the test is repeated with the appliance supplied at 1.06 times **rated voltage.**	-	N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V)	-	N/A
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V)	-	N/A
11.7 (M)	Irons are operated until steady conditions are established.	-	P
	When **vented steam irons** with a separate water reservoir, **pressurized steam irons** and **instantaneous steam irons** are tested with the iron placed on the pointed supports, steam is emitted in cycles.	-	N/A
	Appliance outlets and socket-outlets accessible to the user loaded with a resistive load that gives the marked outlet load	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	For appliances incorporating integral batteries or separable batteries not disconnected from the appliance during charging:	-	N/A
	- the fully discharged battery is charged for 1 h, while the appliance is operated continuously performing its intended function	-	N/A
	- the fully discharged battery is charged for 24 h or until it is fully charged, without the appliance performing its intended function	-	N/A
	Temperature rises monitored continuously and not exceeding the values in Table 3 and Table 101	See appended table	F(c)
11.8(M)	Except for **supply cords** connected to separate containers, the temperature rise limit for the insulation of wiring and **supply cords** is increased from 50 K to 60 K.	-	P
	If the temperature rise of a motor winding exceeds the value of Table 3, or	-	N/A
	If there is doubt with regard to classification of insulation	-	N/A
	tests of Annex C are carried out	-	N/A
	Sealing compound does not flow out	-	N/A
	Protective devices do not operate, except	-	N/A
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	-	N/A
	During the test with the iron placed on the pointed supports, only the temperature rises of the insulation of interval wiring and flexible cords are measured.	-	P
	The temperature rise limits apply to the water reservoir and the hose of **pressurized steam irons** and **instantaneous steam irons.**	-	N/A
A	The temperature rise of the **accessible surface** of the hose shall comply with the temperature rise limits for handles that are held for short periods only in normal use.	-	N/A
	If a non-metallic hose is covered by textile material, the temperature rise of the surface of the textile material shall not exceed 80 K.	-	N/A
12	**CHARGING OF METAL-ION BATTERIES**		
	Charging a battery that uses metal-ion chemistry does not cause any cell to exceed its operating region for charging	Not battery operated	N/A
	Fully discharged battery is charged with the charging system indicated in the instructions at an ambient temperature of 20 °C ± 5 °C	-	N/A
	Test repeated at:	-	-
	- minimum ambient temperature, if specified to be less than 10 °C by the manufacturer (°C)	-	N/A
	- at maximum ambient temperature, if specified to be greater than 40 °C by the manufacturer (°C)	-	N/A
	For all individual cells, the voltage, temperature and charging current are monitored.	-	N/A
	For parallel configuration, analysis may be used to avoid measuring the individual branch currents,	-	N/A
	the test result not exceeding the specified operating region for charging	-	N/A
	Location of thermocouples for each cell temperature measurement on the outer surface, halfway along the longest dimension of the cell	-	N/A
	For each cell, the specified operating region for charging	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	specified by the cell manufacturer is not exceeded at the temperature of the cell		
	For batteries where cells are configured in series, the test is repeated with the charge in one battery deliberately imbalanced, the imbalance being introduced into a fully discharged battery by charging one cell to:	-	-
	- approximately 50 % of its full charge, or	-	N/A
	- less than 50 % of its full charge, if it can be demonstrated as specified that this would occur in normal operation	-	N/A
13	**LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE**		
13.1	Leakage current not excessive and electric strength adequate	Adequate strength	P
	Heating appliances operated at 1,15 times the rated power input (W)	1.15 x 1200W = 1380W	P
	Motor-operated appliances and combined appliances supplied at 1,06 times the rated voltage (V).	-	N/A
	Protective impedance and radio interference filters disconnected before carrying out the tests	-	N/A
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:2016	-	P
	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter	class 0I	-
	Leakage current measurements.	See appended table	P
13.3	The appliance is disconnected from the supply	-	P
	Electric strength tests according to Table 4	See appended table	P
	No breakdown during the tests	No breakdown occurred	P
14	**TRANSIENT OVERVOLTAGES**		
	Appliances withstand the transient over-voltages to which they may be subjected	-	N/A
	Clearances having a value less than specified in Table 16 subjected to an impulse voltage test, the test voltage specified in Table 6	-	N/A
	No flashover during the test, unless	-	N/A
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited	-	N/A
15	**MOISTURE RESISTANCE**		
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	IP20	P
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	-	N/A
	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29	-	N/A
	No water in the enclose of appliances and parts of appliances with pins for insertion into socket-outlets	-	N/A
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:1989 including IEC 60529:1989/AMD1:1999 and IEC 60529:1 989/AMD2:201 3	IP20	N/A
	Water valves containing live parts in external hoses for	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	connection of an appliance to the water mains tested as specified for IPX7 appliances		
15.1.2	Hand-held appliances turned continuously through the most unfavourable positions during the test	-	N/A
	Appliances with an automatic cord reel are tested according to 15.1.1 with the supply cord unreeled, coiled and reeled again as specified, and	-	N/A
	for fixed appliances mounted on the wall or ceiling, the cord is dropped from the minimum height as specified in the instructions before being coiled	-	N/A
	Built-in appliances installed according to the instructions	-	N/A
	Appliances placed or used on the floor or table placed on a horizontal un perforated support	-	N/A
	Appliances normally fixed to a wall are mounted on a wooden board	-	N/A
	Appliances and parts of appliances with integral pins for insertion into socket-outlets are held by the pins in the most unfavourable position without being mounted in a socket-outlet	-	N/A
	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	-	N/A
	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	-	N/A
	for appliances normally used on the floor or table, the movement is limited to **two times 90 ◌ for a period of 5 min**, the support being placed at the level of the pivot axis of the oscillating tube	-	N/A
	Wall-mounted appliances with the distance to the floor stated in the instructions are tested with a board placed accordingly under the appliance	-	N/A
	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	-	N/A
	for IPX4 appliances, the movement of the tube is limited to two **times 90 ◌ from the vertical for a period of 5 min**	-	N/A
	Appliances with type X attachment fitted with a flexible cord as described, unless	-	N/A
	having a specially prepared cord	-	N/A
	Detachable parts removed and subjected to the relevant treatment with the main part, however	-	N/A
	not removed if the instructions state that the part must be removed for user maintenance and a tool is needed	-	N/A
	The test for **steam irons,** other than those with a separate water reservoir or boiler, is carried out as follows.	-	-
	The iron is placed in the filling position according to the instructions and filled with the spillage solution.	-	P
	A further quantity of 0.1 L is steadily poured into the filling opening over a period of 1 min.	-	P
15.2(M)	The iron is then placed on its **stand** and subjected to the electric strength test of 16.3.	-	P
	The iron is left on its **stand** for 10 min after which the electric strength test is repeated.	-	P
	The iron, while still filled, is operated at **rated power input** for 1 min under **normal operation.**	-	P
	It shall then withstand the electric strength test of 16.3.	-	P

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Clause	Requirement -Test	Result - Remark	Verdict
	Cordless irons are also filled with the spillage solution while resting on their **stands,** if the iron can easily be filled in this position	-	N/A
	Appliances with type X attachment fitted with a flexible cord as described, unless	-	N/A
	having a specially prepared cord	-	N/A
	Appliances incorporating an appliance inlet tested with or without a connector, whichever is most unfavourable	-	N/A
	Detachable parts are removed	-	N/A
	Overfilling test with additional amount of the solution, over a period of 1 min (l)	-	N/A
	Non-ionic rinsing agent complies with the specified properties	-	N/A
	The appliance withstands the electric strength test of 16.3	-	N/A
	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29	-	N/A
15.3	Appliances proof against humid conditions	-	P
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	-	P
	Cable entries, if any, left open	-	N/A
	If knock-outs provided, one of them opened	-	N/A
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	-	N/A
	Humidity test for 48 h in a humidity cabinet	Applied	P
	Reassembly of those parts that may have been removed	-	N/A
	The appliance withstands the tests of clause 16	No breakdown occurred	P
16	**LEAKAGE CURRENT AND ELECTRIC STRENGTH**		
16.1	Leakage current not excessive and electric strength adequate	Adequate strength	P
	Protective impedance disconnected from live parts before carrying out the tests	-	N/A
	Tests carried out at room temperature and not connected to the supply	-	P
16.2	Single-phase appliances: test voltage 1,06 times rated voltage (V)	1.06 x 240V = 254.4V	P
	Three-phase appliances: test voltage 1,06 times rated voltage divided by √3 (V)	Single phase	N/A
	Leakage current measurements	See appended table	P
	Limit values doubled if:		
	- all controls have an off position in all poles, or	-	P
	- the appliance has no control other than a thermal cut-out, or	-	N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or	-	N/A
	- the appliance has radio interference filters	-	N/A
	With the radio interference filters disconnected, the leakage current does not exceed limits specified	-	N/A
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
	No breakdown during the tests	No breakdown occurred	P

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Clause	Requirement -Test	Result - Remark	Verdict

17	**OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS**		
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	No transformers	N/A
18	**ENDURANCE**		
	This clause of Part 1 is not applicable.		
19	**ABNORMAL OPERATION**		
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	Risk of fire Sample steam iron was totally burned	F(d)
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	-	N/A
M	The tests of 19.2 and 19.3 are not carried out. The test of 19.5 is only carried out on separate boilers of steam irons.	-	N/A
A	Cordless irons are also subjected to the test of 19.101.	With supply cord provided	N/A
	If the appliance also has a control that limits the temperature during clause 11 it is subjected to the test of 19.4, and	-	N/A
	If applicable, to the test of 19.5	-	N/A
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	-	N/A
	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	-	N/A
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	-	N/A
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	-	N/A
	Appliances incorporating voltage selector switches subjected to the test of 19.15	-	N/A
	Appliances having a mains connection and replaceable batteries subjected to the test of 19.16	-	N/A
	Appliances incorporating rechargeable batteries that use metal-ion chemistries subjected to the test of 19.17	-	N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	-	N/A
	until steady conditions are established	-	N/A
	If a heating element or an intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample, and	-	N/A
	that same part on the second sample does also become permanently open-circuited in the second test,	-	N/A
	unless a non-self-resetting thermal cut-out operates or steady conditions are established	-	N/A
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0,85 times rated power input (W) ..	Not applied as per 60335-2-3	N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1,24 times rated power input (W)	Not applied as per 60335-2-3	N/A
19.4(M)	The test is carried out at **rated power input**	1200W	P
	Any control that limits the temperature during the test of Clause 11 is short-circuited.	Sample steam iron was totally burned	F(d)
	If the appliance incorporates more than one control, they are short-circuited in turn.	-	F(d)
A	**Steam irons** are tested with or without water, whichever is more unfavourable.	Applied	F(d)

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Clause	Requirement -Test	Result - Remark	Verdict

	Note It can be necessary to conduct the test with and without water to determine the more unfavourable condition.	-	-
	The test is only carried out with the iron resting on its **stand.**	Applied	P
	Any control that limits the pressure during the test of Clause 11 is rendered inoperative.	N ot provided	N/A
19.5	Test of 19.4 repeated on class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath	-	N/A
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	-	N/A
	The test is not carried out on appliances intended to be permanently connected to fixed wiring, on appliances where an all-pole disconnection occurs during the test of 19.4, or on appliances used in a system with polarized plugs intended for connection to polarized socket outlets	-	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	-	N/A
	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).	-	N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	-	N/A
	locking moving parts of other appliances	-	N/A
	Locked rotor, capacitors open-circuited one at a time	-	N/A
	Test repeated with capacitors short-circuited one at a time, unless	-	N/A
	the capacitor is of class S2 or S3 of IEC 60252- 1:2010 including IEC 60252-1:2010/AMD1:2013	-	N/A
	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed .	-	N/A
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit	-	N/A
	Other appliances supplied with rated voltage for a period as specified	-	N/A
	Winding temperatures not exceeding values specified in Table 8	-	N/A
A	The test is carried out for 5 min unless the motor is kept switched on by hand.	-	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	-	N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	-	N/A
	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	-	N/A
	Winding temperatures not exceeding values as specified ..	-	N/A
19.10	Series motor operated at 1,3 times rated voltage for 1 min (V) ..	-	N/A
	During the test, parts not being ejected from the appliance	-	N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict

	conditions specified in 19.11.2 for all circuits or parts of circuits, unless		
	they comply with the conditions specified in 19.11.1	-	N/A
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	-	N/A
	restarting does not result in a hazard	-	N/A
	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	-	N/A
	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out	-	N/A
	During and after each test the following is checked:	-	N/A
	- the temperature of the windings does not exceed the values specified in Table 8	-	N/A
	- the appliance complies with the conditions specified in 19.13	-	N/A
	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	-	N/A
	If a conductor of a printed board becomes open-circuited, the appliance is considered to have withstood the particular test, provided both of the following conditions are met	-	N/A
	- the base material of the printed circuit board withstands the test of normative Annex E	-	N/A
	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	-	N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to circuits or parts of circuits meeting both of the following conditions:	-	N/A
	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified	-	N/A
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit	-	N/A
19.11.2	Fault conditions applied one at a time, the appliance operating under conditions specified in clause 11, but supplied at rated voltage, duration of the tests as specified.	-	N/A
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29	-	N/A
	b) open circuit at the terminals of any component	-	N/A
	c) short circuit of capacitors, unless	-	N/A
	they comply with IEC 60384-14:2013 including IEC 60384-14:2013/AMD:2016	-	N/A
	d) short circuit of any two terminals of an electronic component, other than integrated circuits	-	N/A
	This fault condition is not applied between the two circuits of an optocoupler	-	N/A
	e) failure of triacs in the diode mode	-	N/A
	f) failure of microprocessors and integrated circuits	-	N/A
	g) failure of an electronic power switching device	-	N/A
	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made	-	N/A
	Any cord between a battery-operated appliance consuming	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict

	more than 15 W and the detachable power supply part short-circuited as specified		
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified	-	N/A
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	-	N/A
	a device that can be placed in the stand-by mode,	-	N/A
	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand- by mode	-	N/A
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated as specified, however	-	N/A
	tests of electromagnetic phenomena not applied to protective electronic circuits operating during 19.7 in appliances that are used while attended	-	N/A
	Surge protective devices disconnected, unless	-	N/A
	they incorporate spark gaps	-	N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	-	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges as specified	-	N/A
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	-	N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5 as specified	-	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	-	N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4- 11:2020	-	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13:2002 including IEC 61000-4-13:2002/AMD1:2009 and IEC 61000- 4-13:2002/AMD2:2015, test level class 2	-	N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60 s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	-	N/A
	The appliance continues to operate normally, or	-	N/A
	requires a manual operation to restart	-	N/A
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), current rating of the fuse-link (A)	-	N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	Sample steam iron was totally burned	F(d)
	Temperature rises not exceeding the values shown in table 9	Sample steam iron was totally burned	F(d)
	Compliance with clause 8 not impaired	Clause 8 no longer applicable Sample was totally burned	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	If the appliance can still be operated, it complies with 20.2	Sample was totally burned	N/A
	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:	-	N/A
	- basic insulation (V	-	N/A
	- supplementary insulation (V)	-	N/A
	- reinforced insulation (V)	-	N/A
	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	-	N/A
	The appliance does not undergo a dangerous malfunction, and	-	N/A
	no failure of protective electronic circuits, if the appliance is still operable	-	N/A
	For accessible safety extra-low voltage outlets, connectors, or USB outlets, no increase of the no- load output voltage by more than 3 V or 10 % of the voltage in normal use, whichever higher, with a maximum/peak of 42,4 VDC/VAC	-	N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:	-	N/A
	- do not become operational, or	-	N/A
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	-	N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that both	-	N/A
	- the lid or door does not move automatically to an open position when the interlock is released, and	-	N/A
	- the appliance does not start after the cycle in which the interlock was released	-	N/A
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	-	N/A
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	-	N/A
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short- circuited	-	N/A
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	-	N/A
	If the appliance has several modes of operation, the tests are carried out with the appliance operating in each mode, if necessary	-	N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied	-	N/A
19.16	Appliances having mains connection and replaceable batteries supplied at rated voltage and operated under normal operation but with batteries removed or in any position allowed by construction	-	N/A
19.17	For battery-operated appliances incorporating a battery using metal-ion chemistry, the battery system is operated according to the instructions and tested under the following conditions, duration as specified:	-	N/A
	a) series configured battery:	-	N/A

Test Report No:	PT2(SQO-HA1)	Standard No:	IEC 60335-1:2020 IEC 60335-2-3:2022
Clause	Requirement -Test	Result - Remark	Verdict
	- imbalance introduced into fully discharged battery by charging one cell to the percentage of being fully charged applied during the test of Clause 12;	-	N/A
	- single cell or parallel only configured battery: fully discharged	-	N/A
	b) series configured battery: imbalance introduced as specified and fully charged, if the test of clause 12 was conducted with an imbalance of less than 50 % and if a single fault in the circuitry results in the loss of maintaining balance	-	N/A
	c) series configured battery: cells at 50 % of full charge, except one which is shortened, battery then fully charged	-	N/A
	d) fully charged battery connected to the charging system: short circuit introduced to the charging system as specified to produce the most unfavourable results, and for a charging system with a cord connecting to the battery, short circuit introduced at a point producing the most adverse effects, resistance of short circuit not exceeding 10 mΩ	-	N/A
	No explosion or ignition of the battery during or after the test	-	N/A
	Voltage on any cell not exceeding upper limit charging voltage by more than 150 mV, unless	-	N/A
	charging system permanently disabled from recharging battery, checked as specified	-	N/A
	Recharging considered to be permanently disabled, if:	-	N/A
	- battery discharged to approximately 50 % of full charge, by using the battery-operated appliance tested (in case of an integral battery), or	-	N/A
	by using a new sample of the battery-operated appliance (in case of a detachable and separable battery)	-	N/A
	- attempt made to recharge battery normally	-	N/A
	- no charging current after 10 min or after 25 % of the nominal capacity has been delivered, whichever occurs first	-	N/A
19.101	**Cordless irons** are operated under **normal operation** at **rated power input** until the **thermostat** operates for the first time. The iron is then placed on its **stand** in the position that most adversely affects the material of the **stand.**	-	N/A

20	STABILITY AND MECHANICAL HAZARDS		
	Irons shall have adequate stability	-	P
	Compliance is checked by the following test, which is carried out with the appliance not connected to the supply mains.	-	P
	Irons incorporating a **stand** are placed on their **stand** on a plane inclined at an angle of 10° to horizontal, the cord resting on the inclined plane in the position resulting in the least stable condition.	Applied	P
20.1(R)	Irons supplied with a separate **stand** are placed on the **stand** on a plane inclined at an angle of 15° to the horizontal.	-	N/A
	Appliances intended to be filled with liquid by the user are tested empty or filled with the quantity of water up to the capacity indicated in the instructions resulting in the least stable condition.	Tested empty	P
	If the iron overturns or slips off the **stand** in one or more positions, it is tested as specified in Clause 11 in all these positions.	Did not slip or overturn	P
	Temperature rise shall not exceed values shown in Table 9	-	N/A
20.2	Moving parts adequately arranged or enclosed as to provide	No moving parts	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	protection against personal injury		
	Protective enclosures, guards and similar parts are non-detachable, and	-	N/A
	have adequate mechanical strength	-	N/A
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	-	N/A
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	-	N/A
	Not possible to touch dangerous moving parts with the test probes, checked by:	-	-
	- inspection	-	N/A
	- test of 21.1	-	N/A
	- applying a force not exceeding 5 N by means of a test probe similar to test probe B of IEC 61032 but having a circular stop face with a diameter of 50 mm, instead of the noncircular face	-	N/A
	- applying test probe 18 of IEC 61032 with a force not exceeding 2,5 N, if appliance intended for non- commercial use or to be installed in an area open to the public	-	N/A

21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	Sample was totally burned during the abnormal test of clause 19	NV
	Checked by applying 3 blows to every point of the enclosure likely to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	-	NV
	Appliances and parts of appliances having pins for insertion into mains socket-outlets subjected to the test, Free fall repeated, procedure 2, of IEC 60068- 2-31, under the specified conditions	-	NV
	The appliance shows no damage impairing compliance with this standard, and	-	NV
	compliance with 8.1, 15.1 and clause 29 not impaired	-	NV
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	-	NV
	If necessary; repetition of groups of three blows on a new sample	-	NV
A	Compliance is also checked by the tests of 21.101 and 21.102.	-	NV
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implement	-	NV
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	-	NV
21.3	Appliances with pins for insertion into socket- outlets with a rotating plug part are provided with a mechanical stop to prevent rotation having adequate mechanical strength and constructed to withstand rough handling	-	NV
	Application of a torque of 2 Nm for 1 min does not result in rotation of the plug part after rotating it until the mechanical stop prevents further rotation, both directions checked	-	NV
21.101	The iron is operated under **normal operation** at **rated power input** and, except for **cordless irons,** the **soleplate** temperature is maintained under these conditions throughout the test.	-	P
	The iron is then suspended by its handle with the **soleplate** in	-	P

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Clause	Requirement -Test	Result - Remark	Verdict
	the horizontal position.		
	It is dropped from a height of 40 mm onto a rigidly supported steel plate.	-	P
	The test is carried out 1000 times at a rate of not exceeding 20 drops per min.	-	P
	After the test, the iron shall not be damaged to such an extent that compliance with 8.1, 15.2 and Clause 29 is impaired.	-	P
	In case of doubt, **supplementary insulation and reinforced insulation** is subjected to the electric strength test of 16.3	-	P
21.102	A separate sample of the iron is supplied at **rated voltage** with the **thermostat** set to the highest position. When the **thermostat** operates, the iron is disconnected from the supply.	-	NV
	The hand-held part of the iron is then placed in a sling that is constructed by tying together the four corners of a single layer of cheesecloth.	-	NV
	The lowest point of the sling is suspended at a height of 900 mm above a horizontal hardwood board.	-	NV
	The iron in the sling is dropped from a stationary position.	-	NV
	The test is carried out three times, the iron being positioned so that it falls onto the board first on the right side, then on the left side and subsequently on its heel.	-	NV
	The iron is reheated prior to each drop.	-	NV
	After the test, the iron shall withstand the electric strength test of 16.3, **steam irons** first being filled with water as specified in the instructions and allowed to rest for 10 min on their stands	-	NV
	The iron shall not be damaged to such an extent that compliance with 8.1 and 19.4 is impaired.	-	NV

22	CONSTRUCTION		
22.1	Appliance marked with the first numeral or any of the additional letters of the IP system	IP20	-
22.2	Stationary appliance: means to ensure disconnection from the supply being provided:	Portable appliance	N/A
	- a supply cord fitted with a plug, or	-	N/A
	- a switch providing all-pole disconnection complying with 24.3, or	-	N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	-	N/A
	- an appliance inlet	-	N/A
	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 0I and class I appliances, connected to the line conductor	-	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	-	N/A
	Means for retaining pins withstand the forces to which the pins are like to be subjected in normal use	-	N/A
	Applied torque not exceeding 0,25 Nm, torque to keep the socket-outlet itself in the vertical plane not included in this value	-	N/A
	Pull force of 50 N for 1 min to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1 mm	-	N/A
	Each pin subjected to a torque of 0,4 Nm; the pins are not	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	rotating, unless		
	rotating does not impair compliance with this standard	-	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	Not for heating liquid	N/A
22.5	No risk of electric shock from charged capacitors resulting in a capacitance equal or greater than 0,1 µF when touching pins, the appliance being disconnected from the supply at the instant of voltage peak	-	N/A
	Voltage not exceeding 34 V		
	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	-	N/A
	The test for measuring the voltage between the pins of the plug is then repeated three times, voltage not exceeding 34 V (V)	-	N/A
22.6	Electrical insulation not affected by condensing water or leaking liquid	-	N/A
	Electrical insulation of class II appliances not affected if a hose ruptures or seal leaks	-	N/A
	In case of doubt, test as described	-	N/A
	Pressurized steam irons and **instantaneous steam irons** shall incorporate adequate safeguards against the risk of excessive pressure.	-	N/A
	If jets of steam or hot water are emitted through **protective devices**, the electrical insulation shall not be affected or the user exposed to a hazard.	-	N/A
	For **pressurized steam irons,** the maximum pressure occurring during the test of Clause 11 with the boiler filled but without steam emission is measured.	-	N/A
	All pressure-regulating devices that operated during the test are rendered inoperative and the pressure shall not exceed three times the previously measured value.	-	N/A
	Any pressure-limiting **protective device** is then rendered inoperative and the pressure in the boiler is raised hydraulically to five times the pressure measured originally or twice the pressure measured with the pressure-regulating devices rendered inoperative, whichever is higher.	-	N/A
22.7(R)	This pressure is maintained for 1 min.	-	N/A
	There shall be no leakage from the appliance.	-	N/A
	Pressurized steam irons in which the device is regulating the steam supply is within the boiler are operated as specified in Clause 11 but with all pressure-regulating devices operating during the test of Clause 11 rendered inoperative.	-	N/A
	All vents in the **soleplate** are sealed and the device regulating the steam supply is opened.	-	N/A
	There shall be no leakage from the hose except at an intentionally weak place within the enclosure of the boiler.	-	N/A
	If this occurs, the test is repeated in another appliance that shall also leak in the same way.	-	N/A
	All vents in the **soleplate** of **instantaneous steam irons** are sealed and the pressure in the water reservoir is raised hydraulically until the pressure-limiting **protective device** operates.	-	N/A
	The pressure shall not exceed 50 kPa.	-	N/A
	The outlet through the **protective device** is then sealed and	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	pressure is raised to 100 kPa and maintained at this value for 1 min.		
	There shall be no leakage from the appliance.	-	N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use	-	N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	-	N/A
	the substance has adequate insulating properties		
22.10	Not possible to reset voltage-maintained non-self- resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:	-	N/A
	- a non-self-resetting thermal cut-out is required by the standard, and	-	N/A
	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	-	N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless	-	N/A
	they are voltage maintained	-	N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	-	N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	-	NV
	Obvious locked position of snap-in devices used for fixing such parts	-	NV
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	-	NV
	Tests as described	-	NV
22.12	Handles, knobs, etc. fixed in a reliable manner, if loosening could result in a hazard, including a choking hazard	-	NV
	Requirement concerning the choking hazard does not apply to commercial appliances	-	NV
	Removing or fixing in wrong position of handles, knobs, etc. indicating position of switches or similar components not possible, if resulting in a hazard	-	NV
	No use of sealing compound and similar materials, other than self-hardening resins, to prevent loosening	-	NV
	Axial force of 15 N applied for 1 min to parts unlikely to be subjected to axial pull in normal use	-	NV
	Axial force of 30 N applied for 1 min to parts likely to be subjected to axial pull in normal use	-	NV
	Loosening of removed parts not resulting in a choking hazard, checked with small parts cylinder	-	NV
22.13(R)	Appliances shall be constructed so that when handles are gripped in normal use, contact is unlikely between the operator's hand and parts that could be unintentionally touched having a temperature rise exceeding the value specified in Table 3 for handles which are held for short periods only in normal use and Table 101 for surface adjacent to a handle of a hand-held unit that could be unintentionally touched when gripping the handle.	-	NV
	Compliance is checked by inspection, measurement and, if necessary, by determining the temperature rise as follows.	-	NV

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Clause	Requirement -Test	Result - Remark	Verdict
	Temperature measurements are made on the surface defined by the vertical projection of the handle or gripping surface onto the body of the iron where the feeler gauge makes contact with surface plus 25 mm in all directions.	-	NV
22.14	No ragged or sharp edges creating a hazard for the user in normal use or during user maintenance	-	N/A
	No exposed pointed ends of self-tapping screws or other fasteners likely to be touched by the user in normal use or during user maintenance	-	N/A
22.15	Storage hooks and the like for flexible cords smooth and well rounded	-	N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductor strands and no undue wear of contacts	-	N/A
	Cord reel tested with 6 000 operations, as specified	-	N/A
	Electric strength test of 16.3, voltage of 1 000 V applied	-	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	-	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion, unless	-	NV
	made from stainless steel, plated steel or similar corrosion-resistant alloys	-	NV
22.19	Driving belts not relied upon to provide the required level of insulation, unless	-	N/A
	constructed to prevent inappropriate replacement	-	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	-	P
	material used is non-corrosive, non-hygroscopic and non-combustible, or thermal insulation is glass- wool	-	P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	Not used	P
	impregnated	-	N/A
	Requirement not applicable to magnesium oxide and mineral ceramic fibres electrically insulating heating elements and insulating material where fibre interstices are filled with a suitable insulant	-	N/A
22.22	Appliances not containing asbestos	No asbestos	P
22.23	Oils containing polychlorinated biphenyl (PCB) not used	Not used	P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	-	N/A
	In case of rupture, the heating conductor is unlikely to come into contact with accessible metal parts	-	N/A
22.25	Sagging heating conductors cannot come into contact with accessible metal parts	-	N/A
	Requirement not applicable to class III appliances or class III constructions without live parts, appliances where a core effectively prevents sagging, or where supplementary insulation prevents contact	-	N/A
22.26	For class III constructions, the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	-	N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
22.28	Metal parts of class II appliances conductively connected to gas pipes or in contact with water separated from live parts by double or reinforced insulation	-	N/A
22.29	Class II appliances permanently connected to fixed wiring constructed so that the required degree of access to live parts is maintained after installation	-	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	-	N/A
	constructed so that they cannot be replaced in an incorrect position and if omitted, the appliance is rendered inoperable or manifestly incomplete	-	N/A
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values in clause 29 as a result of wear	-	NV
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws, etc. become loose	-	NV
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	-	N/A
	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2	-	N/A
	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation	-	N/A
	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	-	N/A
	No visible cracks after oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	-	N/A
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts, or	-	P
	unearthed metal parts separated from live parts by basic insulation only	-	P
	Electrodes not used for heating liquids	-	P
	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with basic or reinforced insulation, unless	-	P
	the reinforced insulation consists of at least 3 layers	-	P
	For class II constructions, conductive liquids which are in contact with live parts are not in direct contact with reinforced insulation, unless	-	P
	the reinforced insulation consists of at least 3 layers	-	P
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	-	P
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	-	P
	the shaft is not accessible when the part is removed	-	P
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the	-	P

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Clause	Requirement -Test	Result - Remark	Verdict

	event of a failure of basic insulation		
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation	-	P
	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	-	P
	Insulating material covering metal handles, levers and knobs withstands the electric strength test of 16.3 for supplementary insulation	-	P
22.36	For appliances other than class III appliances, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operator's hand is not likely to touch metal parts, unless	-	P
	they are separated from live parts by double or reinforced insulation	-	P
22.37	Capacitors in class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless	-	N/A
	the capacitors comply with 22.42	-	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	-	N/A
22.39	Lampholders used only for the connection of lamps	-	N/A
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible	-	N/A
	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	-	N/A
22.41	No components, other than lamps, containing mercury	-	P
22.42	Protective impedance consisting of at least two separate components	-	N/A
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open- circuited	-	N/A
	Resistors checked by the test of 14.2 a) in IEC 60065:2014	-	N/A
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14:2013 including IEC 60384-14:2013/AMD1:2016	-	N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	-	N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy, unless	-	N/A
	a toy is shaped like the appliance	-	N/A
22.45	When air is used as reinforced insulation, clearances not reduced below the values in 29.1.3 due to deformation of the enclosure, applying a force of 30 N to accessible surface	-	N.V
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in Table R.1	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict

	These requirements are not applicable to software used for functional purpose or compliance with clause 11	-	N/A
	Compliance checked by evaluating the software in accordance with the relevant requirements of normative Annex R	-	N/A
	If the software is modified, the evaluation and relevant tests are repeated if the modification influences the results of the test involving protective electronic circuits	-	N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use	Not connected to water mains	N/A
	No leakage from any part, including any inlet water hose	-	N/A
22.48	Appliances connected to the water mains constructed to prevent back-siphonage of non- potable water	-	N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	No remote operation	N/A
	the appliance switches off automatically or can operate continuously without hazard	-	N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	-	N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode	-	N/A
	There is a visual indication showing that the appliance is adjusted for remote operation	-	N/A
	These requirements are not necessary on appliances that can operate as follows, without giving rise to a hazard:	-	N/A
	- continuously, or	-	N/A
	- automatically, or - remotely	-	N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold	-	N/A
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts	-	N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	-	N/A
	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	-	N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are being distinguished from other manual devices by means of shape, size, surface texture, or position.	-	N/A
	The requirement concerning position does not preclude use of a push on push off switch	-	N/A
	An indication when the device has been operated is given by:	-	N/A
	- tactile feedback from the actuator or from the appliance, or	-	N/A
	- reduction in heat output, or	-	N/A
	- audible and visible feedback	-	N/A
22.56	Detachable power supply part provided with the part of class III construction	-	N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in normative Annex T	-	N/A
	This requirement does not apply to glass, ceramics or similar materials	-	N/A
22.58	Appliances connected to the supply mains by an appliance	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict

	Inlet are provided with a cord set or a connector for attachment to a suitable flexible cord, except from		N/A
	- appliances complying with IEC 60320-3, or	-	N/A
	- single phase appliances having a rated current exceeding 16 A, connected to mains by an appliance inlet complying with IEC 60309-2, or	-	N/A
	- multi-phase appliances connected to mains by an appliance inlet complying with IEC 60309-2	-	N/A
22.59	Protective extra-low voltage circuits separated by at least supplementary insulation from circuits operating at safety extra-low voltage	-	N/A
22.60	Functional earthing terminals and functional earthing contacts not connected to the neutral terminal	-	N/A
22.61	Appliance outlets complying with the standard sheets in IEC 60320-3 accessible to the user and socket outlets accessible to the user are single phase, if	-	N/A
	- they are incorporated in appliances connected to the supply mains, and	-	N/A
	- they operate at rated voltage	-	N/A
	Current rating not exceeding 1 6 A (A)	-	N/A
	Appliance outlets accessible to the user, other than those supplying accesories, and socket-outlets accessible to the user are protected by one of the following:	-	N/A
	- a circuit breaker for equipment complying with IEC 60934, or	-	N/A
	- a non-user replaceable fuse-link	-	N/A
	Current rating of protective device not exceeding current rating of the appliance outlet or socket- outlet (A)....	-	N/A
	Protective device placed behind a non-detachable cover	-	N/A
	Current rating of appliance outlets and socket- outlets marked with the outlet load in watts, obtained from the market outlet load divided by the rated voltage (A)	-	N/A
22.62	Remote communication through public networks does not impair compliance with this standard	-	N/A
	The requirement does only apply to remote communication where the download of software or the transmission of data:	-	N/A
	a) includes measures according to normative Annex R necessary for compliance with 22.46, or	-	N/A
	Includes means necessary for compliance with Clauses 8 to 32	-	N/A
	b) only affects the software part that is not covered by a), but where compliance might be impaired due to improper separation of partitioning from the software or data in a)	-	N/A
	The requirement does not apply to appliances:	-	N/A
	- where all measures to comply with this standards are independent of software,	-	N/A
	- using remote communication through public networks for the send-only transmission of data, or	-	N/A
	- that only provide event driven messages or push remote monitoring	-	N/A
	Compliance checked by inspection of the product and the technical documentation, and by the requirements and tests in normative Annex U	-	N/A
22.101	Irons shall be provided with a **stand**	Heel of the iron	P
22.102	**Steam irons** shall be constructed so that there is no spillage of water or sudden jets of steam or hot water likely to expose	No spillage	P

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Clause	Requirement -Test	Result - Remark	Verdict

	the user to a hazard when the iron is used in accordance with the instructions.		
	Compliance is checked by inspection during the test of Clause 11 and by removing the filling cap at the end of the test.	-	P
22.103	The boiler of **steam irons** with a separate boiler shall incorporate at least one **non-self-resetting thermal cut-out** that is only accessible by means of a tool.	No separate boiler	N/A
22.104	Pressure-limiting **protective devices** that operate during the tests of 19.4 and 22.7 shall have an inlet aperture at least 5 mm in diameter or 20 mm² in area and a width of at least 4 mm.	-	N/A
	The area of the aperture at the outlet shall not be less than that of the aperture at the inlet.	-	N/A
22.105	The connection contacts of **cordless irons** shall be constructed so that any electrical or mechanical failure occurring in normal use will not give rise to a hazard.	-	N/A
	The two live pins of the iron are connected together and an external resistive load is connected in series with the supply.	-	N/A
	The external load is such that the current is 1.1 times **rated current** when the iron is supplied at **rated voltage.**	-	N/A
	The iron is placed on its **stand** and withdrawn 50,000 times, at a rate of 10 times per minute. The test is continued for a further 50,000 times without current flowing.	-	N/A
	After the test, the iron shall be fit for further use and compliance with 8.1, 16.3, 27.5 and Clause 29 shall not be impaired.	-	N/A
22.106	**Cordless irons** that can be directly connected to the supply mains during ironing shall be constructed so that the iron is adequately retained to the **stand** during ironing with the **stand** connected.	-	N/A
	The force necessary to withdraw the **stand** from the iron shall be at least 30 N.	-	N/A
22.107	**Pressurized steam irons** incorporating more than one boiler connected together shall incorporate a pressure-limiting **protective device** in each boiler.	-	N/A

23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges	Smooth and free from sharp edges	P
	Wires protected against contact with burrs, cooling fins, etc.	-	P
	Wire holes in metal well-rounded or provided with bushings	-	P
	Wiring effectively prevented from coming into contact with moving parts	-	P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	-	N/A
	Beads inside flexible metal conduits contained within an insulating sleeve	-	N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	-	P
	Flexible metallic tubes not causing damage to insulation of conductors	-	N/A
	Open-coil springs not used	-	P
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	-	N/A
	No damage after 10 000 flexings for conductors flexed during	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	normal use, or		
	100 flexings for conductors flexed during user maintenance	-	N/A
	Electric strength test of 16.3, 1 000 V between live parts and accessible metal parts	-	N/A
	Not more than 10 % of the strands of any conductor broken, and	-	N/A
	not more than 30 % for wiring supplying circuits that consume no more than 15 W	-	N/A
23.4	Bare internal wiring sufficiently rigid and fixed	-	N/A
23.5	No use of a single layer of internal wiring insulation to provide reinforced insulation	-	N/A
	For class II construction, the sheath of a cord complying with IEC 60227 or IEC 60245 or IEC 62821 may provide supplementary insulation	-	N/A
	Insulation of single layer internal wiring subjected to the supply mains voltage withstands the electrical stress likely to occur in normal use, if:	-	N/A
	- insulation of single layer internal wiring electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245 or IEC 62821, or	-	N/A
	- no breakdown when a voltage of 2 000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	-	N/A
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	-	N/A
	be such that it can only be removed by breaking or cutting	-	N/A
23.7	The colour combination green/yellow only used for earthing conductors	-	N/A
23.8	Aluminium wires not used for internal wiring	Not used	P
	The requirement does not apply to windings	-	N/A
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	-	N/A
	the contact pressure is provided by spring terminals	-	N/A
	The requirement does not apply to the soldered tip of a stranded conductor	-	N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52), checked as specified	-	N/A
24	**COMPONENTS**		
24.1	Components comply with safety requirements in relevant IEC standards	-	P
	List of components	-	-
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	-	N/A
	Relays tested as part of the appliance, or	-	N/A
	Alternatively, acc. to IEC 60730-1:2013 including IEC 60730-1:2013/AMD1:2015, and meeting the additional requirements in IEC 60335-1	-	N/A
	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	-	N/A
	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	30.2 of this standard applies to parts of non- metallic material in components including parts of non-metallic material supporting current-carrying connections	-	N/A
	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2	-	N/A
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided that the specified conditions are met	-	N/A
	If these conditions are not satisfied, the component is tested as part of the appliance	-	N/A
	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	-	N/A
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	-	N/A
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9	-	N/A
	Components not tested and found to comply with relevant IEC standard and components not marked or not used according to their marking, tested under the conditions occurring in the appliance	-	N/A
	Lampholders and starterholders not being previously tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally complying with the gauging and interchangeability requirements of the relevant IEC standard under the conditions occurring in the appliance	-	N/A
	No additional tests specified for nationally standardized plugs such as those detailed in IEC TR 60083 or connectors or plug connectors complying with the standard sheets of IEC 60320-3 or connectors complying with the standard sheets of IEC 60309-2	-	N/A
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing comply with IEC 60384-14:2013 including IEC 60384-14:2013/AMD1:2016	-	N/A
	If the capacitors have to be tested, they are tested according to normative Annex F	-	N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2- 16:2009 including IEC 61558-2-16:2009/AMD1:2013	-	N/A
24.1.3	Switches comply with IEC 61058-1:2016, number of cycles of operation being at least 10 000, unless	-	N/A
	the appliance meets the requirements of this standard when they are rendered inoperative, then the number of cycles need not to be declared for 7.4 of IEC 61058-1:2016	-	N/A
	If they have to be tested, they are tested according to normative Annex H	-	N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test	-	N/A
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
A	Switches that control steam or water emission are subjected to 50,000 cycles of operation.	-	N/A
24.1.4	Automatic controls comply with IEC 60730-1:2013 including IEC 60730- 1:2013/AMD1:2015 together with the relevant part 2. The number of cycles of operation being at least:	-	-
	- thermostats: 10000	-	N/A
	- temperature limiters: 1000	-	N/A
	- self-resetting thermal cut-outs: 300	-	P
	- voltage maintained non-self-resetting thermal cut-outs: 1000	-	N/A
	- other non-self-resetting thermal cut-outs: 30	-	N/A
	- timers: 3000	-	N/A
	energy regulators: 10000	-	N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited or rendered inoperative	-	N/A
	If automatic controls have to be tested, additionally tested in accordance with 11.3.5 to 11.3.8 and Clause 17 of IEC 60730-1:2013 including IEC 60730-1:2013/AMD1:2015 as type 1 controls, tests of Clauses 12, 13 and 14 not carried out before the test of Clause 17	-	N/A
	Thermal motor protectors are tested in combination with their motor under the conditions specified in normative Annex D	-	N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, degree of protection declared for 6.5.2 of IEC 60730-2-8:201 8 is IPX7	-	N/A
	Thermal cut-outs of the capillary type comply with the requirements for type 2 K controls in IEC 60730-2-9:2015 including 60730-2- 9:2015/AMD1:2018	-	N/A
24.1.5	Appliance couplers comply with IEC 60320-1	-	N/A
	However, for appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3	-	N/A
24.1.6	Small lampholders similar to E10 lampholders comply with IEC 60238, the requirements for E10 lampholders being applicable	-	N/A
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151	-	N/A
24.1.8	Thermal links comply with IEC 60691	No thermal link	N/A
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19	-	N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	-	N/A
	They are also tested in accordance with Clause 17 of IEC 60730-1:2013 including IEC 60730- 1:2013/AMD:2015, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance ...	-	N/A
24.1.10	Lamps and lamp systems that have not been previously tested and found to comply with the exempt group classification of IEC 62471:2006 GLS regarding E S and E UVA :	-	N/A
	- tested as part of the appliance	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	- comply with the requirements of Clause 32 under the conditions occurring in the appliance	-	N/A
	Unless otherwise specified, the following components are considered to comply with the specified GLS classification:	-	N/A
	- visible light indicators	-	N/A
	- infrared sources used for signalling or communication	-	N/A
	seven-segment indicators	-	N/A
	- liquid crystal displays	-	N/A
	- organic LED displays (OLED)	-	N/A
	- plasma displays	-	N/A
24.1.11	Cord sets required to be provided with the appliance comply with IEC 60799	-	N/A
	Cord sets with cords complying to IEC 62821-3 allowed	-	N/A
24.2	Appliances not fitted with:	-	-
	- switches, automatic controls, power supplies and the like in flexible cords	-	N/A
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	-	N/A
	- thermal cut-outs that can be reset by soldering, unless	-	N/A
	the solder has a melting point of at least 230 LC	-	N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions	-	N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC TR 60083 or IEC 60906-1 or with connectors, appliance inlets, plug connectors and appliance outlets complying with the standard sheets of IEC 60320-3	-	N/A
A	This requirement is not applicable to the connection between the iron and the **stand** of **cordless irons.**	-	N/A
24.5	Capacitors in auxiliary windings of motors marked with their voltage rating and their rated capacitance, and used accordingly	-	N/A
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times its voltage rating, when the appliance is supplied at 1,1 times rated voltage under minimum load	-	N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V	-	N/A
	In addition, the motors comply with the requirements of normative Annex I	-	N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	-	N/A
	They are supplied with the appliance	-	N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	-	N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure	-	N/A
	One or more of the following conditions are to be met:	-	N/A
	- the capacitors are of class S2 or S3 according to IEC 60252-1:2010 including IEC 60252- 1:2010/AMD1:2013	-	N/A
	- the capacitors are housed within a metallic or ceramic enclosure	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	-	N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of normative Annex E	-	N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	-	N/A
	For capacitors complying with IEC 60252-1:2010 including IEC 60252-1:2010/AMD1:2013, damp heat test for 5.14 of that standard with severity parameters as specified	-	N/A
24.101	Any component incorporated in an iron for compliance with 19.4 shall not be self-resetting and shall only be accessible by means of a **tool.**	-	N/A
25	**SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS**		
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		
	- supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance	Supply cord with plug provided	P
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	-	N/A
	- pins for insertion into socket-outlets	Pins on plug	P
25.2	Appliance not provided with more than one means of connection to the supply mains	One only	N/A
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1 250 V for 1 min between each means of connection causes no breakdown	-	N/A
25.3	Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:	Portable appliance	N/A
	- cord anchorage and a set of terminals allowing the connection of a flexible cord	-	N/A
	- a fitted supply cord	-	N/A
	- a set of supply leads accommodated in a suitable compartment	-	N/A
	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	-	N/A
	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	-	N/A
	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support	-	N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to Table 10 (mm)	-	N/A
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	-	N/A
25.5	Method for assembling the supply cord to the appliance:	Supply cord with plug provided	-
	- type X attachment	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	- type Y attachment	-	P
	- type Z attachment, if allowed in relevant part 2	-	N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	-	N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment	-	N/A
A	**Type Z attachment** is allowed for travel irons and **cordless irons.**	-	N/A
	Type Z attachment is not allowed for **cordless irons** that can also be directly connected to the supply mains during ironing.	-	N/A
25.6	Plugs fitted with only one flexible cord.	One cord only	P
25.7	Supply cords, other than for class III appliances, being one of the following types:	-	N/A
	- rubber sheathed (at least 60245 IEC 53), unless	-	N/A
	The appliance is intended to be used outdoors or is liable to being exposed to ultraviolet radiation	-	N/A
	- polychloroprene sheathed (at least 60245 IEC 57),	-	N/A
	supply cords being allowed to be connected to appliances intended for use in low temperature	-	N/A
	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11	-	N/A
	– light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg	-	N/A
	– ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	-	N/A
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords	-	N/A
	– heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	-	N/A
	– heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	-	N/A
	- halogen-free, low smoke, thermoplastic insulated and sheathed	-	N/A
	– light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable	-	N/A
	– Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable	-	N/A
	Supply cords for class III appliances adequately insulated	-	N/A
	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	-	N/A
A	Braided cords may be used.	-	P
25.8	Nominal cross-sectional area of supply cords not less than Table 11, rated current (A), cross- sectional area (mm²)	See appended table	F(e)
25.9	Supply cords not in contact with sharp points or edges	Free from sharp edges	P
25.10	Supply cord of class I appliances have a green/yellow core for earthing	Green and yellow were used	P
	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue	Single phase	N/A
	Where additional neutral conductors are provided in the supply cord	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	- other colours may be used for these additional neutral conductors;	-	N/A
	- all of the neutral conductors and line conductors are identified by marking using the alphanumeric notation specified in IEC 60445	-	N/A
	- the supply cord is fitted to the appliance	-	N/A
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	-	N/A
	the contact pressure is provided by spring terminals	-	N/A
	The requirement does not apply to the soldered tip of a stranded conductor	-	N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	-	P
25.13	Inlet openings so constructed as to prevent damage to the supply cord	-	N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing, unless	Sample was totally burned during the abnormal test of clause 19	NV
	appliance is fitted with automatic cord reels complying with the requirement and test of 22.16	No cord reels	N/A
	Flexing test, as described:	-	-
	- applied load (2kg)	-	NV
M	- number of flexings is 20,000 for type Z, 10000 for other attachments	-	NV
	The test is not carried out on **cordless irons** unless the iron can also be directly connected to the supply mains during ironing.	Not cordless iron	N/A
	The test does not result in:	-	-
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	-	NV
	- breakage of more than 10 % of the strands of any conductor	-	NV
	- separation of the conductor from its terminal	-	NV
	- loosening of any cord guard	-	NV
	- damage to the cord or the cord guard	-	NV
	- broken strands piercing the insulation and becoming accessible	-	NV
	For **steam irons** with a separate water reservoir or boiler, the test is made on the steam hose and the **interconnection cord** together	No separate water reservoir	N/A
	The test shall not result in:	-	-
	- loosening of the hose;	-	NV
	- damage to the hose to such an extent that compliance with this standard is impaired;	-	NV
A	- Leakage from the hose.	-	NV
	Appliances are also subjected to the following test while mounted on an apparatus similar to that of Figure 8.	-	NV
	This test is carried out on a separate appliance.	-	NV
	The **supply cord** is suspended vertically from the appliance and loaded so that a force of 10 N is applied.	-	NV
	The number of flexings is 2000, the rate of flexing being 6 per min	-	NV

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Clause	Requirement -Test	Result - Remark	Verdict
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	Sample was totally burned during the abnormal test of clause 19	NV
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	-	NV
	Pull and torque test of supply cord:	-	-
	- Fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)	-	NV
	- other appliances: values shown in Table 12 mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	-	NV
	Cord not damaged and maxes. 2 mm displacement of the cord	-	NV
25.16	Cord anchorages for type X attachments constructed and located so that:	Type Y attachment	N/A
	- replacement of the cord is easily possible	-	N/A
	- it is clear how the relief from strain and the prevention of twisting are obtained	-	N/A
	- they are suitable for different types of supply cord	-	N/A
	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	-	N/A
	they are separated from accessible metal parts by supplementary insulation	-	N/A
	- the cord is not clamped by a metal screw which bears directly on the cord	-	N/A
	- at least one part of the cord anchorage securely fixed to the appliance, unless	-	N/A
	it is part of a specially prepared cord	-	N/A
	Not applicable if the cord anchorage comprises one or more clamping members subjected to pressure by means of nuts engaging with securely attached studs, even if removal possible, or if	-	N/A
	one clamping member is fixed to the appliance or obviously shaped insulating material is used as the surface of the appliance	-	N/A
	- screws which have to be operated when replacing the cord do not fix any other component, unless	-	N/A
	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	-	N/A
	- if labyrinths can be bypassed, the test of 25.15 is nevertheless withstood	-	N/A
	- for class 0, 0I and I appliances, they are of insulating material or are provided with an insulating lining, unless	-	N/A
	failure of the insulation of the cord does not make accessible metal parts live	-	N/A
	- for class II appliances, they are of insulating material, or	-	N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation	-	N/A
	Compliance checked by inspection and by the test of 25.15 under the following conditions:	-	N/A
	- carried out with lightest permissible type of cord of the smallest cross-sectional area specified in Table 13, then with next heavier type cord having the largest cross-sectional area specified, however	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	If the appliance is fitted with a specially prepared cord, test carried out with this cord	-	N/A
	- conductors placed in the terminals and any terminal screws tightened to prevent the conductors from easily changing their position	-	N/A
	- clamping screws of the cord anchorage tightened with two-thirds of the torque specified in 28.1	-	N/A
	- screws of insulating material bearing directly on the cord fastened with two-thirds of the torque specified in column I of Table 14, the length of the slot in the screw head being taken as the nominal diameter of the screw	-	N/A
	After the test, the conductors have not moved by more than 1 mm in the terminals	-	N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Type Y attachment Cord anchorage provided	P
25.18	Cord anchorages only accessible with the aid of a tool, or	-	P
	constructed so that the cord can only be fitted with the aid of a tool	-	P
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	Type Y attachment	N/A
	Tying the cord into a knot or tying the cord with string not used	-	N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	Type Y attachment	P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed:	Type Y attachment	N/A
	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	-	N/A
	- so there is no risk of damage to the conductors or their insulation when fitting the cover	-	N/A
	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts	-	N/A
	2 N test to the conductor for portable appliances; no contact with accessible metal parts	-	N/A
25.22	Appliance inlets:	No appliance inlets	N/A
	- live parts not accessible during insertion or removal	-	N/A
	Requirement not applicable to appliance inlets complying with IEC 60320-1	-	N/A
	- connector can be inserted without difficulty	-	N/A
	- the appliance is not supported by the connector	-	N/A
	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	-	N/A
	the flexible cord of the cord set is unlikely to touch such metal parts	-	N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	No interconnection cords	N/A
	- the cross-sectional area of the conductors is determined based on the maximum current during clause 10, and	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	if the current is greater than the rated current, but not exceeding the rated current by more than the current deviation in Table 2, the cross-sectional area does not need to be greater than the one of the conductors in the supply cord	-	N/A
	- the thickness of the insulation may be reduced	-	N/A
	- for class I or class II appliance with class III construction, the cross-sectional areas of the conductors need not comply with 25.8 if specified conditions are met	-	N/A
	If necessary, electric strength test of 16.3	-	N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected	-	N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet	The pins not comply with Saudi requirements(SASO 2203)	Note
	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC TR 60083	The pins not comply with Saudi requirements(SASO 2203	Note
26	**TERMINALS FOR EXTERNAL CONDUCTORS**		
26.1	Appliances provided with terminals or equally effective devices, such as male tabs of flat quick-connect terminations (IEC 61210), screw type terminals (IEC 60998-2-1), screwless terminals (IEC 60998-2-2) and clamping units (IEC 60999-1:1999), for connection of external conductors	-	P
	Terminals only accessible after removal of a non-detachable cover, except	-	P
	for class III appliances that do not contain live parts	-	N/A
	Earthing terminals and functional earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	-	N/A
26.2	Appliances with type X attachment and appliances for the connection of cables of fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	Type Y attachment	N/A
	the connections are soldered	-	N/A
	Screws and nuts not used to fix any other component, except	-	N/A
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	-	N/A
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	-	N/A
	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	-	N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring constructed so that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor	Type Y attachment	N/A
	Terminals fixed so that when the clamping means is tightened or loosened:	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	- the terminal does not become loose	-	N/A
	- internal wiring is not subjected to stress	-	N/A
	- neither clearances nor creepage distances are reduced below the values in clause 29	-	N/A
	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1:1999, the torque applied being equal to two-thirds of the torque specified (Nm):	-	N/A
	No deep or sharp indentations of the conductors	-	N/A
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar,	Type Y attachment	N/A
	Reshaping of the conductor before its introduction into the terminal or twisting a stranded conductor to consolidate the end is not considered special preparation	-	N/A
	Terminals constructed or placed so that conductors prevented from slipping out when clamping screws or nuts are tightened	-	N/A
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	Type Y attachment	N/A
	Stranded conductor test, 8 mm insulation removed	-	N/A
	No contact between live parts and accessible metal parts and,	-	N/A
	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	-	N/A
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to Table 13; rated current (A); nominal cross-sectional area (mm²) .....:	Type Y attachment	N/A
	If a specially prepared cord is used, terminals need only be suitable for that cord	-	N/A
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure	Type Y attachment	N/A
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other	-	N/A
26.9	Terminals of the pillar type constructed and located as specified	-	N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	-	N/A
	ends of conductors fitted with means suitable for screw terminals	-	N/A
	Pull test of 5 N to the connection	-	N/A
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	Type Y attachment crimped	P
	For class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	-	N/A
	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
27	**PROVISION FOR EARTHING**		
27.1	Accessible metal parts, including metal parts behind a decorative cover that does not withstand the test of 21.1, of class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	Class 0I appliance	NV
	Earthing terminals and earthing contacts not connected to the neutral terminal	No terminals	N/A
	Class 0, II and III appliances have no provision for protective earthing	Class 0I	N/A
	Safety extra-low voltage circuits not earthed, unless	-	N/A
	protective extra-low voltage circuits	-	N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening	-	N/A
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2,5 mm2 to 6 mm2, and	-	N/A
	- do not provide earthing continuity between different parts of the appliance, and	-	N/A
	- conductors cannot be loosened without the aid of a tool	-	N/A
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part	-	N/A
	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	-	N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal	-	N/A
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	-	N/A
	If of steel, these parts provided with an electroplated coating, thickness of at least 5 mm	-	N/A
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	-	N/A
	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion	-	N/A
	In case of doubt, thickness of coating measured as described in ISO 2178 or in ISO 1463	-	N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts	-	NV
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance(V) .....:	-	NV
	Resistance not exceeding 0,1 W at the specified low-resistance test (W):	-	NV
	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances	-	NV
	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	-	NV

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Clause	Requirement -Test	Result - Remark	Verdict
28	**SCREWS AND CONNECTIONS**		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	-	P
	Screws not of soft metal liable to creep, such as zinc or aluminium	-	P
	Diameter of screws of insulating material min. 3 mm	-	P
	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	-	P
	Screws used for electrical connections or connections providing earthing continuity screwed into metal	-	P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	-	P
	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation	-	N/A
	For screws and nuts, torque-test as specified in Table 14 :	-	P
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless	Class II appliance	N/A
	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	-	N/A
	This requirement does not apply to electrical connections in circuits of appliances for which:	-	N/A
	- 30.2.2 is applicable and that carry a current not exceeding 0,5 A	-	N/A
	- 30.2.3 is applicable and that carry a current not exceeding 0,2 A	-	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	-	N/A
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	-	N/A
	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	-	N/A
	Thread-cutting, thread rolling and space threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection:	-	N/A
	- in normal use,	-	N/A
	- during user maintenance,	-	N/A
	- when replacing a supply cord having a type X attachment, or	-	N/A
	- during installation	-	N/A
	At least two screws being used for each connection providing earthing continuity, unless	-	N/A
	the screw forms a thread having a length of at least half the diameter of the screw	-	N/A
28.4	Screws and nuts that make mechanical connection secured against loosening by means such as spring washer, lock washers and crown type locks, if they also make electrical connections or connections providing earthing continuity	-	P
	For screw connections not subjected to torsion, sealing compound that softens on heating allowed to be used to provide security against loosening	-	P
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	Class II appliance	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
	if an alternative earthing circuit is provided	-	N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	-	N/A
	If connections subjected to torsion, a rivet having a non-circular shank or an appropriate notch allowed to be used to secure against loosening	-	N/A
29	**CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION**		
	Clearances, creepage distances and solid insulation withstand electrical stress	-	P
	For coatings used on printed circuits boards to protect the microenvironment (type 1) or to provide basic insulation (type 2), normative Annex J applies	-	N/A
	The microenvironment is pollution degree 1 under type 1 protection	-	N/A
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3:2016	-	N/A
	These values apply to functional, basic, supplementary and reinforced insulation	Functional insulation applied	P
29.1	Clearances not less than the values specified in Table 16, taking into account the rated impulse voltage for the overvoltage categories of Table 15, unless.....	See appended table	P
	for basic insulation and functional insulation, they comply with the impulse voltage test of clause 14	-	P
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 are increased according to the altitude correction factor in Table A.2 of IEC 60664-1:2007	-	N/A
	However, the impulse voltage test is not applicable if the construction is such that the distances could be affected by any of the following:	-	-
	- distortion	-	N/A
	- movement of parts	-	N/A
	- assembly of parts	-	N/A
	- wear of basic insulation	-	N/A
	- wear of functional insulation	-	N/A
	In this case, the clearances for rated impulse voltages of 1 500 V and above specified in Table 16 are increased by 0,5 mm	-	N/A
	Impulse voltage test is not applicable:	-	-
	- when the microenvironment is pollution degree 3, or	-	N/A
	- for basic insulation of class 0 and class 0I appliances, or	-	N/A
	- to appliances intended for use at altitudes exceeding 2 000 m	-	N/A
	Appliances are in overvoltage category II	-	N/A
	A force of 2 N is applied to bare conductors, other than heating elements	-	N/A
	A force of 30 N is applied to accessible surfaces	-	N/A
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	-	N/A
	The values of Table 16 or the impulse voltage test of clause 14 are applicable	-	N/A
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm, if the microenvironment is pollution degree 1	-	N/A
	Lacquered conductors of windings considered to be bare conductors	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
29.1.2	Clearances of supplementary insulation not less than those spec. for basic insulation in Table 16 .....:	-	N/A
29.1.3	Clearances of reinforced insulation not less than those specified in Table 16, using the next higher step for rated impulse voltage	-	N/A
	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation	-	N/A
29.1.4	Clearances for functional insulation are the largest values determined from:	See appended table	P
	- Table 16 based on the rated impulse voltage .:	-	P
	- Table F.7a in IEC 60664-1:2007, frequency not exceeding 30 kHz	-	N/A
	- clause 4 of IEC 60664-4:2005, frequency exceeding 30 kHz	-	N/A
	If values of Table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	-	N/A
	the microenvironment is pollution degree 3, or	-	N/A
	the distances can be affected by wear, distortion, movement of the parts or during assembly	-	N/A
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	-	N/A
	Lacquered conductors of windings considered to be bare conductors	-	N/A
	However, clearances at crossover points are not measured	-	N/A
	Clearance between surfaces of PTC heating elements may be reduced to 1 mm	-	N/A
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from: Working voltage >V	-	N/A
	- Table 16 based on the rated impulse voltage .:	-	N/A
	- Table F.7a in IEC 60664-1:2007, frequency not exceeding 30 kHz	-	N/A
	- clause 4 of IEC 60664-4:2005, frequency exceeding 30 kHz	-	N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1:2007 or Clause 4 of IEC 60664-4:2005, the clearances of supplementary insulation are not less than those specified for basic insulation	-	N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1:2007, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160 % of the withstand voltage required for basic insulation	-	N/A
	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4:2005, the clearances of reinforced insulation are twice the value required for basic insulation	-	N/A
	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in Table 16, but using the next lower step for rated impulse voltage	-	N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in Table 15	-	N/A

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Clause	Requirement -Test	Result - Remark	Verdict
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	-	P
	Pollution degree 2 applies, unless	-	N/A
	- precautions taken to protect the insulation; pollution degree 1	-	N/A
	- insulation subjected to conductive pollution; pollution degree 3	-	N/A
	A force of 2 N is applied to bare conductors, other than heating elements	-	N/A
	A force of 30 N is applied to accessible surfaces	-	N/A
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system	-	N/A
29.2.1	Creepage distances of basic insulation not less than specified in Table 17	See appended table	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from Table 2 of IEC 60664-4:2005, these values being used if exceeding the values in Table 17.	-	N/A
	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in Table 16, if the clearance has been checked according to the test of clause 14	-	N/A
	Creepage distances of supplementary insulation at least those specified for basic insulation in Table 17, excluding NOTE 1 and NOTE 2, or	-	N/A
	Table 2 of IEC 60664-4:2005, as applicable	-	N/A
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in Table 17, excluding NOTE 1 and NOTE 2, or	-	N/A
	Table 2 of IEC 60664-4:2005, as applicable	-	N/A
29.2.4	Creepage distances of functional insulation not less than specified in Table 18.....	See appended table	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from Table 2 of IEC 60664-4:2005, these values being used if exceeding the values in Table 18.	-	N/A
	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	-	N/A
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	Reinforced insulation	P
	Compliance checked:	-	-
	- by measurement, in accordance with 29.3.1, or	Applied 29.3.1	P
	for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and	-	N/A
	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	-	N/A
	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or	-	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	- as specified in subclause 6.3 of IEC 60664-4:2005 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz	-	N/A
29.3.1	Supplementary insulation, thickness at least 1 mm	-	N/A
	Reinforced insulation; thickness of at least 2 mm	2.17	P
29.3.2	Each layer of material withstands the electric strength test of 16.3 for supplementary insulation	-	N/A
	Supplementary insulation consists of at least 2 layers	-	N/A
	Reinforced insulation consists of at least 3 layers	-	N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	-	N/A
	the electric strength test of 16.3	-	N/A
	If the temperature rise during the tests of clause 19 does not exceed the value specified in Table 3, the test of IEC 60068-2-2 is not carried out	-	N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in Table 19 :	-	N/A
30	**RESISTANCE TO HEAT AND FIRE**		
30.1	External parts of non-metallic material,	Sample was totally burned during the abnormal test of clause 19	NV
	parts supporting live parts, and	-	NV
	parts of thermoplastic material providing supplementary or reinforced insulation	-	NV
	sufficiently resistant to heat	-	NV
	This requirement does not apply to:	-	NV
	- the insulation or sheath of flexible cords or internal wiring	-	NV
	- those parts of coil formers that do not support or retain terminals in position	-	NV
	- parts of ceramic material	-	NV
	Ball-pressure test according to IEC 60695-10-2	-	NV
	The test is carried out at a temperature of 40 °C ± 2 °C plus the maximum temperature rise determined during the test of Clause 11, but it shall be at least:	-	-
	– 75 °C ± 2 °C, for external parts;	-	NV
	– 125 °C ± 2 °C, for parts supporting ***live parts****.*	-	NV
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C):	-	NV
A	For irons with **thermostats,** the temperature rises occurring during Clause 19 are not taken into consideration.	-	NV
30.2	Parts of non-metallic material resistant to ignition and spread of fire	-	NV
	This requirement does not apply to:	-	-
	- parts of a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or	-	NV
	- decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	-	NV
	Compliance checked by the test of 30.2.1, and in addition:	-	-
M	- For electric irons, 30.2.2 is applicable.	-	NV
	For appliances for remote operation, 30.2.3 applies	-	NV

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Clause	Requirement - Test	Result - Remark	Verdict
	For parts of appliances connected to the supply mains during charging, 30.2.3 applies	-	NV
	For base material of printed circuit boards, 30.2.4 applies	-	NV
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11:2014 at 550 °C	-	N/A
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or	-	N/A
	the material is classified at least HB40 according to IEC 60695-11-10	-	N/A
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	-	N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, such as switch contacts and the like in other components, and	Sample was totally burned during the abnormal test of clause 19	NV
	parts of non-metallic material within a distance of 3 mm of such connections,	-	NV
	subjected to the glow-wire test of IEC 60695-2-11:2014 with appropriate severity level:	-	-
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation Note: Appliance supplied at rated voltage (V):	-	NV
	- 650 °C, for other connections	-	NV
	Glow-wire applied to an interposed shielding material, if relevant	-	NV
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least:	-	NV
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation Note: Appliance supplied at rated voltage (V)...:	-	NV
	- 650 °C, for other connections	-	NV
	The glow-wire test is also not carried out on small parts. These parts	-	NV
	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	-	NV
	- comply with the needle-flame test of normative Annex E, or	-	NV
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	-	NV
	Glow-wire test not applicable to conditions as specified :	-	-
M	The exclusion of **hand-held appliances** is not applicable.	-	NV
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	Appliance operated while attended	N/A
	The tests are not applicable to conditions as specified :	-	N/A
30.2.3.1	Parts of non-metallic material supporting connections, such as switch contacts and the like in other components, carrying a current exceeding 0,2 A during normal operation, Note: Appliance supplied at rated voltage (V): and	-	N/A
	parts of non-metallic material, other than small parts, within a distance of 3 mm	-	N/A
	subjected to the glow-wire test of IEC 60695-2-11:2014 with a test severity of 850 °C	-	N/A
	Glow-wire applied to an interposed shielding material, if relevant	-	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C	-	N/A
30.2.3.2	Parts of non-metallic material supporting connections, such as switch contacts and the like in other components, and	-	N/A
	parts of non-metallic material within a distance of 3 mm,	-	N/A
	subjected to the glow-wire test of IEC 60695-2-11:2014 with appropriate severity level:	-	N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation Note: Appliance supplied at rated voltage (V)...:	-	N/A
	- 650 °C, for other connections	-	N/A
	Glow-wire applied to an interposed shielding material, if relevant	-	N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:	-	-
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	-	N/A
	775 °C, for connections carrying a current exceeding 0,2 A during normal operation Note: Appliance supplied at rated voltage (V)...:	-	N/A
	675 °C, for other connections	-	N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	-	N/A
	750 °C, for connections carrying a current exceeding 0,2 A during normal operation Note: Appliance supplied at rated voltage (V)...:	-	N/A
	650 °C, for other connections	-	N/A
	The glow-wire test is also not carried out on small parts. These parts are to:	-	N/A
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	-	N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	-	N/A
	- comply with the needle-flame test of normative Annex E, or	-	N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	-	N/A
	The consequential needle-flame test of Annex E applied to non-metallic parts that encroach within the vertical cylinder placed above the centre of the connection zone and on top of the non-metallic parts supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections if these parts are those:	-	N/A
	- parts that withstood the glow-wire test of IEC 60695-2-11:2014 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or	-	N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	-	N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	-	N/A
	- small parts for which the needle-flame test of normative Annex E was applied, or	-	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	- small parts for which a material classification of V-0 or V-1 was applied	-	N/A
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:	-	N/A
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	-	N/A
	parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	-	N/A
	- parts shielded by a flame barrier that meets the needle-flame test of normative Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	-	N/A
	No battery in the area of the vertical cylinder used for the consequential needle flame test, unless	-	N/A
	battery shielded by a barrier that meets the needle flame test of normative Annex E or that compnses material classified as V-0 or V-1 according to IEC 60695-11-10	-	N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of normative Annex E	-	NV
	Test not applicable to conditions as specified...:	-	NV
31	**RESISTANCE TO RUSTING**		
	Relevant ferrous parts adequately protected against rusting	-	P
	Tests specified in part 2 when necessary	-	P
32	**RADIATION, TOXICITY AND SIMILAR HAZARDS**		
32.1	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	-	P
	Compliance is checked by the limits or tests specified in part 2, if relevant	-	P
32.2	Appliance do not present an optical radiation hazard due to their operation in normal use	-	N/A
	Requirement does not apply to lamps and lamp systems that comply with 24.1.10	-	N/A
	Compliance checked as follows	-	-
	appliance supplied at rated voltage (V) Note: Generally 50 Hz is the most unfavourable frequency.	-	N/A
	- Radiation assessment at or recalculated to 200 mm distance or at fixed use distance, measurement as described in IEC 62471:2006	-	N/A
	- For lamps or lamp systems intended to illuminate objects, tested at the GLS assessment distance producing 500 lux as described in IEC 62471:2006	-	N/A
	- Appliance complies with exempt group classification requirements of IEC 62471:2006 regarding actinic ultraviolet hazard (E_S) and near-UV hazard (E_{UVA})	-	N/A

10	Power Input			
Input deviation of at:	Rated (W)	Measured (W)	Required	Verdict
230 V	1200W	1153.4	+5%, -10%	P
		1149.1		
		1160.4		
		1154.8		
AVE:		1154.425		
dP% = (Ave Measured – Rated) / Rated × 100		-3.80%		
Expanded uncertainty (k=2, 95%		---		

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Clause	Requirement -Test	Result - Remark	Verdict

confidence)			
The final result	1154.425W		

10 Current Input

Input deviation of/at:	Rated (A)	Measured (A)	Required	Verdict
230 V	-	5.01	+5%, -10%	N/A
		4.99		
		5.04		
		5.02		
AVE:		5.02		
dP% = (Ave Measured – Rated) / Rated × 100		-		
Expanded uncertainty (k=2, 95% confidence)		-		
The final result		5.02 A		

11.8 TABLE: Heating test, thermocouples

	Required Power for test (1.15xrated power) :		1380W		-
	Test voltage (V) :		-		-
	Ambient (°C) :		23.57°C		-
	Thermocouple locations	Measured(°C)	dT (K)	Max. dT (K)	-
	Wood, in general (floor)	71.24	47.67	65	P
	Plug	24.77	1.2	45	P
	Terminals, including earthing terminals, for external conductors	-	-	-	N/A
	Ambient of switches, thermostats and temperature limiters	63.94	40.37	30	F(b)
	Internal and external wiring, including supply cord	91.18	67.61	60	F(b)
	Cord sheaths	24.96	1.39	35	P
	Sliding contacts of cord reels	-	-	65	N/A
	Lamp-holders E14	-	-	50	N/A
	and B15	-	-	40	N/A
	B22, E26, E27	-	-	40	N/A
	fluorescent lamps other lamp holders and starter holders for	-	-	110	N/A
	Outer surface of capacitors	-	-	140	N/A
	External enclosure of motor-operated appliances	-	-	55	N/A
	Surfaces of handles, knobs, grips and similar parts which are continuously held	-	-	-	-
	Bare metal	-	-	30	N/A
	Coated metal	-	-	34	N/A
	Glass and ceramic	-	-	40	N/A
	Plastic and plastic coating >0.4 mm	48.49	24.92	50	P
	Wood	-	-	50	N/A
	Surfaces of handles, knobs, grips and similar parts which are held for short periods	-	-	-	-
	Bare metal	-	-	35	N/A
	Coated metal	-	-	39	N/A
	Glass and ceramic	-	-	45	N/A
	Plastic and plastic coating >0.4 mm	-	-	60	N/A

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Clause	Requirement -Test	Result - Remark	Verdict

	Wood	-	-	65	N/A

11.8 TABLE: Heating test, resistance method

Required Power for test :				-		N/A
Test voltage (V) :				-		N/A
Ambient, t1 (°C) :				-		N/A
Ambient, t2 (°C) :				-		N/A
Temperature rise of winding	R1 (Ω)	R2 (Ω)	dT (K)	Max. dT (K)	Insulation class	Verdict
	-	-	-	-	-	-
	-	-				
	-	-				
AVE:	-	-				
Equation	$\Delta t = \frac{R_2 - R_1}{R_1}(k + t_1) - (t_2 - t_1)$					
Expanded uncertainty (k=2, 95% confidence)						
The final result						

13.2 TABLE: Leakage current

Heating appliances: 1.15 x rated input. (W)		1380W	-
Motor-operated and combined appliances: 1.06 x rated voltage: (V)		-	-
Leakage current between	Max. Allowed I (µA)	Measured I(µA)	
Live parts and foil wrapped enclosure	0.5	4.04	P
		3.97	
		4.01	
		4.08	
AVE:		4.03	
Expanded uncertainty (k=2, 95% confidence)		---	
The final result		4.03 µA	
Live parts and earthed enclosure	750	-	N/A
		-	
		-	
		-	
AVE:		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	

13.3 TABLE: Electric strength

	Test voltage applied between:	Test Voltage (V)	Breakdown (Yes/No)	-
	Live parts and foil wrapped enclosure	3000	No	P
	Live parts and supplementary insulation	1750	No	P
	Live parts and basic insulation	1000	No	P

16.2 TABLE: Leakage current

	Heating appliances: 1.15 x rated input. (W)	1380W	-
	Motor-operated and combined appliances: 1.06 x rated voltage: (V)	-	-
	Leakage current between Max. Allowed I (mA)	Measured I(µA)	Verdict

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Clause	Requirement -Test	Result - Remark	Verdict

	Live parts and foil wrapped enclosure	0.5	4.49		P
			4.55		
			4.58		
			4.50		
	AVE:		4.53		
	Expanded uncertainty (k=2, 95% confidence)		---		
	The final result		4.53 µA		
	Leakage current between	Max. Allowed I (µA)	Measured I(µA)		Verdict
	Live parts and earthed enclosure	-	-		N/A
			-		
			-		
			-		
	AVE:	-	-		
	Expanded uncertainty (k=2, 95% confidence)	-	-		
	The final result	-	-		

16.3 TABLE: Electric strength

	Test voltage applied between:	Test Voltage (V)	Breakdown (Yes/No)	-
	Live parts and foil wrapped enclosure	3000	No	P
	Live parts and supplementary insulation	1750	No	P
	Live parts and basic insulation	1000	No	P

19.4 TABLE: Any control that limits the temperature during the test of Clause 11 is short-circuited

	Required Power for test (1.15 x rated power) :		-		-
	Test voltage (V) :		-		-
	Ambient (°C) :		-		-
	Thermocouple locations	Measured(°C)	dT (K)	Max. dT (K)	dT (K)
	Wood, in general (Test Corner)	-	-	65	NV
	Plug	-	-	60	NV
	Terminals, including earthing terminals, for external conductors	-	-	60	NV
	Ambient of switches, thermostats and temperature limiters	-	-	30	NV
	Internal and external wiring, including supply cord	-	-	60	NV
	Cord sheaths	-	-	35	NV
	Sliding contacts of cord reels	-	-	65	NV
	Lamp-holders	-	-	110	NV
	E14 and B15	-	-	140	NV
	B22, E26, E27 fluorescent lamps other lamp holders and starter holders for	-	-	55	NV
	Outer surface of capacitors	-	-	50	NV
	External enclosure of motor-operated appliances (Winding)	-	-	48	NV
	Surfaces of handles, knobs, grips and similar parts which are continuously held	-	-	-	NV
	Bare metal	-	-	30	NV
	Coated metal	-	-	64	NV
	Glass and ceramic	-	-	40	NV
	Plastic and plastic coating >0.4 mm	-	-	50	NV

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Clause	Requirement -Test	Result - Remark	Verdict

	Wood	-	-	50	NV
	Surfaces of handles, knobs, grips and similar parts which are held for short periods	-	-	-	NV
	Bare metal	-	-	35	NV
	Coated metal	-	-	39	NV
	Glass and ceramic	-	-	45	NV
	Plastic and plastic coating >0.4 mm	-	-	60	NV
	Wood	-	-	65	NV

25 TABLE: SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS

Item	Minimum Limit(mm²)	Measured diameter (mm)	Verdict
Nominal Cross-Sectional Area of Supply Cord	0.75	0.151	-
		0.154	
		0.149	
		0.154	
		0.153	
		0.149	
Rated Current	5.02A (measured)	-	F(d)
Number of Strands	24	-	
Diameter of the Strand	0.152mm	-	
Length of Cable	1m	-	
AVE:		0.152mm	
Ave Crosse section area (mm²) calculated		0.43mm²	
Expanded uncertainty (k=2, 95% confidence)		---	
The final result		0.43mm²	

27 Provision for Earthing

Contact Application	Minimum Limit (Ω)	Measured Value (Ω)	Verdict
Low resistance of connection between earthing terminal and earthed metal parts	0.1 Ω	-	N/A
		-	
		-	
		-	
Average		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	

29 TABLE: Clearances, creepage distances and solid insulation

Clearance Distance	Min. Required (mm)	Measured Value (mm)	Verdict
a) Basic Insulation	1.5	-	N/A
		-	
		-	
		-	
AVE		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	
b) Supplementary Insulation	1.5	-	N/A
		-	
		-	
		-	
AVE:		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	
c) Reinforced Insulation	3.0	-	
		-	

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Clause	Requirement -Test	Result - Remark	Verdict

		-	N/A
		-	
AVE:		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	
d) Functional Insulation	1.5	3.07	P
		3.09	
		3.10	
		3.05	
AVE:		3.08	
Expanded uncertainty (k=2, 95% confidence)		---	
The final result		3.08	
Creepage Distance	Min. Required (mm)		
a) Basic Insulation	1.5	-	N/A
		-	
		-	
		-	
AVE:		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	
b) Supplementary Insulation	1.5	-	N/A
		-	
		-	
		-	
AVE:		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	
c) Reinforced Insulation	3.0	-	N/A
		-	
		-	
		-	
AVE:		-	
Expanded uncertainty (k=2, 95% confidence)		-	
The final result		-	
d) Functional Insulation	1.5	3.07	P
		3.09	
		3.10	
		3.05	
AVE:		3.08	
Expanded uncertainty (k=2, 95% confidence)			
The final result			

30.1	TABLE: Resistance to Heat and Fire				
	Ball Pressure Test		Minimum Limit(mm)	Measured Value(mm)	Verdict
	Test Duration	1 hr			
	Test Temperature	75 °C ± 2 °C	2	-	NV
				-	
				-	
				-	
AVE:				-	
Expanded uncertainty (k=2, 95% confidence)				-	
The final result				-	

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Clause	Requirement -Test	Result - Remark	Verdict

30.1	TABLE: Resistance to Heat and Fire				
	Ball Pressure Test		Minimum Limit(mm)	Measured Value(mm)	Verdict
	Test Duration	1 hr			
	Test Temperature	125 °C± 2 °C	2	-	NV
				-	
				-	
				-	
AVE:				-	
Expanded uncertainty (k=2, 95% confidence)				-	
The final result				-	

30.2	TABLE: Glow wire test (GWT)°C and Needle-flame test (NFT)				Verdict
Point of Application	Glow Wire Test Settings:				-
	Ti (s)	Te (s)	Tissue Flame (Yes/No)	Needle Flame Test	-
Current carrying part	-	-	-	NV	NV
Remarks: Ti = the time between glow wire touched the material and the material ignite Te = the time between glow wire touched the material and the flame extinguished;					

Remarks:

a) The following did not comply with **clause 7 Marking and instructions:**
- Manufacturer's or responsible vendor's name and trademark or identification mark are not marked.
- letter N marked for the terminals not marked.
- The information "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" is not provided in the instruction manual.

b) Instruction manual has no Arabic language translation. (as KSA official language of the country)

c.) Measured temperatures were more than the required limit. **(See table 11.8)**
d.)Sample steam iron is totally burned during abnormal test of **19.4.**
e.) The following did not comply with **clause 25 Supply connection and external flexible cords:**
- Measured cross-sectional area was less than the required limit.

NOTE:
* Sample was marked as class I but no earthing conductor and connection.
* The pins of the plug not comply with Saudi requirements(SASO 2203)
*Some Clauses of 21,22,27 and 30 couldn't apply due to the sample totally burned during the abnormal test(clause 19)

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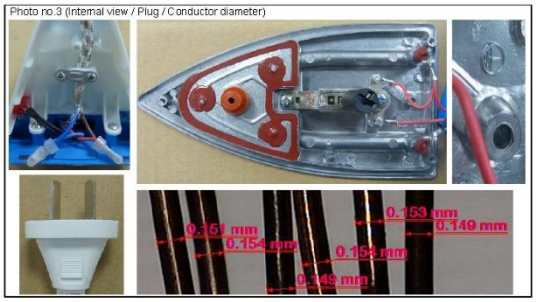
Clause	Requirement -Test	Result - Remark	Verdict

Photo no. 1 (Marking)

Photo no. 2 (General view / External package)

Photo no.3 (Internal view / Plug / Conductor diameter)



Test Report No:	PT2(SQO-HA1)	Standard No:	IEC 60335-1:2020 IEC 60335-2-3:2022
Clause	Requirement -Test	Result - Remark	Verdict

Photo no.4 (After abnormal test of 19.4)

Conformity Decision is usually included in the report, unless the agreement states otherwise by the client.

Results Notes: The acceptance criterion is based on:	A-The relevant TR Requirements ☐	B-The relevant standard specifications ☑
	C- Manufacturer's manual (product technical data sheet) ☐	D- Customer requirements ☑

Acceptance Rule is based on:		Special Case	Rejection Rule (Failing)is based on:	
A- The measured value (+) measurement uncertainty value is less than the maximum required to criteria of acceptance. B- The measured value (-) measurement uncertainty value is greater than the minimum required to criteria of acceptance.	Accept when a confidence level of less than 95% is acceptable	May be accept if: Measured result ≤ the upper limit Measured result ≥lower limit May be rejected if : measured value < the upper limit measured result >lower limit	Rejectwhen a confidence level of less than 95% is acceptable	A- The measured value (+) measurement uncertainty value is greater than the maximum required to criteria of acceptance. B- The measured value (-) measurement uncertainty value is less than the minimum required to criteria of acceptance.

♦ = measurement result with agreed method | I = uncertainty interval of agreed method

☐ **The sample passed all the above-mentioned tests in accordance with the requirements of the product**

Test Report No:	PT2(SQO-HA1)	Standard No:	IEC 60335-1:2020 IEC 60335-2-3:2022

Clause	Requirement -Test	Result - Remark	Verdict

☑ The sample passed all the tests mentioned above in accordance with the requirements for the product, except for the tests mentioned in the remarks where the measured value does not meet the requirements of the product mentioned in the attached standard specifications.

The result is for the sample referred to in the report, which has been tested only and is only representative of itself.

Accreditation statues :	All tests are accredit : ☑	All tests are accredit except: .....

REMARK :
SOFT COPY OF THE CONTROL TEST RESULT SHEET IS AUDITED BY THE LAB SUPERVISOR

	Inspected by	Lab supervisor/ Reviewer	Deputy Technical Manager
Name	Rieman Capio	Patrick Perea	Marwa Mahdy
Sign	28/03/2023	29/03/2026	29/03/2026
Date			

"End of Report"

APPENDIX B

VOID

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