Test Report issued under the responsibility of:

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

Report Number. ..... :	NBES200100008701
Date of issue ..... :	2020-04-15
Total number of pages ..... :	111
Name of Testing Laboratory preparing the Report ..... :	SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch
Applicant's name ..... :	
Address ..... :	
Test specification:	
Standard ..... :	IEC 60335-2-9:2008, COR1:2013, AMD1: 2012, AMD2:2016 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2010, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
Test procedure ..... :	CB Scheme
Non-standard test method ..... :	N/A
Test Report Form No. ..... :	IEC60335_2_9Q
Test Report Form(s) Originator .... :	LCIE
Master TRF ..... :	Dated 2019-09-24

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
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Test item description ..... :	Roaster (Air Fryer)
Trade Mark ..... :	None
Original Product/Equipment Manufacturer ..... :	Same as applicant
Branding Manufacturer(s) ..... :	N/A
Model/Type reference ..... :	GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906
Ratings ..... :	220 V – 240 V; 50 Hz / 60 Hz; Class I GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-617, GLA-618: 1400 W GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-901, GLA-902, GLA-905, GLA-906: 1800 W

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☒	**CB Testing Laboratory:**	SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch	
Testing location/ address.....:		No.1177, Lingyun Road, Hi-Tech Zone, Ningbo, Zhejiang, China	
Tested by (name, function, signature).....:		Clack Gu, PE	Clack Gu
Approved by (name, function, signature)...:		Louis Mao, Reviewer	Louis Mao
☐	**Testing procedure: CTF Stage 1:**	N/A	
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Approved by (name, function, signature)...:			
☐	**Testing procedure: CTF Stage 2:**	N/A	
Testing location/ address.....:			
Tested by (name + signature).....:			
Witnessed by (name, function, signature) .:			
Approved by (name, function, signature)...:			
☐	**Testing procedure: CTF Stage 3:**	N/A	
☐	**Testing procedure: CTF Stage 4:**	N/A	
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature) .:			
Approved by (name, function, signature)...:			
Supervised by (name, function, signature) :			

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

1. Annex I - European Group Difference and National Differences – attachment 16 pages
2. Annex II - Photo documentation – attachment 80 pages
3. Annex III - Circuit diagram – attachment 2 pages
4. Annex IV - Evaluation of EK1 decision – attachment 9 pages

Summary of testing:

Tests performed (name of test and test clause):

Samples of the product have been tested according to the below standards and complied with the requirements:

IEC 60335-2-9:2008 + A1:2012 + A2:2016
IEC 60335-1:2010 + A1:2013 + A2:2016

Evaluation to reissue GS certification due to 5 years validity. All models have been verified without technical differences in construction, particular in circuit, PCB and critical components. No further test is considered necessary. Regulatory documentation has been checked which includes EK-1 decisions, German user manual, compliance to PAH, EMC, EMF, Noise, RoHS and WEEE directives.

Model name	Test items
GLA-902	Full tests
GLA-901	Tests of clause 7, 10, 11, 13, 15, 16, 19, 30, EMF and construction check
GLA-905 GLA-906	Tests of clause 10, 11, 13 and construction check
GLA-617, GLA-618	Test of clause 8, 10, 11, 13, 19 (except for 19.11.2 and 19.12), 20, 21, 22, 25, 29, 30.1, EK1 decisions and EMF with alternative motor YJF61/20)
GLA-501,	Test of clause 8, 11, 13, 20, 21, 22, 25, 29, 30 and EK1 decisions
GLA-502	Test of clause 8, 11, 13, 19 (except for 19.11.2 and 19.12), 20, 21, 22, 25, 29, 30.1 and EK1 decisions
GLA-305, GLA-306, GLA-502A	Test of clause 11 and EK1 decisions (clause 11.105 was not for model GLA-502A)
GLA-309, GLA-310, GLA-505, GLA-506	Test of clause 11.105, EK1 decisions and construction check
GLA-531	Test of clause 11.105, EK1 decisions and construction check
GLA-532	Test of clause 11.105, EK1 decisions, 19.11, 19.12 and construction check

All tests above except for clause 19.11.4

Clause 19.11.4

Testing location:

CBTL

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Summary of compliance with National Differences (List of countries addressed):

- EU Group Differences
- Germany (no National Differences have been published in the CB Bulletin)

EK decisions according to German ProdSG have been taken into account. PAH risk evaluation according to AfPS GS 2019:01 PAK: see PAH risk assessment report no. NBES200100008701/PAH. The following EK decisions were considered applicable: EK1AG2 Rev.10.2018.

The product fulfils the requirements of:

EN 60335-2-9:2003 + A1:2004 + A2:2006 + A12:2007 + A13:2010
EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019
EN 62233:2008

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

☒ **Statement not required by the standard used for type testing**

Copy of marking plate:

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

For GS and CE:

GLA-901
220 V - 240 V 50 Hz / 60 Hz 1800 W

(Importer:)
(Postal address:)

1. As declared by the applicant, the importer's name, registered trade name or registered trade mark and the postal address were not decided at the time of application, but will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

2. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

For CB:

GLA-901

220 V - 240 V 50 Hz / 60 Hz 1800 W .

Copy of marking plates for other models were the same as above one except for model name and rated power.

Test item particulars.....:	
Classification of installation and use.....:	Portable appliance
Supply Connection.....:	Type Y attachment (non-detachable cord with plug)
.....:	
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing.....:	
Date of receipt of test item .....:	2020-01-06
Date (s) of performance of tests.....:	2020-01-06 to 2020-04-15

General remarks:

"(See Annex #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.
Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... :	☐ **Yes** ☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) .....:	Same as applicant

General product information and other remarks:

Roaster (Air Fryer) for household and indoor use only.

There were 22 models in this report. All the electronic models shared the same main PCB with GLA-902 and all the models shared the same motor with GLA-902. Circuit diagram principle of all the electronic models was same as GLA-902.
GLA-308 was same as GLA-308A except for the control PCB. All the electronic models had two thermal links while all the mechanical models had only one thermal link.

GLA-309 was same as GLA-305 except for the upper enclosure;
GLA-310 was same (including control PCB) as GLA-308 except for the upper enclosure;
GLA-505 was same as GLA-501 except for the upper enclosure;
GLA-506 was same (including control PCB) as GLA-502 except for the upper enclosure.
Thermal link for GLA-617 and GLA-618 was Tf172, while for other models was Tf192.
Refer to following table for details:

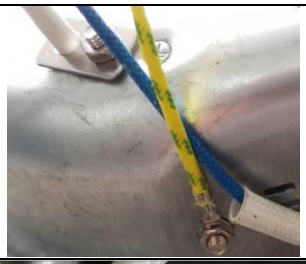
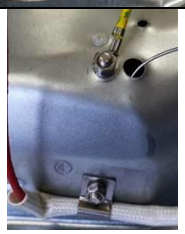
Model name	Rate power	Appearance	Control way	Remark
GLA-305	1400 W		Mechanical control	Shared the similar appearance with GLA-306
GLA-306	1400 W		Electronic control	
GLA-307	1400 W		Mechanical control	GLA-307 was same as GLA-501 except for the heating element and size, GLA-501 was bigger than GLA-307.
GLA-501	1800 W			
GLA-308	1400 W		Electronic control	GLA-308 was same as GLA-502 except for the heating element, size and control PCB layout. GLA-502 was bigger than GLA-308.
GLA-502	1800 W			
GLA-308A	1400 W		Electronic control	GLA-308A was same as GLA-502A except for the heating element, size and control PCB layout. GLA-502A was bigger than GLA-308A.
GLA-502A	1800 W		Electronic control	
GLA-617	1400 W		Mechanical control	GLA-617 shared the similar appearance with GLA-618 except for the control way.

GLA-618	1400 W		Electronic control		
GLA-309	1400 W		Mechanical control	GLA-309 was same as GLA-505 except for the heating element and size, GLA-505 was bigger than GLA-309.	
GLA-505	1800 W				
GLA-310	1400 W		Electronic control	GLA-310 was same as GLA-506 except for the heating element and size, GLA-506 was bigger than GLA-310.	
GLA-506	1800 W				
GLA-331	1400 W		Mechanical control	GLA-331 was same as GLA-531 except for the heating element and size, GLA-531 was bigger than GLA-331.	
GLA-531	1800 W				
GLA-332	1400 W		Electronic control	GLA-332 was same as GLA-532 except for the heating element and size, GLA-532 was bigger than GLA-332.	
GLA-532	1800 W				
GLA-901	1800 W		Mechanical control	GLA-901 shared the similar appearance with GLA-902 except for the control way.	
GLA-902	1800 W		Electronic control		

GLA-905	1800 W		Mechanical control	GLA-905 shared the similar appearance with GLA-906 except for the control way.
GLA-906	1800 W		Electronic control	

Remark:

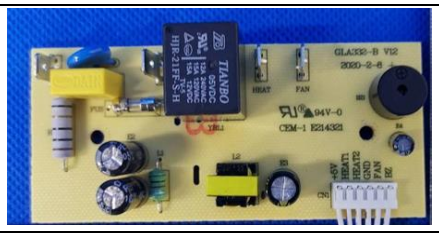
a. There were two ways of earthing connections for internal metal skeleton, see following table for details:

	Original connection	Alternative connection
Connection for electronic models		
connection for mechanical models		

b. There were two kinds of air outlet, see following table for details:

Alternative air outlet	Original air outlet
	

c. There were two kinds of main PCBs for all the electronic models, which shared the similar circuit principle with each other. see following table for details:

Original main PCB	Alternative main PCB
	

d. There were two kinds of construction for model GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A,

GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, see following table for details:

With metal cover in bottom	Without metal cover in bottom
	

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
5	**GENERAL CONDITIONS FOR THE TESTS**		—
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		P
5.2	See Note (IEC 60335-2-9)		N/A
5.3	If it is evident from the construction of the appliance that the test of one function will produce more favourable results than another, this function is not tested. (IEC 60335-2-9)		N/A
5.6	If two or more cooking functions can be performed simultaneously, they are tested at the same time. (IEC 60335-2-9)		N/A
5.101	Induction hotplates are operated as specified for motor-operated appliances. Other appliances are tested as specified for heating appliances, even if they incorporate motors (IEC 60335-2-9)		P
	In appliances that incorporate induction hotplates in addition to other heating units, the induction hotplates are operated simultaneously and supplied separately (IEC 60335-2-9)		N/A
6	**CLASSIFICATION**		—
6.1	Protection against electric shock: Class 0, 0I, I, II, III..... ..... :	Class I	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		N/A
	Appliances intended for outdoor use shall be at least IPX4 (IEC 60335-2-9)		N/A
7	**MARKING AND INSTRUCTIONS**		—
7.1	Rated voltage or voltage range (V) .... :	220 V – 240 V	P
	Symbol for nature of supply, or .... :		N/A
	Rated frequency (Hz) .... :	50 Hz / 60 Hz	P
	Rated power input (W), or .... :	Refer to page 2	P
	Rated current (A) .... :		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark..... ..... :	See copies of marking plates	P
	Model or type reference .... :	Refer to page 2	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0..... ..... :		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only, or		N/A
	for appliances powered by rechargeable batteries recharged in the appliance		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		N/A
	The rated power input or rated current of induction hotplates shall also be marked..... (IEC 60335-2-9)		N/A
	Appliances intended to be partially immersed in water for cleaning shall be marked with the maximum level of immersion and the substance of the following: Do not immerse beyond this level (IEC 60335-2-9)	Not for such use	N/A
	If cookers, portable ovens and rotary grills have accessible metal surfaces, other than working surfaces, that have a temperature rise exceeding 90 K during the test of Clause 11, they shall be marked with symbol IEC 60417-5041(2002-10), the rules of ISO 3864-1 applying except for the specified colours, or with the substance of the following: Hot surface ..... (IEC 60335-2-9)		N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	220 V – 240 V	P
	Different rated values marked with the values separated by an oblique stroke	50 Hz / 60 Hz	P
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequencies setting is clearly discernible		N/A
	Requirement met if frequent changes are not required and the rated voltage to which the appliance is to be adjusted is determined from a wiring diagram		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	the power input is related to the arithmetic mean value of the rated voltage range	220 V – 240 V	P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		N/A
	correct mode of connection is obvious		N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		—
	- marking of terminals exclusively for the neutral conductor (letter N)		N/A
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		P
7.9	Marking or placing of switches which may cause a hazard		P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means .... :	Figures and letters were used, see photo documentation for details.	P
	This applies also to switches which are part of a control		P
	If figures are used, the off position indicated by the figure 0		P
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
7.11	Indication for direction of adjustment of controls		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		—
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		P
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated..... ..... :		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
	Appliance with inlet and intended to be immersed for cleaning, instruction sheet including in substance: (IEC 60335-2-9)		—
	- remove connector before cleaning		N/A
	- dry appliance inlet before re-use		N/A
	The instructions for use for appliances intended to be used with a connector incorporating a thermostat shall state that only the appropriate connector must be used (IEC 60335-2-9)		N/A
	Instructions for appliances for outdoor use (IEC 60335-2-9):		—
	-The appliance is suitable for outdoor use		N/A
	-The supply cord should be regularly examined for signs of damage, and if the cord is damages, the appliance must not be used		N/A
	-The appliance must be supplied through a residual current device (RDC) having a rated residual operating current not exceeding 30mA		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	-The appliance is to be connected to a socket-outlet having an earthing contact (class I)		N/A
	If symbol IEC 60417-5041 (2002-10) is marked on appliances, its meaning shall be explained (IEC 60335-2-9)		P
	The instructions shall state that the appliances are not intended to be operated by means of an external timer or separate remote-control system (IEC 60335-2-9)		P
	Instructions for use		N/A
	For oven: The temperature of the door or the outer surface may be high when the appliance is operating ..... (IEC 60335-2-9)		N/A
	For toaster: Bread may burn. Therefore toasters must not be used near or below curtains and other combustible materials. They must be watched .... (IEC 60335-2-9)		N/A
	For barbecue: WARNING: Charcoal or similar combustible fuels must not be used with this appliance. ..... (IEC 60335-2-9)		N/A
	For barbecue: Maximum quantity of water to be poured into the appliance ..... (IEC 60335-2-9)		N/A
	If top surface of a hotplate is of glass-ceramic or similar material and protects live parts, warning : If the surface is cracked, switch off the appliance to avoid the possibility of electric shock (IEC 60335-2-9)		N/A
	For induction hotplates: Metallic objects such as knives, forks, spoons and lids not be placed on the hotplate since they can get hot... (IEC 60335-2-9).		N/A
	For breadmakers: maximum quantities of flour and raising agent that may be used ... (IEC 60335-2-9)		N/A
	The instructions for candy floss appliances shall state the maximum quantities of sugar and other ingredients that may be used. ..... (IEC 60335-2-9)		N/A
	The instructions shall include the substance of the following: (IEC 60335-2-9)		—
	This appliances is intended to be used in household and similar applications such as: -staff kitchen areas in shops, offices and others working environments; -farm houses; -by clients in hotels, motels and other residential type environments; -bed and breakfast type environments.		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Note 101: If the manufacturer wants to limit the use of the appliance to less than above, this must be clearly stated in the instructions. (IEC 60335-2-9)		N/A
7.12.1	Sufficient details for installation supplied		N/A
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		—
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	Replacement cord instructions, type Z attachment		N/A
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

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
7.12.8	Instructions for appliances connected to the water mains:		—
	- max. inlet water pressure (Pa) .... :		N/A
	- min. inlet water pressure, if necessary (Pa) ..... :		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		P
	These instructions may be supplied with the appliance separately from any functional use booklet	Optional	P
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	Optional	P
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		P
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD .... :	Website	P
7.13	Instructions and other texts in an official language	English and German	P
7.14	Marking clearly legible and durable, rubbing test as specified		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified .... :		N/A
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm .... :		N/A
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		N/A
	contrasting colours are used		P
	Markings checked by inspection, measurement and rubbing test as specified		P
	The height of the triangle used with symbol IEC 60417-5041(DB:2002-10) shall be at least 12 mm (IEC 60335-2-9).		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A
	The marking specified for hot surfaces shall be visible when the appliance is operated as in normal used including when actuating any switch, adjusting any control or opening a lid or door. It shall not be placed on a hot functional surface (IEC 60335-2-9)		P
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N/A
7.101	The cooking zone of hot plates shall be identified by appropriate marking (IEC 60335-2-9)		N/A
	unless it is obvious		N/A
8	**PROTECTION AGAINST ACCESS TO LIVE PARTS**		—
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		P

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Clause	Requirement + Test	Result - Remark	Verdict
	For toasters having a crumb tray : use of test probe 41 of IEC 61032 : no contact through crumb tray with live parts that are disconnected by double pole switch using (IEC 60335-2-9)		N/A
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	Class II construction	P
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements		N/A
	For a single switching action obtained by a switching device, requirements as specified		N/A
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug		N/A
	For toasters it is not necessary for the heating element switching device to provide full disconnection or meet the clearances for full disconnection specified in 20.1.5.3 of IEC 61058-1:2000 obtained from Table 22 of IEC 61058-1:2000. (IEC 60335-2-9)		N/A
8.1.4	Accessible part not considered live if:		—
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42.4 V		N/A
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0.7 mA		N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	For toasters it is not necessary for the heating element switching device to provide full disconnection or meet the clearances for full disconnection specified in 20.1.5.3 of IEC 61058-1:2000 obtained from Table 22 of IEC 61058-1:2000		N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		—
	- built-in appliances		N/A
	- fixed appliances		N/A
	- appliances delivered in separate units		N/A
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		P
	Only possible to touch parts separated from live parts by double or reinforced insulation		P
9	**STARTING OF MOTOR-OPERATED APPLIANCES**		—
	Requirements and tests are specified in part 2 when necessary		N/A
10	**POWER INPUT AND CURRENT**		—
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 ..... :	(see appended table)	P
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		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 power input is related to the arithmetic mean value		P
	Power input of induction hotplates measured separately and the tolerances for motor-operated appliances apply. (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2 ..... :		N/A
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		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 range		N/A
	Current input of induction hotplates measured separately and the tolerances for motor-operated appliances apply (IEC 60335-2-9)		N/A
11	**HEATING**		—
11.1	No excessive temperatures in normal use		P
	Compliance for toasters is also checked by the test of 11. 101 (IEC 60335-2-9)		N/A
	Compliance for ovens, rotary grills and cookers is also checked by the test of 11.102. (IEC 60335-2-9)		N/A
	Compliance for contact grills, waffle irons, radiant grills, raclette grills, barbecues, candy floss appliances and hot plates, is also checked by the test of 11.103. (IEC 60335-2-9)		N/A
	Compliance for breadmakers, pop-corn makers, and food dehydrators is also checked by the test of 11.104. (IEC 60335-2-9)		N/A
	Compliance for roasters is also checked by the test of 11.105. (IEC 60335-2-9)		P
	For all other types of appliances, compliance is checked by submitting the appliance to the tests of the nearest mentioned relevant type of appliance. (IEC 60335-2-9)		N/A
11.2	The appliance is held, placed or fixed in position as described ..... :	Placed away from walls	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Radiant grills and raclette grills that are loaded from the front, rotary grills, ovens, breadmakers, cookers and hotplates are placed with their backs as near as possible to one of the walls of the test corner and away from the other wall ..... (IEC 60335-2-9)		N/A
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		P
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
	For flat surfaces, temperature rises are measured using the probe of Figure 105. 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. (IEC 60335-2-9)		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) .... :	(see appended table)	P
	If the temperature rise limits are exceeded in appliances incorporating motors, transformers or electronic circuits, and if the power input is lower than the rated power input, the test is repeated with the appliance supplied at 1,06 times rated voltage ..... (IEC 60335-2-9)		N/A
	Breadmakers are operated as specified for combined appliances. ..... (IEC 60335-2-9)		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V) ..... :		N/A
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V) ..... :		N/A
	Induction hot plates are also operated with vessels, as specified in Figure 104, containing water and covered with a lid. Controls are adjusted to their highest setting until the water boils and then adjusted so that the water simmers. Water is added to maintain the level during simmering. (IEC 60335-2-9)		N/A
11.7	Tests carried out in compliance with the paragraphs N° 1 to 11 (IEC 60335-2-9)		P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3 ..... :	(see appended table)	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
	For radiant grills, rotary grills, raclette grills, hotplates and cookers, instead of 65 K, the temperature rise of the wall of the test corner shall not exceed 75 K. (IEC 60335-2-9)		N/A
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-9)		N/A
	The temperature rise limits of motors, transformers, components of electronic circuit and parts directly influenced by them may be exceeded when the appliance is operated at 1,15 times rated power input (IEC 60335-2-9)		N/A
	Cheese used in sandwich toasting attachments doesn't flow into places where it can give rise to a hazard, such as reducing clearances or creepage distances below the values specified in Clause 29 (IEC 60335-2-9).		N/A
	The temperature rise limits for touch controls also include all surfaces within 5 mm of the touch controls, regardless of their shape. (IEC 60335-2-9)		P
11.101	Toasters are placed as specified in 11.2 and are operated for three cycles at rated power under normal operation (IEC 60335-2-9).		N/A
	During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102 (IEC 60335-2-9).		N/A
11.102	Ovens, rotary grills and cookers are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Appliances are operated until steady conditions are established or for 60 min, whichever is shorter. During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.		N/A
	Ovens having settings higher than 240 °C are also operated at the maximum setting until steady conditions are established or for 60 min, whichever is shorter. The temperature rise limits of Table 102 for top surfaces and door surfaces are increased by 10 K.		N/A
11.103	Contact grills, waffle irons, radiant grills, raclette grills, barbecues, candy floss appliances and hot plates are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation. (IEC 60335-2-9)		N/A
	Induction hotplates and induction wok hotplates are operated at rated voltage instead of rated power input.		N/A
	During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.		N/A
11.104	Breadmakers, pop-corn makers and food dehydrators are placed as specified in 11.2 and operated under normal operation. Pop-corn makers and food dehydrators are supplied at rated power input and breadmakers are supplied at rated voltage. (IEC 60335-2-9).		N/A
11.105	Roasters are placed as specified in 11.2 and are supplied at rated power input and operated under normal operation. (IEC 60335-2-9) During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.	(See appended table)	P
13	**LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE**		—
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times the rated power input (W)..... :	(See appended table)	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		P
	grill incorporated in oven, oven or grill operated most unfavourable (IEC 60335-2-9).		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Induction wok hotplates are operated with the wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale. (IEC 60335-2-9).		N/A
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	Class II constructions	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 I appliance	P
	Leakage current measurements..... :	(see appended table)	P
	If earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn connected to earthed metal not exceeding 0,75 mA (IEC 60335-2-9)		N/A
	If no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn not exceeding 0,25 mA (IEC 60335-2-9)		N/A
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4 ..... :	(see appended table)	P
	test voltage of 1000V if earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate (IEC 60335-2-9).		N/A
	test voltage of 3000 V if no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate (IEC 60335-2-9).		N/A
	No breakdown during the tests		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		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	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
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529 ..... :		N/A
	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances		N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test		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 unperforated support		N/A
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board		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, take into account the distance to the floor stated in the instructions		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		N/A
	Detachable parts subjected to the relevant treatment with the main part		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed		N/A
15.2	Spillage of liquid does not affect the electrical insulation	Not carried out on roaster	N/A
	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent		N/A
	Appliances with type X attachment fitted with a flexible cord as described		N/A
	Appliances incorporating an appliance inlet tested with or without an 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
	Overfilling test; quantity : as specified in IEC 60335-2-9		N/A
	Ovens: 0.5l (IEC 60335-2-9)		N/A
	Hotplates and cookers : 0.5l ,15s (IEC 60335-2-9)		N/A
	For induction wok hotplates, the test is performed using the wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale. (IEC 60335-2-9)		N/A
	Hotplates incorporate a thermal control : 0.02l (IEC 60335-2-9)		N/A
	Hotplates having ventilating opening : 0.2l (IEC 60335-2-9)		N/A
	Other appliances : 0.1l/100cm² 1min (IEC 60335-2-9)		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
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Humidity test for 48 h in a humidity cabinet		P
	Reassembly of those parts that may have been removed		P
	The appliance withstands the tests of clause 16		P
15.101	Appliances to be immersed in water for cleaning sufficiently protected against effects of immersion (IEC 60335-2-9)		N/A
	Testing conditions and scheduling as specified		N/A
	No trace of water on insulation which can result in reduction of creepage distances and clearance below values specified in 29		N/A
16	**LEAKAGE CURRENT AND ELECTRIC STRENGTH**		—
16.1	Leakage current not excessive and electric strength adequate		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
	For hotplates, the tests are carried out with a vessel as specified for normal operation placed on each cooking zone (IEC 60335-2-9).		N/A
	Induction wok hotplates are operated with the wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale. (IEC 60335-2-9).		N/A
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V) ..... :	(see appended table)	P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by √3 (V)..... :		N/A
	Leakage current measurements..... :	(see appended table)	P
	Limit values doubled if:		—
	- all controls have an off position in all poles, or		N/A
	- 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 do not exceed limits specified .... :	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	If earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn connected to earthed metal not exceeding 0,75 mA (IEC 60335-2-9)		N/A
	If no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate, leakage current between live parts and each of vessels in turn not exceeding 0,25 mA (IEC 60335-2-9)		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..... :	(see appended table)	P
	test voltage of 1250 V if earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate. (IEC 60335-2-9)		N/A
	test voltage of 3000 V if no earthed metal between live parts and surface of glass-ceramic (or similar) of hotplate. (IEC 60335-2-9)		N/A
	No breakdown during the tests		P
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 ..... :		N/A
	Appliance supplied with 1.06 or 0.94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V) ..... :		N/A
	Basic insulation is not short-circuited		N/A
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K		N/A
	Temperature of the winding not exceeding the value specified in table 8		N/A
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A
18	**ENDURANCE**		—
	Requirements and tests are specified in part 2 when necessary		N/A
19	**ABNORMAL OPERATION**		—

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe ..... :	(See appended table)	P
	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and		P
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		P
	if applicable, to the test of 19.5		P
	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		P
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		P
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		P
	Appliances incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or		P
	until steady conditions are established		P
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		N/A
	Tests of 19.4 and 19.5 are only applicable to: - breadmakers, contact grills, food dehydrators - ovens, roasters, hotplates *other than induction hotplates*, cookers, rotary grills if they incorporate a timer or if their instructions indicate a cooking operation longer than 1h (IEC 60335-2-9)	Roaster incorporate a timer	P
	Toasters are subjected to the tests 19.101 and 19.102 (IEC 60335-2-9)		N/A
	However, induction wok hotplates are not subjected to the test of 19.104, 19.105 and 19.107, but 19.2, 19.3 and 19.4 are not applicable. (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Induction hotplates are subjected to the tests 19.103 and 19.104 (IEC 60335-2-9)		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) ..... :	(see appended table)	P
	Radiant grills, raclette grills that are loaded from the front , rotary grills, ovens, hotplates and cookers are placed as near as possible to the walls of the test corner..... (IEC 60335-2-9)		N/A
	They are tested empty with lids open or closed whichever is the more unfavourable ..... (IEC 60335-2-9)	Container installed	P
	Induction hotplates are operated under conditions of clause 11 but with empty vessels, controls adjusted to the highest setting (IEC 60335-2-9)		N/A
	Cookers are only tested with the heating unit that results in the most unfavourable conditions, their controls adjusted to the highest setting. However ovens are operated if they do not have an indicating lamp to show when they are switched on, controls adjusted to the highest setting (IEC 60335-2-9)		N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W) ..... :	(see appended table)	P
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	(see appended table)	P
	Air-circulating fans of food dehydrators disconnected (IEC 60335-2-9)		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	test results were covered by clause 11 and 19.4.	P
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		P
	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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
	capacitor is of class S2 or S3 of IEC 60252-1		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..... :	Until thermal link operated	P
	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..... :	(see appended table)	P
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

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Clause	Requirement + Test	Result - Remark	Verdict
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless		P
	they comply with the conditions specified in 19.11.1		P
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless		P
	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		P
	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		P
	During and after each test the following is checked:		—
	- the temperature of the windings do not exceed the values specified in table 8		P
	- the appliance complies with the conditions specified in 19.13		P
	- 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:		—
	- the base material of the printed circuit board withstands the test of 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:		—
	- 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		P
	- 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		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
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:		—
	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		P
	c) short circuit of capacitors, unless		P
	they comply with IEC 60384-14		P
	d) short circuit of any two terminals of an electronic component, other than integrated circuits		P
	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		P
	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
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		P
	a device that can be placed in the stand-by mode,		P
	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode		P
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that		N/A
	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.		N/A
	Surge protective devices disconnected, unless		N/A
	They incorporate spark gaps		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		P
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3		P
19.11.4.3	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		P
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		P
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		P
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		P
	Earthed heating elements in class I appliances disconnected		P
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		P
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		P
	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34		N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		P
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate		P
	The appliance continues to operate normally, or		P
	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); rated current of the fuse-link (A)..... :	Max measured current: 15 A; Rated current: 3,15 A	P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature rises not exceeding the values shown in table 9 ..... :	(see appended table)	P
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		—
	- basic insulation (V) ..... :	1000	P
	- supplementary insulation (V)..... :	1750	P
	- reinforced insulation (V) ..... :	3000	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage		P
	The appliance does not undergo a dangerous malfunction, and		P
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		—
	- do not become operational, or		P
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		—
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
	During the test of 19.102 any flame or smoke from the bread are ignored (IEC 60335-2-9)		N/A
	Temperature rise of the windings of induction hotplates not exceeding the values specified in 19.7 (IEC 60335-2-9)		N/A
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		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		P
	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		P
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
19.101	Toasters operated at rated power input and under normal operation, but without bread, for six cycles of operation, test repeated 500 times (IEC 60335-2-9)		N/A
	The mechanism operates satisfactorily and no sustained arcing occurs. (IEC 60335-2-9)		N/A
19.102	Toasters: test with the ejector mechanism locked (IEC 60335-2-9)		N/A
19.103	Toasters, loaded with the bread specified for normal operation, are operated at rated power input for 2 cycles with the control at maximum setting. The bread is not replaced. (IEC 60335-2-9)		N/A
19.104	Induction hotplates are supplied at rated voltage and operated with a steel disk placed on the centre of the cooking zone. The disk has a thickness of 6 mm and the smallest diameter, rounded up to the nearest centimetre, which allows the appliance to operate. (IEC 60335-2-9).		N/A
19.105	Induction hotplates operated with thermal controls short-circuited or rendered inoperative in turn: The temperature rise of the oil shall not exceed 270 K (IEC 60335-2-9).		N/A
19.106	Pop-corn makers: operated under conditions of clause 11 for a period of 5 min but with the popcorn outlet blocked by means of a grid with a mesh size small enough to keep the popcorn from being ejected from the appliance (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
19.107	Induction hotplates are operated under the conditions of Clause 11 but with empty vessels, controls being adjusted to the highest setting. (IEC 60335-2-9)		N/A
	Induction wok hotplates are operated under the conditions of Clause 11 with an empty wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale, controls being adjusted to the highest setting.		N/A
20	**STABILITY AND MECHANICAL HAZARDS**		—
20.1	Appliances having adequate stability		P
	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn		P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°		P
	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9		N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		P
	Protective enclosures, guards and similar parts are non-detachable, and		P
	have adequate mechanical strength		P
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		P
	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 probe described		P
20.101	Oven with horizontal hinged door: successful tilting test in conditions as specified, if relevant (weight of 3,5 kg) (IEC 60335-2-9).		N/A
21	**MECHANICAL STRENGTH**		—
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	The appliance shows no damage impairing compliance with this standard, and		P
	compliance with 8.1, 15.1 and clause 29 not impaired		P
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3		N/A
	If necessary, repetition of groups of three blows on a new sample		N/A
	For appliances intended for outdoor use, the impact energy is 0.7J (IEC 60335-2-9)		N/A
	Appliances incorporates visibly glowing heating elements the blows are applied to the tubes without removing any heater guards as mounted in the appliance if they are (IEC 60335-2-9)		—
	-located at the top of the oven and accessible to test probe 41 of IEC 61032;		N/A
	-located elsewhere in the oven and accessible to test probe B of IEC 61032.		N/A
	For hotplates with surfaces of glass-ceramic or similar, three blows applied to parts surfaces not exposed to the test of 21.101, impact energy 0,70J ± 0,05 J. (IEC 60335-2-9).		N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		P
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm		P
	The insulation is tested as specified, and does withstand the electric strength test of 16.3		N/A
21.101	Surfaces of hotplates of glass-ceramic or similar material withstand the stresses liable to occur in normal use, under test conditions as specified (IEC 60335-2-9).		N/A
	Induction wok hotplates are tested with a wok pan that is supplied by the manufacturer with the induction wok hotplate at the point of sale. The wok pan is filled with sand or shot so that the total mass, including the mass of the wok pan, is equal to 1,8 kg ± 0,01 kg. (IEC 60335-2-9)		N/A
	After the tests, surface of hotplate not broken).		N/A
	Withstand dielectric strength test of 16.3		N/A
22	**CONSTRUCTION**		—

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled		N/A
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		—
	- a supply cord fitted with a plug, or		N/A
	- a switch complying with 24.3, or		N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or		N/A
	- an appliance inlet		N/A
	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor		N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets		N/A
	Applied torque not exceeding 0.25 Nm		N/A
	Pull force of 50N 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 1mm		N/A
	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless		N/A
	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		P
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0,1μF, the appliance being disconnected from the supply at the instant of voltage peak		P
	Voltage not exceeding 34 V (V)..... :	Max 16 V	P
	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied		P
	The discharge test is then repeated three times, voltage not exceeding 34 V (V) ..... :	Max 16 V	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.6	Electrical insulation not affected by condensing water or leaking liquid		P
	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
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices		N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use		N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless		P
	the substance has adequate insulating properties		N/A
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:		N/A
	- a non-self-resetting thermal cut-out is required by the standard, and		N/A
	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	they are voltage maintained		N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		P
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		P
	Tests as described		P
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard		P
	A choking hazard does not apply to appliances for commercial use		N/A
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		P
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		P
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		P
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		P
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance		P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts		N/A
	Cord reel tested with 6000 operations, as specified		N/A
	Electric strength test of 16.3, voltage of 1000 V applied		N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner		N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion		P
22.19	Driving belts not relied upon to provide the required level of insulation, unless		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		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless		P
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		P
22.22	Appliances not containing asbestos		P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported		N/A
	Heating elements constructed or supported so they are unlikely to become displaced in normal use. (IEC 60335-2-9)		P
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts		N/A
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation		N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation		N/A
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation		N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or		P
	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear		P
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29		P
	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2		N/A
	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation		N/A
	~~Insulating~~ Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation		P
	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		N/A
	Electrodes not used for heating liquids		N/A
	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid		N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless		P
	the shaft is not accessible when the part is removed		N/A
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation		P
	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		N/A
	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation		N/A
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless		N/A
	they are separated from live parts by double or reinforced insulation		N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless		N/A
	the capacitors comply with 22.42		N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out		P
22.39	Lamp holders used only for the connection of lamps		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
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 14.1 a) in IEC 60065		N/A
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14		N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur		N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy		P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		P
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1		N/A
	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards		N/A
	These requirements are not applicable to software used for functional purpose or compliance with clause 11		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use		N/A
	No leakage from any part, including any inlet water hose		N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water		N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A
	the appliance switches off automatically or can operate continuously without hazard		N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation		N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode		N/A
	There is a visual indication showing that the appliance is adjusted for remote operation		N/A
	These requirements not necessary on appliances that can operate as follows, without giving rise to a hazard:		—
	- continuously, or		N/A
	- automatically, or		N/A
	- remotely		N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		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 be distinguished from other manual devices by means of shape, size, surface texture or position ……..:	Position	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	The requirement concerning position does not preclude use of a push on push off switch		P
	An indication when the device has been operated is given by:		—
	– tactile feedback from the actuator or from the appliance, or		P
	– reduction in heat output; or		N/A
	– audible and visible feedback		P
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 Annex T		N/A
	This requirement does not apply to glass, ceramics or similar materials		N/A
22.101	Radiant grills: no timer that is intended to delay the operation of a heating element, (IEC 60335-2-9)		N/A
	Unless having a thermostat and being incorporated in an oven or other compartment, (IEC 60335-2-9)		N/A
	Hotplates shall not incorporate a timer that is intended to delay the operation of a heating element. (IEC 60335-2-9)		N/A
22.102	Barbecue shall not be provided with bare heating elements (IEC 60335-2-9)		N/A
	Oven: heating elements with bare conductors at the top only (IEC 60335-2-9)		N/A
22.103	Oven vents constructed so that moisture or grease cannot reduce the clearances and creepage distances. (IEC 60335-2-9)		N/A
22.104	Ovens constructed so that shelves can easily slide in the supports and do not fall out of position when the sides are displaced as much as possible. (IEC 60335-2-9)		N/A
22.105	Appliances have not openings on the underside that would allow small items to penetrate and touch live parts. (IEC 60335-2-9)	No such opening	P
	Distance measured between the supporting surface and live parts through openings (IEC 60335-2-9)		N/A
	Distance requested as specified:(IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.106	Grills and barbecues constructed so that their heating elements are fixed in position or prevented from operating when they are not in their normal position of use…….. (IEC 60335-2-9)		N/A
22.107	Hotplate constructed so that heating elements are prevented from rotating about a vertical axis and are adequately supported in all positions of adjustment of their supports……(IEC 60335-2-9)		N/A
22.108	Hotplate constructed so that inadvertent operation of touch controls is unlikely if this could give rise to a hazardous situation due to spillage of liquids or damp cloth placed on the control panel, and complies with test as specified……(IEC 60335-2-9)		N/A
22.109	Hotplate incorporating touch controls constructed so that at least two manual operations are requested to switch on a heating element but only one to switch it off……(IEC 60335-2-9)		N/A
22.110	Induction hotplates constructed so that they can only be operated with a suitable vessel placed on the cooking zone……..(IEC 60335-2-9)		N/A
	Temperature rise of iron not exceeding 35K……(IEC 60335-2-9)		N/A
22.111	Heating element in breadmakers located so they are not exposed to dough that they may rise over the edge of the dough container during normal use of the appliance……(IEC 60335-2-9)		N/A
22.112	Reconnection of the power supply to a breadmaker after an interruption shall not result in a fire due to an extended heating period……(IEC 60335-2-9)		N/A
	All batteries are removed and the breadmaker is supplied at rated voltage and operated in heating mode without load……(IEC 60335-2-9)		N/A
	The appliance shall eventually require a manual operation to restart it……(IEC 60335-2-9)		N/A
22.113	Toasters having an ejector mechanism shall be constructed so that they switch off automatically after the normal toasting time even if the ejector mechanism is blocked by the bread. (IEC 60335-2-9)		N/A
22.114	Heating elements in candy floss appliances shall be located so that they are not exposed to sugar during normal use of the appliance. (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
22.115	For appliances incorporating a hotplate with at least one heating unit controlled by an electronic circuit, safety shall not be impaired in the event of a fault in the electronic circuit. (IEC 60335-2-9)		N/A
23	**INTERNAL WIRING**		—
23.1	Wireways smooth and free from sharp edges		P
	Wires protected against contact with burrs, cooling fins etc.		P
	Wire holes in metal well-rounded or provided with bushings		N/A
	Wiring effectively prevented from coming into contact with moving parts		P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
	Flexible metallic tubes not causing damage to insulation of conductors		N/A
	Open-coil springs not used		N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
	Not more than 10% of the strands of any conductor broken, and		N/A
	not more than 30% for wiring supplying circuits that consume no more than 15W		N/A
	Appliance with 2 stop positions: 10000 flexings made with moving part fully opened (IEC 60335-2-9)		N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		N/A
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,		N/A
	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.		N/A
	A single layer of internal wiring insulation does not provide reinforced insulation		P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		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		P
23.8	Aluminium wires not used for internal wiring	Aluminium wires not used	P
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless		P
	the contact pressure is provided by spring terminals		N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		N/A
24	**COMPONENTS**		—
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components ..... :	(see appended table)	P
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance		P
	Relays tested as part of the appliance, or		P
	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance		P
	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard		P
	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections		P
	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		P
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met		P
	If these conditions are not satisfied, the component is tested as part of the appliance.		P
	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		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N/A
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14		P
	If the capacitors have to be tested, they are tested according to Annex F		N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16		N/A
	Safety isolating transformers complying with IEC 61558-2-6		N/A
	If they have to be tested, they are tested according to Annex G		N/A
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		P
	If they have to be tested, they are tested according to Annex H		N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		P
	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
	Switches controlling heating elements of hotplates subjected to 30 000 cycles of operation (IEC 60335-2-9)		N/A
	Switches controlling heating elements of toaster subjected to 50000 cycles of operation (IEC 60335-2-9)		N/A
24.1.4	Automatic controls complying with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		—
	- thermostats: 10 000	Approved thermostat	P
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 300		N/A
	- voltage maintained non-self-resetting thermal cut-outs: 1 000		N/A
	- other non-self-resetting thermal cut-outs: 30		N/A
	- timers: 3 000	Approved timer	P
	- energy regulators for automatic action (IEC 60335-2-9): 100 000		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	- energy regulators for manual action (IEC 60335-2-9): 10 000		N/A
	Self-resetting thermal cut-outs for heating elements of glass-ceramic hotplates (IEC 60335-2-9) 100 000		N/A
	Self-resetting thermal cut-outs for other hotplates (IEC 60335-2-9) 10 000		N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		N/A
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A
	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		N/A
24.1.5	Appliance couplers complying with IEC 60320-1		N/A
	However, for class II appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A
	Interconnection couplers complying with IEC 60320-2-2		N/A
	Appliance couplers incorporating thermostats, thermal cut-outs or fuses comply with IEC 60320-1, with exceptions specified in IEC 60335-9 (IEC 60335-2-9)		N/A
	Not applicable to conditions as specified (IEC 60335-2-9)		N/A
24.1.6	Small lamp holders similar to E10 lampholders complying 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	The relevant standard for thermal links is IEC 60691	Approved thermal link	P

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance..... :	Approved relay	P
24.2	Appliances not fitted with:		—
	- switches, automatic controls or power supplies in flexible cords		P
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	- thermal cut-outs that can be reset by soldering, unless		N/A
	the solder has a melding point of at least 230 ˚C		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 and appliance inlets complying with the standard sheets of IEC 60320-1		N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly		N/A
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load		N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of Annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		—
	- the capacitors are of class S2 or S3 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E		N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A
24.101	Thermostats and energy regulators incorporating an off position: off position maintained under test conditions (IEC 60335-2-9)		N/A
	Thermostats and energy regulators incorporating an off position: no breakdown after application of 500V across the contacts not switch on as a result of variations in ambient temperature (IEC 60335-2-9)		N/A
24.102	Thermal cut-outs incorporated in food dehydrators in order to comply with 19.4 are non-self-resetting (IEC 60335-2-9)		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		P
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
	- pins for insertion into socket-outlets		N/A
	Appliances incorporating an appliance inlet other than those standardized in IEC 60320-1,shall be supplied with a cord set (IEC 60335-2-9)		N/A
25.2	Appliance not provided with more than one means of connection to the supply mains		P
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown		N/A
25.3	Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:		—
	- 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:		—
	- type X attachment		N/A
	- type Y attachment		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- type Z attachment, if allowed in relevant part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment		N/A
25.6	Plugs fitted with only one flexible cord		P
25.7	Supply cords, other than for class III appliances, being one of the following types:		—
	- rubber sheathed (at least 60245 IEC 53)		N/A
	- polychloroprene sheathed (at least 60245 IEC 57)		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		—
	• 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	H05VV-F	P
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords		—
	• 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		—
	• 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
	-supply cord of appliances intended for outdoor use shall be polychloroprene sheathed (IEC 60335-2-9)		N/A

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²)..... :	Max. 8,2 A, 3 x 0,75 mm² (length≤2m), 3x1,0 mm²	P
25.9	Supply cords not in contact with sharp points or edges		P
25.10	Supply cord of class I appliances have a green/yellow core for earthing		P
	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.		N/A
	Where additional neutral conductors are provided in the supply cord:		—
	– 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 alpha numeric 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		P
	the contact pressure is provided by spring terminals		N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure		N/A
25.13	Inlet openings so constructed as to prevent damage to the supply cord		P
	If it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		N/A
	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is		N/A
	class 0, or		N/A
	a class III appliance not containing live parts		N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing		N/A
	Flexing test, as described:		—
	- applied force (N)..... :		N/A
	- number of flexings..... :		N/A
	The test does not result in:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current		N/A
	- breakage of more than 10% of the strands of any conductor		N/A
	- separation of the conductor from its terminal		N/A
	- loosening of any cord guard		N/A
	- damage to the cord or the cord guard		N/A
	- broken strands piercing the insulation and becoming accessible		N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		P
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		P
	Pull and torque test of supply cord:		—
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)..... :		N/A
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)..... :	100 N, 0,35 Nm	P
	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)..... :	100 N, 0,35 Nm	P
	Cord not damaged and max. 2 mm displacement of the cord	Most unfavourable cord displacement: Max. 1,3 mm	P
25.16	Cord anchorages for type X attachments constructed and located so that:		—
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	- at least one part of the cord anchorage securely fixed to the appliance, unless		N/A
	it is part of a specially prepared cord		N/A
	- screws which have to be operated when replacing the cord do not fix any other component, unless		N/A
	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool		N/A
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless		N/A
	failure of the insulation of the cord does not make accessible metal parts live		N/A
	- for class II appliances they are of insulating material, or		N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals		N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Type Y	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		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	P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed:		—
	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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:		—
	- 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 supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:		N/A
	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11		N/A
	- the thickness of the insulation may be reduced		N/A
	- 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.		N/A
	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083		N/A
26	**TERMINALS FOR EXTERNAL CONDUCTORS**		—

IEC 60335-2-9			
Clause	Requirement + Test	Result - Remark	Verdict
26.1	Appliances provided with terminals or equally effective devices 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 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 to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless		N/A
	the connections are soldered		N/A
	Screws and nuts not used to fix any other component, except		N/A
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N/A
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless		N/A
	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint		N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor		N/A
	Terminals fixed so that when the clamping means is tightened or loosened:		—
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm) ..... :		N/A
	No deep or sharp indentations of the conductors		N/A
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and		N/A
	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened		N/A
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard		N/A
	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 (mm^2)..... :		N/A
	If a specially prepared cord is used, terminals need only be suitable for that cord		N/A
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure		N/A
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other		N/A
26.9	Terminals of the pillar type constructed and located as specified		N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless		N/A
	conductors ends fitted with means suitable for screw terminals		N/A
	Pull test of 5 N to the connection		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	Type Y	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
27	**PROVISION FOR EARTHING**		—
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	Class I appliance	P
	Earthing terminals and earthing contacts not connected to the neutral terminal		P
	Class 0, II and III appliances have no provision for protective earthing		N/A
	Class II appliances and class III appliances can incorporate an earth for functional purposes		N/A
	Safety extra-low voltage circuits not earthed, unless		N/A
	protective extra-low voltage circuits		N/A
	No earthing via flexible metal tubes, coiled springs and cord anchorage (IEC 60335-2-9)		N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening		P
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 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
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		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

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Clause	Requirement + Test	Result - Remark	Verdict
	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		P
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal		P
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion		P
	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm		N/A
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		N/A
	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion		N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts		P
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance		N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)..... :	Max. 0,07 Ω	P
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.		N/A
	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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
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		N/A
	Screws of insulating material not used for any electrical connections or connections providing earthing continuity		N/A
	Screws used for electrical connections or connections providing earthing continuity screwed into metal		P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N/A
	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation		N/A
	For screws and nuts; torque-test as specified in table 14 ..... :	(see appended table)	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		P
	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:		—
	• 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

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Clause	Requirement + Test	Result - Remark	Verdict
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread		N/A
	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer		N/A
	Thread-cutting, thread rolling and space threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection:		—
	- in normal use,		N/A
	- during user maintenance,		N/A
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		N/A
	the screw forms a thread having a length of at least half the diameter of the screw		N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity		P
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or		N/A
	if an alternative earthing circuit is provided		N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion		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), Annex J applies:		N/A
	The microenvironment is pollution degree 1 under type 1 protection		N/A
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	These values apply to functional, basic, supplementary and reinforced insulation ..... :		N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless ..... :	(see appended table)	P
	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N/A
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0,5 mm and the impulse voltage test is not applicable		P
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1		N/A
	Impulse voltage test is not applicable:		—
	- when the microenvironment is pollution degree 3, or		P
	- for basic insulation of class 0 and class 01 appliances		N/A
	- to appliances intended for use at altitudes exceeding 2 000 m		N/A
	Appliances are in overvoltage category II		P
	A force of 2 N is applied to bare conductors, other than heating elements		P
	A force of 30 N is applied to accessible surfaces		P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
	The values of table 16 or the impulse voltage test of clause 14 are applicable..... :	(see appended table)	P
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	At the end terminal of heating element	P
	Lacquered conductors of windings considered to be bare conductors		P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16 ..... :	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage ..... :	(see appended table)	P
	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation		P
29.1.4	Clearances for functional insulation are the largest values determined from:		—
	- table 16 based on the rated impulse voltage ..... :	(see appended table)	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		P
	the distances can be affected by wear, distortion, movement of the parts or during assembly		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		P
	However, clearances at crossover points are not measured		P
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:		—
	- table 16 based on the rated impulse voltage ..... :		N/A
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation		N/A
	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation		N/A
	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage		N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree ..... :	(see appended table)	P
	Pollution degree 2 applies, unless		N/A
	- precautions taken to protect the insulation; pollution degree 1	At the end terminals of heating element	P
	- insulation subjected to conductive pollution; pollution degree 3		P
	A force of 2 N is applied to bare conductors, other than heating elements		P
	A force of 30 N is applied to accessible surfaces		P
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		P
	Pollution degree 3 applies, unless the insulation is enclosed or located so that it is unlikely to be exposed to pollution during normal use of the appliance (IEC 60335-2-9)		P
29.2.1	Creepage distances of basic insulation not less than specified in table 17..... :	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17..... :		N/A
	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14 ..... :		N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or ..... :	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable ..... :		N/A
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or..... :	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable ..... :		N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18 ..... :	(see 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, 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		P
	Compliance checked:		—
	- by measurement, in accordance with 29.3.1, or		P
	- by an electric strength test in accordance with 29.3.2, or		N/A
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or		N/A
	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz		N/A
	Requirement not applied to the sheath of a visibly glowing heating element that is inaccessible to test probe 41 of IEC 61032 (IEC 60335-2-9)		N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm		P
	Reinforced insulation have a thickness of at least 2 mm		P
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation		N/A
	Supplementary insulation consist of at least 2 layers		N/A
	Reinforced insulation consist of at least 3 layers		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A
	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out		N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19..... :		N/A
30	**RESISTANCE TO HEAT AND FIRE**		—
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2		P
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)..... :	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Parts supporting live parts tested at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C)..... :	(see appended table)	P
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C) ..... :	(see appended table)	P
	Temperature rises occurring during the test of 19.102 are not taken into account (IEC 60335-2-9)		N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		—
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		P
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		P
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		P
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		P
	For breadmakers, food dehydrators, 30.2.3 applies (IEC 60335-2-9)		N/A
	For hotplates 30.2.3 applies (IEC 60335-2-9)		N/A
	For cookers, ovens, roasters, rotary grills if they incorporate a timer or if their instructions indicate a cooking operation longer than 1h , 30.2.3 applies (IEC 60335-2-9)	Roaster incorporate a timer	P
	For other appliances, 30.2.2 applies (IEC 60335-2-9)		N/A
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C		P
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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, and		N/A
	parts of non-metallic material within a distance of 3mm of such connections,		N/A
	subjected to the glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		—
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	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:		—
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		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:		—
	- 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 Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10 ..... :		N/A
	Glow-wire test not applicable to conditions as specified ..... :		N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		P
	The tests are not applicable to conditions as specified ..... :		N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	(see appended table)	P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P

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Clause	Requirement + Test	Result - Remark	Verdict
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C		P
	Glow-wire applied to an interposed shielding material, if relevant		P
	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, and		P
	parts of non-metallic material within a distance of 3mm,		P
	subjected to glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		—
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	(see appended table)	P
	- 650 °C, for other connections	(See appended table)	P
	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		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		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:		—
	- 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 Annex E, or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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:		—
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		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 Annex E was applied, or		N/A
	- 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:		—
	- 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 Annex E or that comprises 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 Annex E		N/A
	Test not applicable to conditions as specified ..... :	PCB (V-0)	P
31	**RESISTANCE TO RUSTING**		—
	Relevant ferrous parts adequately protected against rusting		P
	For appliances intended for outdoor use, compliance is checked by the salt mist test, Kb of IEC 60068-2-52, severity 2 applicable (IEC 60335-2-9)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Before the test, enclosures having a coating are scratched by means of hardened steel pin (IEC 60335-2-9)		N/A
	After the test, the appliance shall not have deteriorated to such an extent that compliance with this standard, in particular with Clauses 8 and 27, is impaired (IEC 60335-2-9)		N/A
	After the test, the coating shall not be broken and shall not have loosened from the surface (IEC 60335-2-9)		N/A
32	**RADIATION, TOXICITY AND SIMILAR HAZARDS**		—
	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		N/A
A	**ANNEX A (INFORMATIVE) ROUTINE TESTS**		—
	Description of routine tests to be carried out by the manufacturer		P
B	**ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES THAT ARE RECHARGED IN THE APPLIANCE**		—
	No batteries		N/A
C	**ANNEX C (NORMATIVE) AGEING TEST ON MOTORS**		—
	No such motors		N/A
D	**ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS**		—
	No such devices		N/A
E	**ANNEX E (NORMATIVE) NEEDLE-FLAME TEST**		—
	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:		—
7	Severities		—
	The duration of application of the test flame is 30 s ± 1 s		N/A
9	Test procedure		—

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Clause	Requirement + Test	Result - Remark	Verdict
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1		N/A
9.2	The first paragraph does not apply		N/A
	If possible, the flame is applied at least 10 mm from a corner		N/A
9.3	The test is carried out on one specimen		N/A
	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test		N/A
11	Evaluation of test results		—
	The duration of burning not exceeding 30 s		N/A
	However, for printed circuit boards, the duration of burning not exceeding 15 s		N/A
F	**ANNEX F (NORMATIVE) CAPACITORS**		—
	No such capacitors		N/A
G	**ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS**		—
	No such transformer		N/A
H	**ANNEX H (NORMATIVE) SWITCHES**		—
	No such switches		N/A
I	**ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE**		—
	No such motors		N/A
J	**ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS**		—
	No such printed circuit board		N/A
K	**ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES**		—
	The information on overvoltage categories is extracted from IEC 60664-1		P
	Overvoltage category is a numeral defining a transient overvoltage condition		P
	Equipment of overvoltage category IV is for use at the origin of the installation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N/A
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		P
	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies		N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N/A
L	**ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES**		—
	Information for the determination of clearances and creepage distances		P
M	**ANNEX M (NORMATIVE) POLLUTION DEGREE**		—
	The information on pollution degrees is extracted from IEC 60664-1		P
	Pollution		—
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment		P
	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		N/A
	Minimum clearances specified where pollution may be present in the microenvironment		N/A
	Degrees of pollution in the microenvironment		—
	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:		—
	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	At the end terminal of heating element	P
	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected		P
	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow		N/A
N	**ANNEX N (NORMATIVE) PROOF TRACKING TEST**		—
	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:		—
7	Test apparatus		—
7.3	Test solutions		—
	Test solution A is used		P
10	Determination of proof tracking index (PTI)		—
10.1	Procedure		—
	The proof voltage is 100V, 175V, 400V or 600V.. :	175 V	P
	The test is carried out on five specimens		P
	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100		N/A
10.2	Report		—
	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V		N/A
O	**ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30**		—
	Description of tests for determination of resistance to heat and fire		P
P	**ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES**		—
	Not for such use		N/A
Q	**ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS**		—
	Description of tests for appliances incorporating electronic circuits		P
R	**ANNEX R (NORMATIVE) SOFTWARE EVALUATION**		—
	No software		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
S	**ANNEX S (NORMATIVE)** **BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE**		—
	No battery		N/A
T	**ANNEX T (NORMATIVE)** **UV-C RADIATION EFFECT ON NON-METALLIC MATERIALS**		—
	No UV		N/A

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10.1	**TABLE: Power input deviation**				P
Input deviation of/at:	P rated (W)	P measured (W)	dP (W, %)	Required dP (W, %)	Remark
230 V (50 Hz)	1800	1769	-1,7 %	+5 % / -10 %	GLA-901
230 V (60 Hz)	1800	1798	-0,1 %	+5 % / -10 %	GLA-901
230 V (50 Hz)	1800	1760	-2,2 %	+5 % / -10 %	GLA-902
230 V (60 Hz)	1800	1774	-1,4 %	+5 % / -10 %	GLA-902
230 V (50 Hz)	1800	1755	-1,4 %	+5 % / -10 %	GLA-905
230 V (60 Hz)	1800	1751	-1,6 %	+5 % / -10 %	GLA-905
230 V (50 Hz)	1800	1824	+1,3 %	+5 % / -10 %	GLA-906
230 V (60 Hz)	1800	1810	+0,6 %	+5 % / -10 %	GLA-906
230 V (50 Hz)	1400	1320	-5,7 %	+5 % / -10 %	GLA-617
230 V (60 Hz)	1400	1315	-6,1 %	+5 % / -10 %	GLA-617
230 V (50 Hz)	1400	1332	-4,9 %	+5 % / -10 %	GLA-618
230 V (60 Hz)	1400	1330	-5,0 %	+5 % / -10 %	GLA-618

10.2	**TABLE: Current deviation**				N/A
Current deviation of/at:	**I rated (A)**	**I measured (A)**	**Δ I**	**Required Δ I**	**Remark**

11.8(1)	**TABLE: Heating test, thermocouple measurements (GLA-901)**		P
	Test voltage (V)	1,15 x $(240/230)^2$ x 1800 = 2253,9 W 259,1 V	—
	Ambient (°C)	T1=23,6 °C, T2=23,2 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Supply cord insulation	22,8	50
Test corner	6,8	65
Fan motor bobbin / winding	50,1	Clause 30.1/ 140(Class180)
Internal wire for thermal link	61,3	175(T200-25)
Motor lead wire	47,2	175(T200-25)
Internal wire for micro switch	39,1	175(T200-25)
Ambient of micro switch	41,7	100(T125-25)
Ambient of thermal link / silicon tube	64,8	For reference/ 175(T200-25)
Ambient of timer	27,3	100(T125-25)

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Ambient of thermostat	36,5	120(T145-25)
Centre of container	161,5	For reference
Top cover	35,7	Clause 30.1
Plastic enclosure	40,2	Clause 30.1
Internal enclosure	147,4	Clause 30.1
Air-out grille	50,3	Clause 30.1
Bottom cover	25,5	Clause 30.1
Handle of container	15,5	35
Indicator cover	22,6	Clause 30.1
Thermostat / timer knob	13,4	35 and Clause 30.1

11.8(1)	**TABLE: Heating test, resistance method (GLA-901)**				P
	Test voltage (V)	259,1 V			—
	Ambient (°C)	T1=23,6 °C, T2=23,2 °C			—
Temperature rise of winding	R_1 (Ω)	R_2 (Ω)	dT (K)	Max. dT (K)	Insulation class
Motor winding	124,7	151,6	56,1	140	180

11.8(2)	**TABLE: Heating test, thermocouple measurements (GLA-902)**		P
	Test voltage (V)	1,15 x $(240/230)^2$ x 1800 = 2253,9 W 258,5 V	—
	Ambient (°C)	T1=24,3 °C, T2=24,3 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Supply cord insulation	24,9	50	
Test corner	17,7	65	
Fan motor bobbin / winding	47,7	Clause 30.1/ 140(Class 180)	
Internal wire for thermal link	74,8	175(T200-25)	
NTC lead wire	40,0	175(T200-25)	
Motor lead wire	46,2	175(T200-25)	
Internal wire for micro switch	47,7	175(T200-25)	
Ambient of micro switch	49,2	100(T125-25)	
PCB lead wire	41,7	55(T80-25)	
Ambient of thermal link / silicon tube	78,9	For reference/ 175(T200-25)	

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Centre of container	147,5	For reference
PCB	38,6	120
X2 capacitor	36,5	75(T100-25)
Relay	39,6	60(T85-25)
Top cover	37,6	Clause 30.1
Control panel	13,2	60 and Clause 30.1
Plastic enclosure	21,7	Clause 30.1
Internal enclosure	140,3	Clause 30.1
Air-out grille	49,0	Clause 30.1
Bottom cover	27,7	Clause 30.1
Handle of container	16,0	60

11.8(2)	**TABLE: Heating test, resistance method (GLA-902)**					P
	Test voltage (V)	258,5 V				—
	Ambient (°C)	T1=23,6 °C, T2=24,3 °C				—
Temperature rise of winding		R_1 (Ω)	R_2 (Ω)	dT (K)	Max. dT (K)	Insulation class
Motor winding		124,7	152,4	56,6	140	180

11.8(3)	**TABLE: Heating test, thermocouple measurements (GLA-905)**		P
	Test voltage (V)	1,15 x (240/230)^2 x 1800 = 2253,9 W 261,4 V	—
	Ambient (°C)	T1=21,6 °C, T2=21,8 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Timer knob		12,5	60
Thermostat knob		12,8	60

11.8(4)	**TABLE: Heating test, thermocouple measurements (GLA-906)**		P
	Test voltage (V)	1,15 x (240/230)^2 x 1800 = 2253,9 W 256,1 V	—
	Ambient (°C)	T1=21,8 °C, T2=21,5 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Control panel and with 5 mm surrounding		27,8	60

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11.8(5)	TABLE: Heating test, thermocouple measurements (GLA-617)		P
	Test voltage (V)	1,15 x (240/230)^2 x 1400 = 1753,0 W 264,7 V	—
	Ambient (°C)	T1=24,1 °C, T2=23,6 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Supply cord insulation	34,8	50
Test corner	26,8	65
Fan motor bobbin / winding	51,0	Ref./ 140(Class180)
Internal wire for thermal link	47,7	155(T180-25)
Motor lead wire	43,7	175(T200-25)
Internal wire for micro switch	49,7	155(T180-25)
Ambient of micro switch	40,8	100(T125-25)
Ambient of thermal link / silicon tube	62,7	For reference/ 175(T200-25)
Ambient of timer	28,9	100(T125-25)
Ambient of thermostat	69,1	120(T145-25)
Centre of container	152,9	For reference
Top cover	27,9	Ref.
Plastic enclosure	28,9	Ref.
Internal enclosure	140,1	Clause 30.1
Air-out grille	35,0	Ref.
Bottom cover	40,5	Ref.
Handle of container	19,1	35
Indicator cover	20,5	For reference
Thermostat / timer knob	6,3	35

11.8(5)	TABLE: Heating test, resistance method (GLA-617, with motor YJF61/20)		P
	Test voltage (V)	264,7 V	—
	Ambient (°C)	T1=24,1 °C, T2=23,6 °C	—

Temperature rise of winding	R_1 (Ω)	R_2 (Ω)	dT (K)	Max. dT (K)	Insulation class
Motor winding	165,5	202,7	58,6	140	180

11.8(6)	TABLE: Heating test, thermocouple measurements (GLA-618)	P

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	Test voltage (V)	1,15 x (240/230)^2 x 1400 = 1753,0 W 265,1 V	—
	Ambient (°C)	T1=24,4 °C, T2=24,3 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Supply cord insulation	39,6	50
Test corner	22,5	65
Fan motor bobbin / winding	65,8	Ref./ 140(Class 180)
Internal wire for thermal link	47,0	155(T180-25)
NTC lead wire	59,1	175(T200-25)
Motor lead wire	56,6	175(T200-25)
Internal wire for micro switch	45,2	155(T180-25)
Ambient of micro switch	37,4	100(T125-25)
PCB lead wire	41,1	55(T80-25)
Ambient of thermal link / silicon tube	83,7	For reference/ 175(T200-25)
Centre of container	161,6	For reference
PCB	43,7	120
X2 capacitor	37,9	75(T100-25)
Relay	37,3	60(T85-25)
Top cover	32,2	Clause 30.1
Control panel	31,5	60
Plastic enclosure	31,2	Ref.
Internal enclosure	101,8	Clause 30.1
Air-out grille	42,8	Ref.
Bottom cover	42,0	Ref.
Handle of container	21,7	35

11.8(6)	**TABLE: Heating test, resistance method (GLA-618, with motor YJF61/20)**					P
	Test voltage (V)	265,1 V				—
	Ambient (°C)	T1=24,1 °C, T2=23,6 °C				—
Temperature rise of winding		R_1 (Ω)	R_2 (Ω)	dT (K)	Max. dT (K)	Insulation class
Motor winding		165,5	213,9	76,1	140	180

11.8(7)	**TABLE: Heating test, thermocouple measurements (GLA-501)**	P

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	Test voltage (V)	1,15 x (240/230)^2 x 1800 = 2253,9 W 256,5 V	—
	Ambient (°C).....	T1=23,9 °C, T2=22,6 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Handle of container	3,1	35
Thermostat / timer knob	7,5	60

11.8(8)	**TABLE: Heating test, thermocouple measurements (GLA-502)**		P
	Test voltage (V)	1,15 x (240/230)^2 x 1800 = 2253,9 W 256,5 V	—
	Ambient (°C).....	T1=23,9 °C, T2=22,6 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Supply cord insulation	18,0	50
Test corner	15,9	65
Fan motor bobbin / winding	62,1	Ref./ 140(Class 180)
Internal wire for thermal link	72,3	155(T180-25)
NTC lead wire	51,9	175(T200-25)
Motor lead wire	65,8	175(T200-25)
Internal wire for micro switch	21,0	155(T180-25)
Ambient of micro switch	34,7	100(T125-25)
PCB lead wire	45,5	80(T105-25)
Ambient of thermal link / silicon tube	126,5	For reference/ 175(T200-25)
Centre of container	161,6	For reference
PCB	44,0	120
X2 capacitor	39,4	75(T100-25)
Relay	39,9	60(T85-25)
Top cover	26,8	Ref.
Control panel	16,0	60
Plastic enclosure	42,9	Ref.
Internal enclosure	128,8	Clause 30.1
Air-out grille	43,3	Ref.
Bottom cover	18,4	Ref.
Handle of container	7,4	35

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11.8(8)	TABLE: Heating test, resistance method (GLA-502, with motor YJ62H-20)					P
	Test voltage (V)		265,1 V			—
	Ambient (°C)		T1=23,9 °C, T2=22,6 °C			—
Temperature rise of winding	R_1 (Ω)	R_2 (Ω)	dT (K)	Max. dT (K)	Insulation class	
Motor winding	114,1	145,7	72,9	140	180	

11.8(9)	TABLE: Heating test, thermocouple measurements (GLA-305)		P
	Test voltage (V)	1,15 x (240/230)^2 x 1400 = 1753,0 W 265,9 V	—
	Ambient (°C)	T1=24,2 °C, T2=24,8 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Thermostat knob / timer knob (metal part)	7,3	35	
Thermostat knob / timer knob (plastic part)	5,9	60	

11.8(10)	TABLE: Heating test, thermocouple measurements (GLA-306)		P
	Test voltage (V)	1,15 x (240/230)^2 x 1400 = 1753,0 W 262,8 V	—
	Ambient (°C)	T1=24,5 °C, T2=24,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Control panel and with 5 mm surrounding	6,5	60	

11.8(11)	TABLE: Heating test, thermocouple measurements (GLA-502A)		P
	Test voltage (V)	1,15 x (240/230)^2 x 1800 = 2253,9 W 257,3 V	—
	Ambient (°C)	T1=24,1 °C, T2=24,5 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Control panel and with 5 mm surrounding	10,9	60	

11.105(1)	TABLE: Heating test, thermocouple measurements (GLA-905)		P
	Test voltage (V) ..... :	241,7 V	—
	Ambient (°C) ..... :	T1=21,8 °C, T2=21,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	

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Plastic enclosure	43,6	65
Metal enclosure	28,7	45

11.105(2)	TABLE: Heating test, thermocouple measurements (GLA-906)		P
	Test voltage (V) .... :	239,4	—
	Ambient (°C) ..... :	T1=21,2 °C, T2=21,5 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		46,2	65
Metal enclosure		29,8	45

11.105(3)	TABLE: Heating test, thermocouple measurements (GLA-901)		P
	Test voltage (V) .... :	242,7 V	—
	Ambient (°C) ..... :	T1=24,4 °C, T2=24,3 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		33,6	65
Metal enclosure		21,9	45

11.105(4)	TABLE: Heating test, thermocouple measurements (GLA-902)		P
	Test voltage (V) .... :	243,3 V	—
	Ambient (°C) ..... :	T1=23,1 °C, T2=23,2 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		47,0	65
Metal enclosure		28,4	45

11.105(5)	TABLE: Heating test, thermocouple measurements (GLA-501)		P
	Test voltage (V) ..... :	242,0 V	—
	Ambient (°C) ..... :	T1=24,3 °C, T2=224,8 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		24,3	65

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Metal enclosure	22,9	45

11.105(6)	TABLE: Heating test, thermocouple measurements (GLA-502)		P
	Test voltage (V) ..... :	242,0	—
	Ambient (°C) ..... :	T1=22,3 °C, T2=24,8 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		37,3	65
Metal enclosure		34,9	45

11.105(7)	TABLE: Heating test, thermocouple measurements (GLA-617)		P
	Test voltage (V) ..... :	247,3	—
	Ambient (°C) ..... :	T1=24,5 °C, T2=24,6 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		22,2	65
Metal enclosure		33,1	45

11.105(8)	TABLE: Heating test, thermocouple measurements (GLA-618)		P
	Test voltage (V) ..... :	249,4	—
	Ambient (°C) ..... :	T1=24,5 °C, T2=24,5 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		41,3	65
Metal enclosure		38,4	45

11.105(9)	TABLE: Heating test, thermocouple measurements (GLA-305)		P
	Test voltage (V) ..... :	248,7	—
	Ambient (°C) ..... :	T1=24,1 °C, T2=24,1 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure		30,8	65
Metal enclosure		27,6	45

11.105(10)	TABLE: Heating test, thermocouple measurements (GLA-306)		P
	Test voltage (V) ..... :	245,9	—

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	Ambient (°C).....:	T1=23,7 °C, T2=23,2 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	37,8	65
Metal enclosure	18,7	45

11.105(11)	**TABLE: Heating test, thermocouple measurements (GLA-505)**		P
	Test voltage (V).....:	242,3 V	—
	Ambient (°C).....:	T1=21,7 °C, T2=22,1 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	54,0	65
Metal enclosure	41,7	45

11.105(12)	**TABLE: Heating test, thermocouple measurements (GLA-506)**		P
	Test voltage (V).....:	239,3	—
	Ambient (°C).....:	T1=21,4 °C, T2=21,0 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	50,1	65
Metal enclosure	43,1	45

11.105(13)	**TABLE: Heating test, thermocouple measurements (GLA-309)**		P
	Test voltage (V).....:	246,1	—
	Ambient (°C).....:	T1=20,4 °C, T2=20,6 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	50,2	65
Metal enclosure	40,5	45

11.105(14)	**TABLE: Heating test, thermocouple measurements (GLA-310)**		P
	Test voltage (V).....:	244,8	—
	Ambient (°C).....:	T1=19,6 °C, T2=19,8 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	41,6	65

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Metal enclosure	38,3	45

11.105(15)	**TABLE: Heating test, thermocouple measurements (GLA-531)**		P
	Test voltage (V) ..... :	235,0	—
	Ambient (°C) ..... :	T1=23,0 °C, T2=23,0 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	34,4	65
Metal enclosure	39,8	45

11.105(16)	**TABLE: Heating test, thermocouple measurements (GLA-532)**		P
	Test voltage (V) ..... :	235,7	—
	Ambient (°C) ..... :	T1=21,8 °C, T2=22,1 °C	—

Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Plastic enclosure	35,3	65
Metal enclosure	34,3	45

13.2	**TABLE: Leakage current**		P
	Heating appliances: 1.15 x rated input (W) ..... :	1,15 x (240/230)^2 x 1800 = 2253,9 W	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V) ..... :	—	—

Leakage current between	I (mA)	Max. allowed I (mA)
Between L/N and accessible plastic parts (GLA-901)	0,02	0,35 peak
Between L/N and accessible earthed metal parts (GLA-901)	0,08	0,75
Between L/N and accessible plastic parts (GLA-902)	0,02	0,35 peak
Between L/N and accessible earthed metal parts (GLA-902)	0,08	0,75
Between L/N and accessible plastic parts (GLA-905)	0,01	0,35 peak
Between L/N and accessible earthed metal parts (GLA-905)	0,02	0,75
Between L/N and accessible plastic parts (GLA-906)	0,01	0,35 peak
Between L/N and accessible earthed metal parts (GLA-906)	0,01	0,75
Between L/N and accessible plastic parts (GLA-501)	0,01	0,35 peak
Between L/N and accessible earthed metal parts (GLA-501)	0,02	0,75
Between L/N and accessible plastic parts (GLA-502)	0,01	0,35 peak
Between L/N and accessible earthed metal parts (GLA-502)	0,03	0,75

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13.2	**TABLE: Leakage current**		P
	Heating appliances: 1.15 x rated input (W) ..... :	1,15 x $(240/230)^2$ x 1400 =1753 W	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V) ..... :	—	—

Leakage current between	I (mA)	Max. allowed I (mA)
Between L/N and accessible plastic parts (GLA-617)	0,01	0,35 peak
Between L/N and accessible earthed metal parts (GLA-617)	0,02	0,75
Between L/N and accessible plastic parts (GLA-618)	0,01	0,35 peak
Between L/N and accessible earthed metal parts (GLA-618)	0,03	0,75

13.3	**TABLE: Electric strength** (for all the models above)	P

Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
Between L/N and accessible earthed metal parts	1000	No
Between internal wire and accessible plastic parts	1750	No
Between L/N and accessible plastic parts	3000	No

14	**TABLE: Transient overvoltages**				N/A
Clearance between:	**Cl (mm)**	**Required Cl (mm)**	**Rated impulse voltage (V)**	**Impulse test voltage (V)**	**Flashover (Yes/No)**

16.2	**TABLE: Leakage current**		P
	Single phase appliances: 1.06 x rated voltage (V).....:	1,06x240=254,4 V	—
	Three phase appliances 1.06 x rated voltage divided by √3 (V).....:	--	—

Leakage current between	**I (mA)**	**Max. allowed I (mA)**
Between L/N and accessible plastic parts (GLA-901)	0,03	0,25
Between L/N and accessible earthed metal parts (GLA-901)	0,09	0,75
Between L/N and accessible plastic parts (GLA-902)	0,03	0,25
Between L/N and accessible earthed metal parts (GLA-902)	0,08	0,75

16.3	**TABLE: Dielectric strength (GLA-901, GLA-902)**		P
Test voltage applied between:		**Test potential applied (V)**	**Breakdown / flashover (Yes/No)**
Between L/N and accessible earthed metal parts		1250	No

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Between internal wire and accessible plastic parts	1750	No
Between L/N and accessible plastic parts	3000	No
Between supply cord and accessible metal parts	1250	No

17	TABLE: Overload protection	N/A

Thermocouple locations	Max. temperature rise measured, T (°C)	Max. temperature rise limit, T (°C)

17	TABLE: Overload protection, resistance method					N/A
	Test voltage (V)..... :	—				—
	Ambient, t1 (°C) ..... :	—				—
	Ambient, t2 (°C) ..... :	—				—
Temperature of winding	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)	

19	Abnormal operation conditions	P

Operational characteristics	YES/NO	Operational conditions
Are there electronic circuits to control the appliance operation?	Yes	Control the appliance operation
Are there “off” or “stand-by” position?	Yes	Stand-by
The unintended operation of the appliance results in dangerous malfunction?	Yes	No unintended operation of the appliance

Sub-clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	0,85 times rated power input	No hazard	N/A	N/A	N/A	N/A	P
19.3	1,24 times rated power input	No hazard	N/A	N/A	N/A	N/A	P
19.4	Thermostat short-circuited, 1,15 times rated power input	No hazard	N/A	N/A	N/A	N/A	P
19.5	Controls are not short-	Covered by clause 11.8	N/A	N/A	N/A	N/A	P

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	circuited but one end of the element is connected to the sheath of the heating element.	and 19.4					
19.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.7	Rated voltage 240 V	No hazard	N/A	N/A	N/A	N/A	P
19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.11.2	Rated voltage 240 V	No hazard	N/A	N/A	N/A	N/A	P
19.11.4	Rated voltage 240 V	No hazard	N/A	P	N/A	N/A	P
19.10X	N/A	N/A	N/A	N/A	N/A	N/A	N/A

19.7(1)	**TABLE: Abnormal operation, locked rotor/moving parts GLA-618**				P
	Test voltage (V).....:	240			—
	Ambient, t1 (°C) .....:	24,4			—
	Ambient, t2 (°C) .....:	24,5			—
Temperature of winding	**R1 (Ω)**	**R2 (Ω)**	**T (°C)**	**Max. T (°C)**	
Fan motor winding	161,4	224,5	125,6	210	

19.7(2)	**TABLE: Abnormal operation, locked rotor/moving parts GLA-502**				P
	Test voltage (V).....:	240			—
	Ambient, t1 (°C) .....:	23,9			—
	Ambient, t2 (°C) .....:	23,6			—
Temperature of winding	**R1 (Ω)**	**R2 (Ω)**	**T (°C)**	**Max. T (°C)**	
Fan motor winding	114,1	165,5	140,3	210	

19.9	**TABLE: Abnormal operation, running overload**		N/A
	Test voltage (V) .....:	--	—
	Ambient, t1 (°C) .....:	--	—
	Ambient, t2 (°C) .....:	--	—

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Temperature of winding	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)

19.13 (1)	TABLE: Abnormal operation, temperature rises (GLA-901)				P
Parts measured	**Max. temperature rise measured, Δ T (K)**				**Max. temperature rise limit, Δ T (K)**
	19.2	**19.3**	**19.4**	**19.7**	
Supply cord insulation	22,3	24,7	40,9	18,8	150
Test corner	7,3	9,1	8,3	12,8	150
Plastic enclosure	52,6	54,5	--	40,3	Clause 30.1
Air-out grille	49,1	52,6	--	11,8	Clause 30.1
Indicator cover	19,7	29,2	--	21,6	Clause 30.1
Thermostat / timer knob	12,6	14,2	--	15,7	Clause 30.1
Bottom cover	26,1	28,7	--	19,8	Clause 30.1
Top cover	45,2	48,6	--	61,3	Clause 30.1
Internal enclosure	139,3	146,5	--	133,7	Clause 30.1
Fan motor winding	81,5 °C	84,8 °C	117,0 °C	135,1 °C	210 °C (Class 180)

19.13 (2)	TABLE: Abnormal operation, temperature rises (GLA-902)			P
Parts measured	**Max. temperature rise measured, Δ T (K)**			**Max. temperature rise limit, Δ T (K)**
	19.2	**19.3**	**19.7**	
Supply cord insulation	28,0	30,6	15,3	150
Test corner	6,9	8,6	4,6	150
Plastic enclosure	94,2	99,5	53,4	Clause 30.1
Air-out grille	100,7	106,3	56,7	Clause 30.1
Control panel	23,7	34,6	20,6	Clause 30.1
Bottom cover	28,3	30,9	16,6	Clause 30.1
Top cover	73,6	78,0	84,6	Clause 30.1
Internal enclosure	155,4	163,3	101,4	Clause 30.1
Fan motor winding	107,4 °C	111,9 °C	124,7 °C	260 °C (Class 180)

19.13 (1)	TABLE: Abnormal operation, temperature rises (GLA-617)				P
Parts measured	**Max. temperature rise measured, Δ T (K)**				**Max. temperature rise limit, Δ T (K)**
	19.2	**19.3**	**19.4**	**19.7**	
Supply cord insulation	31,9	33,0	35,2	16,7	150
Test corner	26,5	31,6	12,1	10,8	150

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Plastic enclosure	22,4	24,2	--	19,7	Ref.
Air-out grille	31,9	31,8	--	27,7	Ref.
Indicator cover	29,4	27,1	--	32,5	Ref.
Thermostat / timer knob	5,5	5,4	--	6,0	Ref.
Bottom cover	38,9	40,0	--	22,3	Ref.
Top cover	28,1	28,5	--	31,1	Ref.
Internal enclosure	94,4	139,7	--	86,2	Clause 30.1
Fan motor winding	78,1 °C	82,5 °C	108,9 °C	144,3°C	210 °C (Class 180)

19.13 (2)	TABLE: Abnormal operation, temperature rises (GLA-618)	P

Parts measured	Max. temperature rise measured, Δ T (K)			Max. temperature rise limit, Δ T (K)
	19.2	19.3	19.7	
Supply cord insulation	45,1	38,3	52,9	150
Test corner	19,2	17,2	17,5	150
Plastic enclosure	51,7	44,8	24,0	Ref.
Air-out grille	91,5	63,8	117,6	Ref.
Control panel	40,9	48,7	25,9	Ref.
Bottom cover	55,5	48,9	53,9	Ref.
Top cover	37,5	47,2	34,3	Ref.
Internal enclosure	192,8	204,6	210,0	Clause 30.1
Fan motor winding	111,3 °C	104,9 °C	120,0 °C	210 °C (Class 180)

19.13 (3)	TABLE: Abnormal operation, temperature rises (GLA-502)	P

Parts measured	Max. temperature rise measured, Δ T (K)			Max. temperature rise limit, Δ T (K)
	19.2	19.3	19.7	
Supply cord insulation	16,5	15,4	20,7	150
Test corner	11,4	13,5	12,9	150
Plastic enclosure	38,1	33,3	33,5	Ref.
Air-out grille	52,7	44,5	58,6	Ref.
Control panel	5,1	7,3	9,4	Ref.
Bottom cover	15,7	18,4	26,6	Ref.
Top cover	32,3	30,5	33,5	Ref.
Internal enclosure	186,4	200,5	208,9	Clause 30.1
Fan motor winding	96,4°C	98,4°C	133,4°C	210 °C (Class 180)

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21.1	TABLE: Impact resistance			P
Impacts per surface	**Surface tested**	**Impact energy (Nm)**	**Comments**	
3	Enclosure	0,5	P	
3	Bottom cover	0,5	P	
3	Top cover	0,5	P	
3	Air-out grille	0,5	P	
3	Control panel	0,5	P	
3	Timer knob / thermostat knob	0,5	P	

24.1	TABLE: Components				P
Object / part No.	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity**
Plug	Ningbo Huashun Electronics Co., Ltd.	GH-003	250 V~, 16 A, 2P+E	DIN VDE 0620-2-1 IEC 60884-1	VDE* (40018215)
(Alternative)	Yuyao Anlian Eletronics Science & Technology Co., Ltd	AL-13	250 V ~, 16 A, 2P+E	DIN VDE 0620-2-1 IEC 60884-1	VDE* (40028609)
(Alternative) (only for Australia)	Ningbo Qiaopu Electric Co., Ltd.	D06	250 V ~, 10 A, 2P+E	AS/NZS 3112 (2012)	Queensland* (ESO170126)
(Alternative) (only for Australia)	Ningbo Qiaopu Electric Co., Ltd.	D06	250 V ~, 10 A, 2P+E	AS/NZS 3112 (2012)	SAA* (SAA-170389-EA)
(Alternative) (BS Plug)	Shaoxing Jintao Electron Co., Ltd	JT006A	250 V ~, 13 A, 2P+E	BS 1363-1	ASTA * (1120)
(Alternative) (BS Plug)	Yuyao Haolin Electric Co., Ltd	HL7-1	250 V ~, 13 A, 2P+E	BS 1363-1	ASTA * (1254)
(Alternative) (BS Plug)	Yuyao Anlian Electronics Science & Technology Co., Ltd	AL-82 AL-82A	250 V ~, 13 A, 2P+E	BS 1363-1	ASTA* (1037)
(Alternative) (BS Plug)	Ningbo Xuanhua Electric Appliance Co., Ltd	XH031A XH031B XH031C	250 V ~, 13 A, 2P+E	BS 1363-1	ASTA * (1118)
Supply cord (for all models)	Ningbo Huashun Electronics Co., Ltd.	H05VV-F 60227 IEC 53	3x0,75 mm² (length≤2 m) 3x1,0 mm²	EN 50525-2-11 IEC 60227-5	VDE* (136939)
(Alternative)	Shangyu Jintao Electron Co., Ltd.	H05VV-F 60227 IEC 53		EN 50525-2-11 IEC 60227-5	VDE* (40013419)

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(Alternative)	Yuyao Anlian Eletronics Science & Technology Co., Ltd	H05VV-F 60227 IEC 53		EN 50525-2-11 IEC 60227-5	VDE* (40028609)
(Alternative) (only for Australia)	Ningbo Qiaopu Electric Co., Ltd.	H05VV-F 60227 IEC 53		AS/NZS 3191 (2008)	NSW* (18298)
Internal wire	Dongguan Nistar Transmitting Technology Co., Inc.	3122	300 V~, 200 °C, 18-22 AWG	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 ANSI/UL 758	UL* (E214184) + tested with appliance
(Alternative)	Jiangsu Yida Special Cable Co., Ltd.	3122	300 V~, 18-22 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 ANSI/UL 758	UL* (E476075) + tested with appliance
(Alternative)	Cixi Shuanghong Wire Co., Ltd.	3122	300 V~, 18-22 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 ANSI/UL 758	UL* (E333296) + tested with appliance
(Alternative)	Cixi Shuanghong Wire Co., Ltd.	H05SJ-K	0,5-0,75 mm^2 T180	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 DIN VDE 0282-3	VDE* (40017324) +Tested with appliance
(Alternative)	Jiangsu Yida Special Cable and Wire Co., Ltd.	H05SJ-K	0,5-0,75 mm^2 T180	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 DIN VDE 0282-3	VDE* (40044562) +Tested with appliance
Thermostat (for All mechanical types)	Changzhou HDV Electrical Appliance Co., Ltd.	WY300C-I	250 V ~, 16 A, 1E5, T145, Tfmax: 200°C	IEC 60730-1 EN 60730-1 IEC 60730-2-9 EN 60730-2-9	VDE* (40033354)
(Alternative)	Changzhou Foland Electrical Appliance Co., Ltd.	WY300Q-C	400 V~, 16 A, 1E5, T150, Tfmax: 200°C	IEC 60730-1 EN 60730-1 IEC 60730-2-9 EN 60730-2-9	VDE* (40024291)
Thermal link (for all the models except for GLA-617 GLA-618)	Aupo Electronics Ltd.	BF192	250 V~,10 A, Tf=192 °C	IEC 60691 EN 60691	VDE* (40005418)
Thermal link (only for GLA-617 GLA-618)	Aupo Electronics Ltd.	BF172	250 V~,10 A, Tf=172 °C	IEC 60691 EN 60691	VDE* (40005418)
Micro switch	Yueqing Tongda Wire Electric Factory	HK-14	250 V, 16 (3) A, 5E4, T125	IEC 61058 EN 61058-1	VDE* (40027032)

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Timer (for GLA-901, GLA-905, GLA-305, GLA-307, GLA-309, GLA-331, GLA-501, GLA-505, GLA-531)	Hangzhou Guanzuan Electrical Appliance Co., Ltd.	DKJ/1-60	250 V ~, 16 A, 1E4, 10T125	IEC 60730-1 EN 60730-1 IEC 60730-2-7 EN 60730-2-7	VDE* (126656)
(Alternative) (for GLA-617)	Hangzhou Guanzuan Electrical Appliance Co., Ltd.	DKJ/1-30	250 V ~, 16 A, 1E4, 10T125	IEC 60730-1 EN 60730-1 IEC 60730-2-7 EN 60730-2-7	VDE* (126656)
(Alternative) (for GLA-617)	Jiangsu Shalong Mechanical & Electrical Technology Co., Ltd	SL-30B	AC120 V~; 15 A; T120;	IEC 60730-1 EN 60730-1 IEC 60730-2-7 EN 60730-2-7	VDE* (R 50024942)
Heating element (For GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-901, GLA-902, GLA-905, GLA-906)		ZH	Marked with “230 V, 1800 W”, tested at 220 V-240V, 1800 W	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Heating element (For GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-617, GLA-618)		ZH	Marked with “230 V, 1400 W”, tested at 220 V-240 V, 1400 W	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Fan motor	Shenzhen Zhaoli Motor Ltd.	YJ62H-20	220-240 V, 50/60 Hz, 33 W, Class H	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
(Alternative)	Changzhou W&W Motor Co., Ltd.	YJF61/20	AC230 V, 50/60 Hz, 37 W, Class 180, tested at 220V-240V	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
-Motor winding	Jiangyin Double Feather Cable Co., Ltd.	QZY-1/180	Class 180	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 1446	UL* (E320132) + tested with appliance
(Alternative)	Jiangsu Hongliu magnet wire technology Co., Ltd	QA-x/180	Class 180	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 1446	UL* (E335065)+ tested with appliance

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-Motor bobbin	Solvay Engineering Plastics GBU	C 50H2	V-0	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	UL* (E44716) + tested with appliance
Thermal motor protector	Xiamen Set Electronics Co., Ltd.	K7	250 V~, 2 A Tf150 °C, T200	IEC 60691 EN 60691	VDE* (40017055)
Motor lead wire	Qifurui Electronics Company	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E211048) + tested with appliance
(Alternative)	Zhongshan hualan Electric Co., Ltd	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E303124) + tested with appliance
(Alternative)	Qifurui Electronics Company	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E211048) + tested with appliance
(Alternative)	Dongguan Worldful Electric Wire	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E317806) + tested with appliance
(Alternative)	Shenzhen Mysun Insulation Material Co., Ltd.	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E239689) + tested with appliance
(Alternative)	Jiangyin Haocheng Electric Appliance Wire & Cable MFG Co., Ltd.	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E227587) + tested with appliance
(Alternative)	Jiangyin City Tiancheng Electronic & Cable Co., Ltd.	3122	300 V~, 20 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL* (E332921) + tested with appliance
PCB assembly (for GLA-902, GLA-906, GLA-306, GLA-308, GLA-308A, GLA-310, GLA-332, GLA-532, GLA-502, GLA-502A, GLA-506, GLA-618)					
-PCB	Jiangsu Sunyuan Aerospace Material Co., Ltd.	FR-4.0	V-0, Min thickness: 1,5 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 94	UL* (E214321) + tested with appliance

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(Alternative)	Wenzhou Hengxing Electronics Co., Ltd.	HX-1	V-0, Min thickness: 1,5 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 94	UL* (E254930) + tested with appliance
(Alternative)	Wenzhou Huabang Electronics Co., Ltd.	H-01	V-0, Min thickness: 1,5 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 94	UL* (E251053) + tested with appliance
-PCB lead wire	Yueqing Boyuan Electronic Wire & Cable Co., Ltd.	1569	300 V, 18-26 AWG, 105 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL * (E203561) + tested with appliance
(Alternative)	Zhejiang Xinxin Electronic Wire Rod Co., Ltd	2468	300 V, 18-26 AWG, 80 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL * (E203561) + tested with appliance
-NTC lead wire	Zhongshan Yixin Electrical Co., Ltd.	1332	300 V, 24 AWG, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 758	UL * (E351034) + tested with appliance
-Fuse	XC Electronics (Shen Zhen) Corp. Ltd.	3T-serie(s)	250 V ~, 3,15 A	IEC 60127-1 EN 60127-1 IEC 60127-3 EN 60127-3	VDE* (40019614)
-Varistor	Lien Shun Electronics Co., Ltd.	10D471K	AC 2500 V, T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE * (40005858)
(Alternative)	Hongzhi Enterprises Ltd.	10D471K	AC 2500 V, T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE* (40008621)
(Alternative)	Zhejiang Huang-Yan Sailing Electronics Co., Ltd.	MYG07K471	AC 2500 V, T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE * (40011765)
-X2 capacitor	Tenta Electric Industrial Co., Ltd.	MEX	275 V AC, 0,1 uF, 40/100/21/C	IEC 60384-14 EN 60384-14	VDE* (119119)
(Alternative)	Dain Electronics Co., Ltd.	MEX, MPX	275VAC, 0,1 uF, 40/110/21/C	IEC 60384-14 EN 60384-14	VDE* (40018798)
-Relay (for original main PCB)	Ningbo Hui Long Cang Electronics Co., Ltd.	922-12VDC-SL-A	250 V AC, 15 A, T85, 2E4	IEC 61810-1 EN 61810-1	TUV* (R 50156096)
(Alternative)	Dongguan Sanyou Electrical Appliances Co., Ltd.	SRDI-S-112DM	250 V AC, 12 A, T105, 5E4	IEC 61810-1 EN 61810-1	VDE* (40034479)

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(Alternative)	Ningbo Tianbo Ganglian Electronics Co., Ltd.	HJR-21FF-S-H	240 V AC, 12 A, T85, 1E5	IEC 61810-1 EN 61810-1	TUV* (R 50116165)
(Alternative) (for new main PCB)	Ningbo Hui Long Cang Electronics Co., Ltd.	922-5VDC-SL-A	250 V AC, 15 A, T85, 2E4	IEC 61810-1 EN 61810-1	TUV* (R 50156096)
(Alternative)	Ningbo Tianbo Ganglian Electronics Co., Ltd.	HJR-21FF-S-H	240 V AC, 12 A, T85, 1E5	IEC 61810-1 EN 61810-1	TUV* (R 50116165)
Silicon tube	Jiangyin Zhijun Appliance Electric Cable & Wire Co., Ltd.	HST*	600 V~, 200 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 1441	UL* (E302890) + tested with appliance
Tube cover	Shenzhen Woer Hear-Shrinkable Material Co., Ltd.	Tested with appliance	Category to heat and fire: 750 °C and 850 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Crimped connector	Heavy Power CO., Ltd.	CE2, CE5	Category to heat and fire: 750 °C and 850 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1 UL 486C	UL* (E113650) + tested with appliance
Connector on PCB		Tested with appliance	Category to heat and fire: 650 °C	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Internal enclosure, air-out let	Shanghai Fanhe Polymer Material Co., Ltd.	PBT	Min. thickness: 2,0 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Indicator cover (for All mechanical types)	Chimei Corporation	PP	Min. thickness: 1,1 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Timer knob / thermostat knob (for All mechanical types)	China Petroleum and Natural Gas Co., Ltd. Jilin Petrochemical Branch	ABS	Min. thickness: 1,1 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Plastic enclosure, bottom cover, top cover	Samsung Total Petrochemicals Co., Ltd.	PP	Min. thickness: 2,1 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance
Control panel	Samsung Total Petrochemicals Co., Ltd.	PP	Min. thickness: 2,0 mm	IEC 60335-2-9 EN 60335-2-9 IEC 60335-1 EN 60335-1	Tested with appliance

Supplementary information:

[1]) Provided evidence ensures the agreed level of compliance. See OD-CB2039.
[2]) License available upon request.

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28.1	TABLE: Threaded part torque test			P
Threaded part identification		Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)
Screw for fixing earthing terminals		3,8	II	1,2

29.1	TABLE: Clearances					P
	Overvoltage category	II				—
		Type of insulation:				
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
500	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
800	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
1 500	0,5 / 0,8** / 1,0***	--	--	--	--	N/A
2 500	1,5 / **2,0***	1)	2)	--	3)	P
4 000	3,0 / **3,5***	--	--	4)	--	P
6 000	5,5 / 6,0***	--	--	--	--	N/A
8 000	8,0 / 8,5***	--	--	--	--	N/A
10 000	11,0 / 11,5***	--	--	--	--	N/A

Supplementary information:

***) For tracks on printed circuit boards if pollution degree 1 and 2**
****) For pollution degree 3**
*****) If the construction is affected by wear, distortion, movement of the parts or during assembly**

1) Basic insulation:
Between earthed metal parts of heating element and live parts (inside of sealing ring) (Min.): Cl.=Cr.=1,1 mm (pollution degree 1, requirement: Cl.= 1,0 mm, Cr.=0,56 mm)

Between earthed metal parts of heating element and live parts (outside of sealing ring) (Min.): Cl.=Cr.=4,3 mm

2) Supplementary insulation:
Between internal wire and accessible plastic parts(Min.): Cl.=Cr.=4,1 mm

3) Functional insulation:
Between L and N terminals (Min.): Cl.=Cr.=3,3 mm

4) Reinforced insulation:
Between live parts to accessible plastic parts(Min.): Cl.=Cr.=8,5 mm

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation	P

IEC 60335-2-9

Working voltage (V)	Creepage distance (mm) Pollution degree										
	1	2			3			Type of insulation			
		Material group			Material group						
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	B**	S**	R**	Verdict
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		—	—	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	—		—	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	—	—		N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		—	—	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	—		—	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	—	—		N/A
250	**0,56**	1,25	1,8	2,5	3,2	3,6	**4,0**	1)	—	—	P
250	0,56	1,25	1,8	2,5	3,2	3,6	**4,0**	—	2)	—	P
250	1,12	2,5	3,6	5,0	6,4	7,2	**8,0**	—	—	4)	P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		—	—	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—		—	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—		N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—		N/A

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>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		—	—	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—		—	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—		N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		—	—	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—		—	N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—		N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		—	—	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—		—	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—		N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		—	—	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—		—	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—		N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		—	—	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—		—	N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		—	—	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—		—	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—		N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		—	—	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—		—	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—		N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		—	—	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—		—	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—		N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		—	—	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—		—	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—		

Supplementary information:

***) Material group IIIb is allowed if the working voltage does not exceed 50 V**

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

29.2	**TABLE: Creepage distances, functional insulation**	P

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Working voltage (V)	Creepage distance (mm) Pollution degree							
	1	2			3			
		Material group			Material group			
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	**3,2**	P
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

Supplementary information:

***) Material group IIIb is allowed if the working voltage does not exceed 50 V**

30.1	TABLE: Ball Pressure Test of Thermoplastics		P
Allowed impression diameter (mm) .....:		2,0	—
Object/ Part No./ Material	**Manufacturer/ trademark**	**Test temperature (°C)**	**Impression diameter (mm)**
Fan motor bobbin	See table 24.1	125	1,1

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Plastic enclosure / bottom cover / top cover	See table 24.1	125	1,7
Air-out grille	See table 24.1	132	1,4
Control panel	See table 24.1	75	1,1
Internal enclosure	See table 24.1	235	1,9
Indicator cover	See table 24.1	75	0,8
Timer knob / thermostat knob	See table 24.1	75	0,9

30.2	TABLE: Resistance to heat and fire - Glow wire tests							P
Object/ Part No./ Material	**Manufacturer / trademark**	**Glow wire test (GWT); (°C)**						**Verdict**
		550	**650**		**750**		**850**	
			te (s)	**ti (s)**	**te (s)**	**ti (s)**		
Fan motor bobbin	See table 24.1				0	0	X	P
Plastic enclosure / bottom cover / top cover (shielded by tube cover)	See table 24.1				0	0	X	P
Plastic enclosure / bottom cover / top cover	See table 24.1	X						P
Air-out grille	See table 24.1		0	0				P
Control panel	See table 24.1	X						P
Internal enclosure (shielded by tube cover)	See table 24.1				0	0	X	P
Internal enclosure	See table 24.1	X						P
Timer knob / thermostat knob	See table 24.1	X						P
Indicator cover	See table 24.1		0	0				P
Crimped connector	See table 24.1				0	0	X	P
Silicone tube	See table 24.1				0	0	X	P
Micro switch	See table 24.1				0	0	X	P

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PCB	See table 24.1				0	0	X	P
Relay	See table 24.1				0	0	X	P
Connector on PCB	See table 24.1		0	0				P
X2 capacitor	See table 24.1				0	0	X	P
Timer	See table 24.1				0	0	X	P
Thermostat	See table 24.1				0	0	X	P

Object/ Part No./ Material	**Manufacturer / trademark**	**Glow-wire flammability index (GWFI), °C**				**GW ignition temp. (GWIT), °C**		**Verdict**
		550	**650**	**750**	**850**	**675**	**775**	

The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) ≤ 2s] (Yes/No) .....:	Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No) .....:	N/A
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?.....:	Yes
Ignition of the specified layer placed underneath the test specimen (Yes/No) .....:	No

Supplementary information:

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

30.2/30.2.4	**TABLE: Needle- flame test (NFT)**				N/A
Object/ Part No./ Material	**Manufacturer/ trademark**	**Duration of application of test flame (ta); (s)**	**Ignition of specified layer Yes/No**	**Duration of burning (tb) (s)**	**Verdict**

<End of Report>

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60335-1
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Household and similar electrical appliances – Safety –
Part 1: GENERAL REQUIREMENTS

Differences according to:	EN 60335-1:2012 + AC:2014 + A11:2014 EN 62233:2008
Attachment Form No.:	EU_GD_IEC60335_1T
Attachment Originator:	Nemko AS
Master Attachment:	2015-03

Appendix I – The requirement of EN 60335-1:2012 / A13:2017 + A1:2019 + A14:2019 + A2:2019
Appendix II – The requirement of EN 60335-2-9:2003 + A1:2004 + A2:2006 + A12:2007 + A13:2010 (deviations from IEC 60335-2-9:2008 + A1:2012 + A2:2016)

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	CENELEC COMMON MODIFICATIONS		
6.1	Delete “class 0” and “class 01”		N/A
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	220 V – 240 V	P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		P
	An indication that the device has been operated is given by:		—
	• a tactile feedback, or		P
	• an audible and visual feedback		P
7.12	The instructions include the substance of the following:		—
	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P
	- children shall not play with the appliance		P
	- cleaning and user maintenance shall not be made by children without supervision		P
7.12.Z1	The specific instructions related to the safe operation of this appliance is collated together in the front section of the user instructions		P
	The height of the characters, measured on the capital letters, is at least 3 mm	3 mm	P
	These instructions are also available in an alternative format, e.g. on a website		P
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test, except that		P
	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		P
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		P

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	parts intended to be removed for user maintenance are also not removed		P
8.2	Compliance is checked by applying the test probes of EN 61032		P
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		N/A
11.8	Footnotes to “External enclosure of motor-operated appliances” to be taken into account		N/A
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		P
	Test probe 18 applied with a force of 2,5N on the appliance fully assembled		P
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		P
	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		—
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		P
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant standard, and		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P
	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance		N/A
	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		N/A
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		N/A
	if direct supply to these parts from the supply mains gives rise to a hazard		N/A
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003		N/A
	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		N/A
24.Z1	For motor running capacitors (IEC 60252-1 type P2) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
25.6	Supply cords of single-phase portable appliances having a rated current not exceeding 16 A, fitted with a plug complying with the following standard sheets of IEC/TR 60083:		—
	- for Class I appliances: standard sheet C2b, C3b or C4.....:	C4	P
	- for Class II appliances: standard sheet C5 or C6 .....:		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		—
	• halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg		N/A
	• halogen-free thermoplastic compound sheathed cords (H05Z1Z1H2-F or H05Z1Z1-F), for other appliances		N/A
	Cross-linked halogen-free compound sheathed supply cords have properties at least those of cross-linked halogen-free compound sheathed cords (H07ZZ-F)		N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		N/A
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		N/A
	The duration of the test is as specified in 19.7		N/A
ZA	**ANNEX ZA** (NORMATIVE) **SPECIAL NATIONAL CONDITIONS**		—
	Norway		—
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	Norway		—
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
	All CENELEC countries		—
25.6 and 25.25	Information concerning National plug and socket-outlets is available from the CENELEC website. Normative national requirements concerning plug and socket-outlets are shown in the relevant National standard	DE	P
	Ireland and United Kingdom		—
25.8	In the table, the lines for 10 A and 16 A are replaced by:		—
	> 10 and ≤ 13 1,25		N/A
	> 13 and ≤ 16 1,5		N/A
ZB	**ANNEX ZB** (INFORMATIVE) **A-DEVIATIONS**		—
	Ireland		—
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A
	United Kingdom		—
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		P
ZC	**ANNEX ZC** (NORMATIVE) **NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS**		—
	A list of referenced documents in this standard		N/A
ZD	**ANNEX ZD** (INFORMATIVE) **IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS**		—
	A table with IEC and CENELEC code designations for flexible cords		N/A
ZE	**ANNEX ZE** (INFORMATIVE) **SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE**		—
	Not for commercial use		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
ZF	**ANNEX ZF** (INFORMATIVE) **CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD**		—
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive) .....:	LVD	P
ZG	**ANNEX ZG** (NORMATIVE) **UV APPLIANCES**		—
	The following modifications to this standard apply to appliances having UV emitters		N/A
	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109		N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source		N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant		N/A
ZZ	**ANNEX ZZ** (INFORMATIVE) **COVERAGE OF ESSENTIAL REQUIREMENTS OF EC DIRECTIVES**		—
	Description of the relation between this European standard and the LVD (Low Voltage Directive, 2006/95/EC) and the MD (Machinery Directive, 2006/42/EC)	LVD	P

Appendix II – The requirements of EN 60335-1:2012 / A13:2017 + A1:2019 + A14:2019 + A2:2019			
7.10	Delete the paragraphs starting with “Devices used to start/stop….” until the end of the requirement “……by vulnerable persons.”. This includes Notes Z1 and Z2.		P
7.12.Z1	Delete the sub clause.		P
7.14	Delete Note Z1.		P
8.1.1	Replace the first sentence of the replacement of the 3rd paragraph with the following:		—
	Test probe B and probe 18 of EN 61032 are applied with a force not exceeding 1 N, the appliance being in every possible position,		P
	except that appliances normally used on the floor and having a mass exceeding 40 kg are not tilted.		N/A
8.1.3	Add the text “, test probe 18” after “test probe B,”		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
20.2	In the second paragraph replace the word “movable” by “moving” and replace “main function” by “working function”.		N/A
22.12	Add to the first paragraph:		—
	Other parts that are intended to be detached during use, maintenance or cleaning (examples are batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers.		P
22.17	Add to the first paragraph:		—
	This is not applicable to built-in appliances.		N/A
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	Compliance with the EN standard for the relevant component does not necessarily ensure compliance with the requirements of this standard.		P
	Motors are not required to comply with EN 60034-1. They are tested as part of the appliance according to this standard.		N/A
	Relays shall be tested as part of the appliance according to this standard.		N/A
	They may be alternatively tested to EN 60730-1, in which case they shall also meet the additional requirements in EN 60335-1.		N/A
	Unless otherwise specified, the requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		P
	Unless otherwise specified, components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard.		P
	Unless otherwise specified, the requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components.		P
	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		—

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		P
	- unless the pre-selection alternatives in 30.2 are used, the test report for the component states the values of t_e and t_i. as required by EN 60695-2-11.		N/A
	If the above two conditions are not satisfied, the component is tested as part of the appliance.		N/A
	NOTE 1 There are two levels of severity specified for appliances for which 30.2.3 is applicable.		N/A
	Power electronic converter circuits are not required to comply with EN 62477-1. They are tested as part of the appliance according to this standard.		N/A
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant standard, and		N/A
	components that are not marked or not used in accordance with their marking,		N/A
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		N/A
	NOTE 2 For automatic controls, marking includes documentation and declaration as specified in Clause 7 of EN 60730-1.		N/A
	Lamp-holders and starter-holders that have not been previously tested and found to comply with the relevant EN standard are tested as a part of the appliance and shall additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance.		N/A
	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used.		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard.		P
	Plugs and socket-outlets and other connecting devices of interconnection cords shall not be interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		N/A
	with connectors and appliance inlets complying with the standard sheets of EN 60320-1,		N/A
	if direct supply to these parts from the supply mains could give rise to a hazard.		N/A
	NOTE Z3 For details of plugs used in CENELEC countries listed in IEC TR 60083 see Annex ZH.		P
	When an EN standard does not exist for a component, there are no additional tests specified.		P
24.Z1	Replacement: Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1.		N/A
25.1	Addition: Plugs and pins for insertion into socket outlets shall follow the relevant standards sheets in Annex ZH.		P
25.6	Delete the addition.		P
25.7	Delete the existing text starting “Halogen free thermoplastic……..” until ”……..designation H07ZZ-F). “		N/A
25.25	Replace the second sentence of the first paragraph and add the note: Dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are to be in accordance with the dimensions of the relevant plug standard.		N/A
	NOTE Z1 Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH.		N/A
ZA	**ANNEX ZA** (NORMATIVE) **Special national conditions**		—
	Denmark, Sweden, Norway and Finland		—
7.12.8	The maximum inlet water pressure shall be at least 1,0 MPa		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	Denmark		
22.47	The maximum inlet water pressure shall be at least 1,0 MPa		N/A
	Ireland and United Kingdom		—
25.8	In the table, the lines for >10 A and ≤16 A are replaced by:		—
	> 10 and ≤ 13 1,25 (1,0)[b]		N/A
	> 13 and ≤ 16 1,5 (1,0)[b]		N/A
ZB	**ANNEX ZB** (INFORMATIVE) **A-DEVIATIONS**		—
	Ireland		—
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A
	United Kingdom		—
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		P
ZC	**ANNEX ZC** (NORMATIVE) **NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS**		—
	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document		P
ZD	**ANNEX ZD** (INFORMATIVE) **IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS**		—
	Replace Table ZD.1		P
	Add an additional row in the Table ZD.1 of Annex ZD.		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
ZF	**ANNEX ZF** (INFORMATIVE) **CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD**		—
	Replace the Table ZF.1		P
ZH	**ANNEX ZH** (INFORMATIVE) **Common plug and socket-outlet types in CENELEC countries**		—
ZH.1	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A shall be fitted with a plug complying with the following standard sheets:		P
	— for class I appliances or class II appliances with functional earth: standard sheet EU2, EU3 or EU4	EU4	P
	— for class II appliances: standard sheet EU5, EU6 or EU7		N/A
	However, there are some exemptions or differences in certain CENELEC countries		N/A
ZH.2	Plugs according to standard sheet EU2 are not allowed in Belgium, France and the United Kingdom.		N/A
	Plugs according to standard sheet EU3 are not allowed in Austria, Finland, Germany, Iceland, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, Switzerland and the United Kingdom.		N/A
ZH.3	Specific country data.		P
ZH.4	List of country codes	DE and UK	P
ZI	**ANNEX ZI** (INFORMATIVE) **Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A**		—
	The publication of A11 to EN 60335-1:2012 implies an important change in the application of the dow of this standard and the corresponding Parts 2.		P
ZZA	**ANNEX ZZA** (INFORMATIVE) **RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96} AIMED TO BE COVERED**		—

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		P
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		P
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		P
ZZB	**ANNEX ZZB** (INFORMATIVE) **RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED**		—
	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements		N/A

Appendix II – The requirement of EN 60335-2-9:2003 + A1:2004 + A2:2006 + A12:2007 + A13:2010 (deviations from IEC 60335-2-9:2008 + A1:2012 + A2:2016)			
	CENELEC COMMON MODIFICATIONS		
7.1	When the provisions of footnote b to Table Z101 apply, the appliance shall be marked with: "Hot Surface" (EN 60335-2-9)		N/A
	The symbol or the warning shall be put on the surface of the appliance having the highest temperature and shall be visible during normal operation. (EN 60335-2-9)		N/A
7.10	Devices used to start/stop operational functions of the appliance, if any, shall be distinguished from other manual devices by means of shape, or size, or surface texture, or position, etc. A tactile or an audible and visual feedback shall give an indication that the device has been operated (EN 60335-2-9)		P
	An indication that the device has been operated is given by:		—

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	• a tactile feedback, or		P
	• an audible and visual feedback		P
7.12	The instructions shall include details on how to clean surfaces in contact with food. For toasters, they shall include details on how to remove breadcrumbs, when applicable. (EN 60335-2-9)		P
	The door or the outer surface may get hot when the appliance is operating. (EN 60335-2-9)		N/A
	The instructions include the substance of the following:		—
	Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the appliance and its cord out of reach of children less than 8 years. (EN 60335-2-9)		P
7.12.Z101	The specific instructions related to the safe operation of this appliance (as given in 7.12 of this standard) shall be collated together in the front section of the user instructions. The height of the characters, measured on the capital letters, shall be at least 3 mm(EN 60335-2-9)		P
7.14	The height of the triangle used with symbol IEC 60417-5041(DB:2002-10) shall be at least 12 mm		N/A
11.1	For ovens, rotary grills, rotisseries and cookers, compliance is also checked by the test of 11.Z101. (EN 60335-2-9)		N/A
	For contact grills, waffle irons, sandwich makers, radiant grills, raclette grills, griddles, barbecues, hot plates, candy floss, popcorn makers, compliance is also checked by the test of 11.Z102.(EN 60335-2-9)		N/A
	For breadmakers and food dehydrators, compliance is also checked by the test of 11.Z103.(EN 60335-2-9)		N/A
	For toasters, compliance is also checked by test of 11.Z104. (EN 60335-2-9)		N/A
	For roasters, compliance is also checked by test of 11.Z105. (EN 60335-2-9)		P
	For all other types of appliances, compliance is checked by submitting the appliance to the tests of the nearest mentioned relevant type of appliance. (EN 60335-2-9)		N/A
11.Z101	Ovens, rotary grills, rotisseries and cookers are supplied at rated power and operated under normal operation.(EN 60335-2-9)		N/A
	All heating units that can be connected to the supply mains at the same time during normal use are switched on. (EN 60335-2-9)		N/A
	Ovens are operated without accessories (EN 60335-2-9)		N/A

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	Temperature rise of the surfaces not exceeding the values of table Z101(EN 60335-2-9)		N/A
11.Z102	For contact grills, waffle irons, sandwich makers, radiant grills, raclette grills and griddles, barbecues, hot plates, candy floss, popcorn makers, the temperature rise limits in Table Z101 apply. The appliance is supplied at rated power and operated under normal operation.(EN 60335-2-9)		N/A
11.Z103	For breadmakers, the temperature rise limits for other surfaces in table Z101 apply. (EN 60335-2-9)		N/A
	For breadmakers and food dehydrators, the temperature rise limits in Table Z101 apply. The appliance is supplied at rated power and operated under normal operation. (EN 60335-2-9)		N/A
11.Z104	For toasters, the temperature rise limits in Table Z101 apply. The appliance is operated for three cycles at rated power and operated under normal operation. (EN 60335-2-9)		N/A
11.Z105	For roasters, the temperature rise limits in Table Z101 apply. The appliance is supplied at rated power and operated under normal operation. (EN 60335-2-9)	Test results were covered by IEC 60335-2-9:2008/A1:2012 clause 11.105, see main report for details.	P
19.1	Toasters are also subjected to the tests of 19.101 and 19.102. (EN 60335-2-9)		N/A
	Induction hotplates are also subjected to the tests of 19.103 and 19.104. (EN 60335-2-9)		N/A
19.11.2	Appliances with electronic controls according to the fault conditions a) to f), with controls disabled. Heating elements don't switch on.(EN 60335-2-9)		P
19.102	Toasters, loaded with the bread specified for normal operation, are operated at rated power input. The ejector mechanism is prevented from releasing and the supply is maintained to the heating elements after the timer has completed its cycle. The test is terminated after any fire has extinguished, after which any residual bread is removed from the toaster. (EN 60335-2-9)		N/A
20.2	Appliances are fully assembled as in normal operation without any parts removed. (EN 60335-2-9)		P
22.12	Handles, knobs, grips, levers and similar parts shall be fixed in a reliable manner so that they will not work loose in normal use if loosening could result in a hazard, including an ingestion or a choking hazard for vulnerable people (EN 60335-2-9)		P

EN 62233:2008			
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008		—
GLA-901	Limit ……100%	Measured max: 2,79 %	P

IEC60335_1T - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict

GLA-902	Limit ……100%	Measured max: 2,81 %	P
GLA-617	Limit ……100%	Measured max: 1,20 %	P
GLA-618	Limit ……100%	Measured max: 1,21 %	P

<End of Annex I>

Annex II Photo documentation
Report No.: NBES200100008701
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-901

View:

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Detail of: GLA-901, GLA-902

View:

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Detail of: GLA-901

View:

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Detail of: GLA-901

View:

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GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-901

View:

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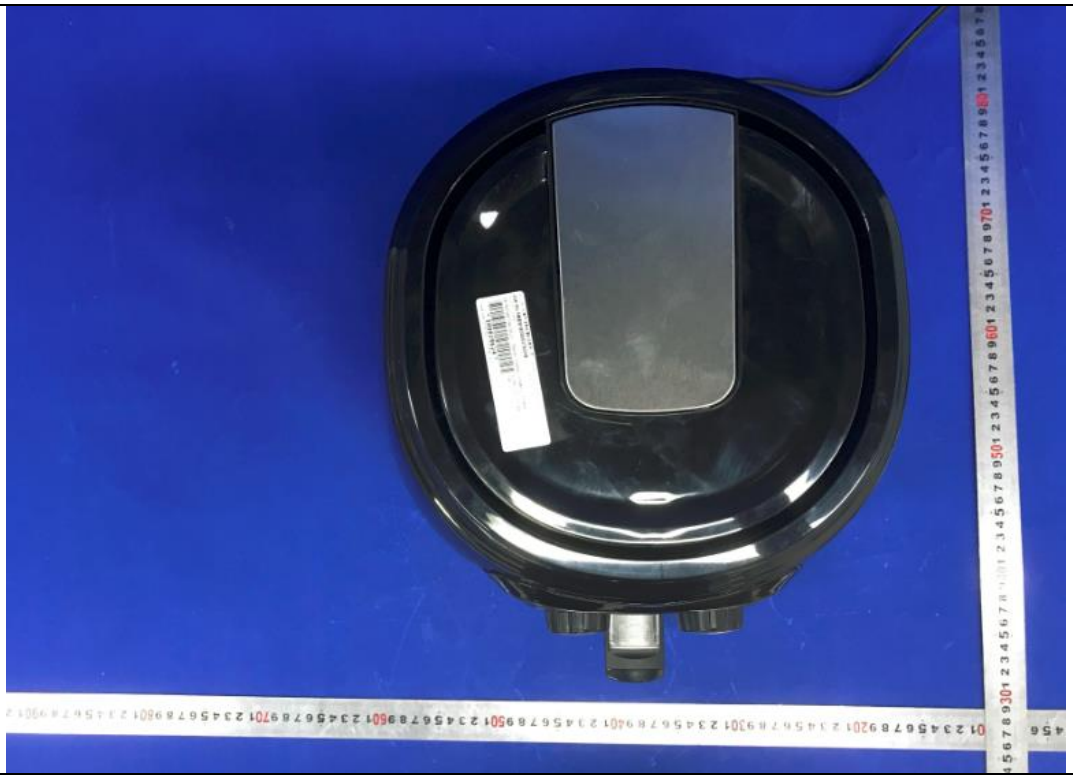

Detail of: GLA-901, GLA-902

View:

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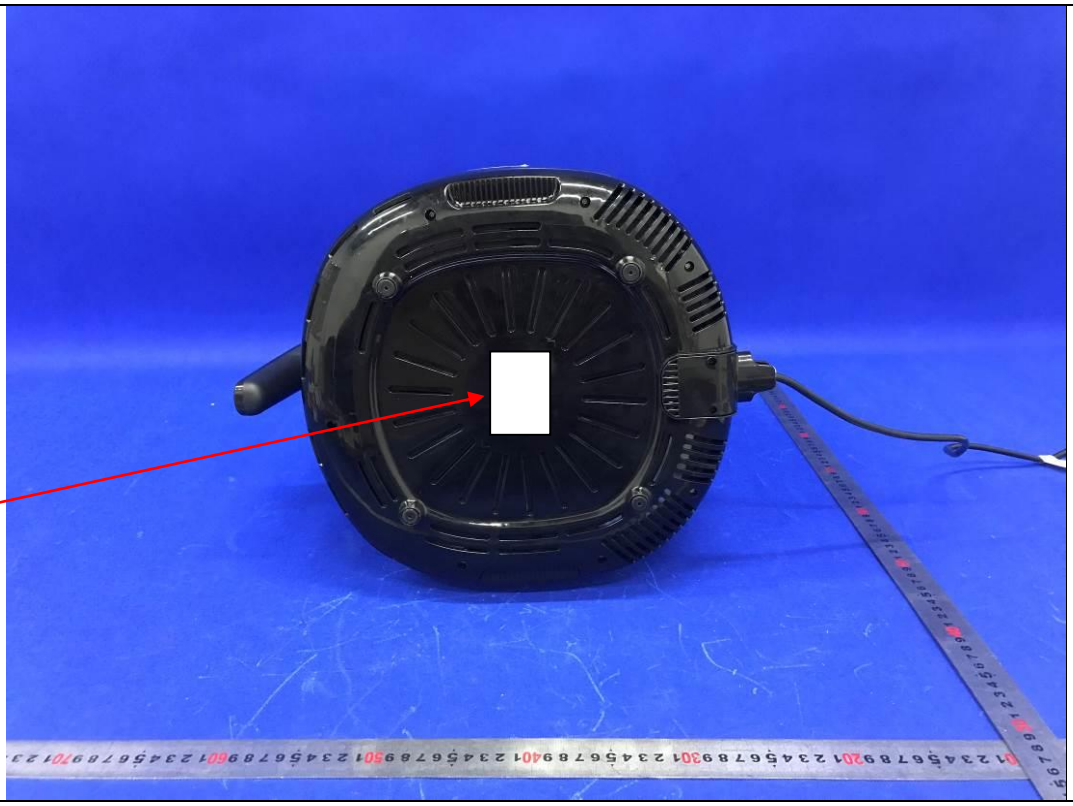
Label position



Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: Open view of GLA-901

View:

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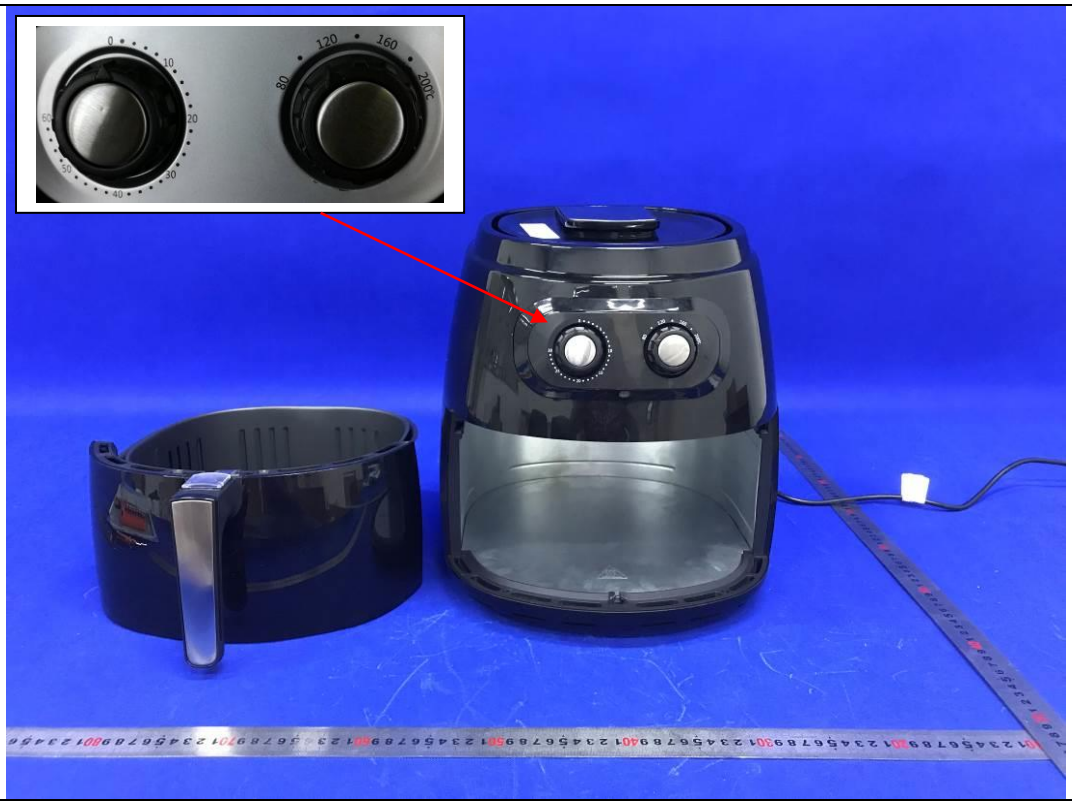

Detail of: Open view

View:

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Annex II Photo documentation
Roaster (Air Fryer)
GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: Open view of GLA-901, GLA-902

View:

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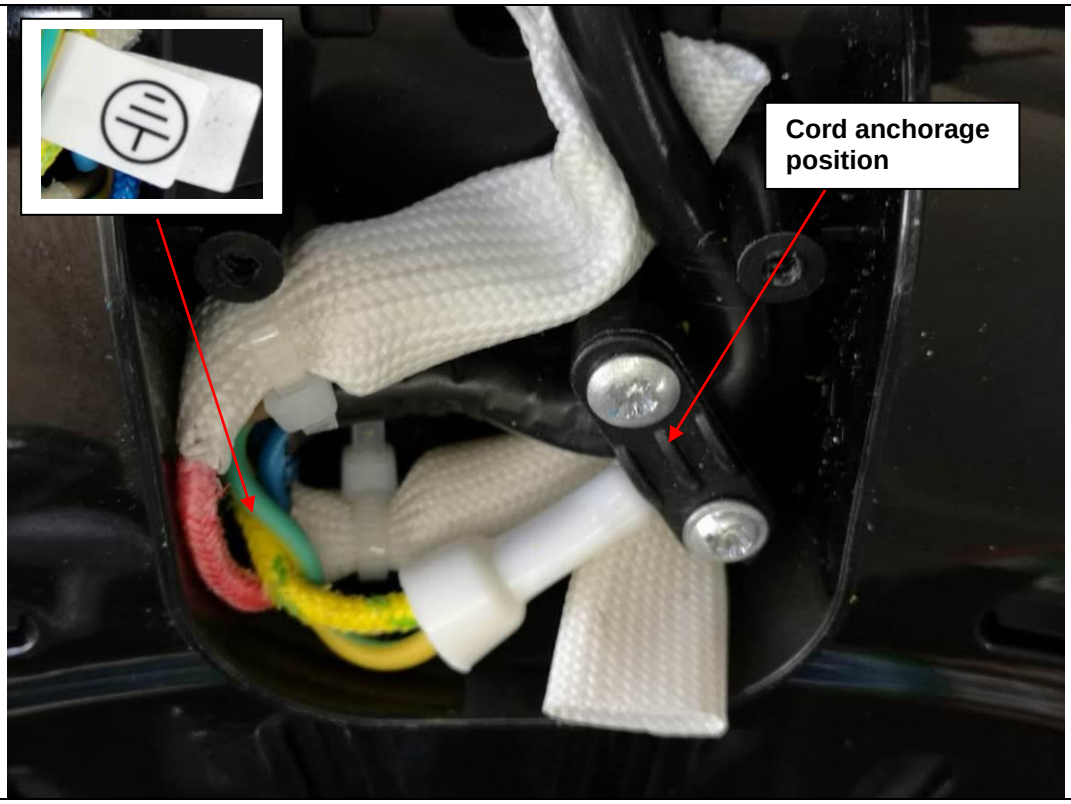

Detail of: Open view of GLA-901, GLA-902

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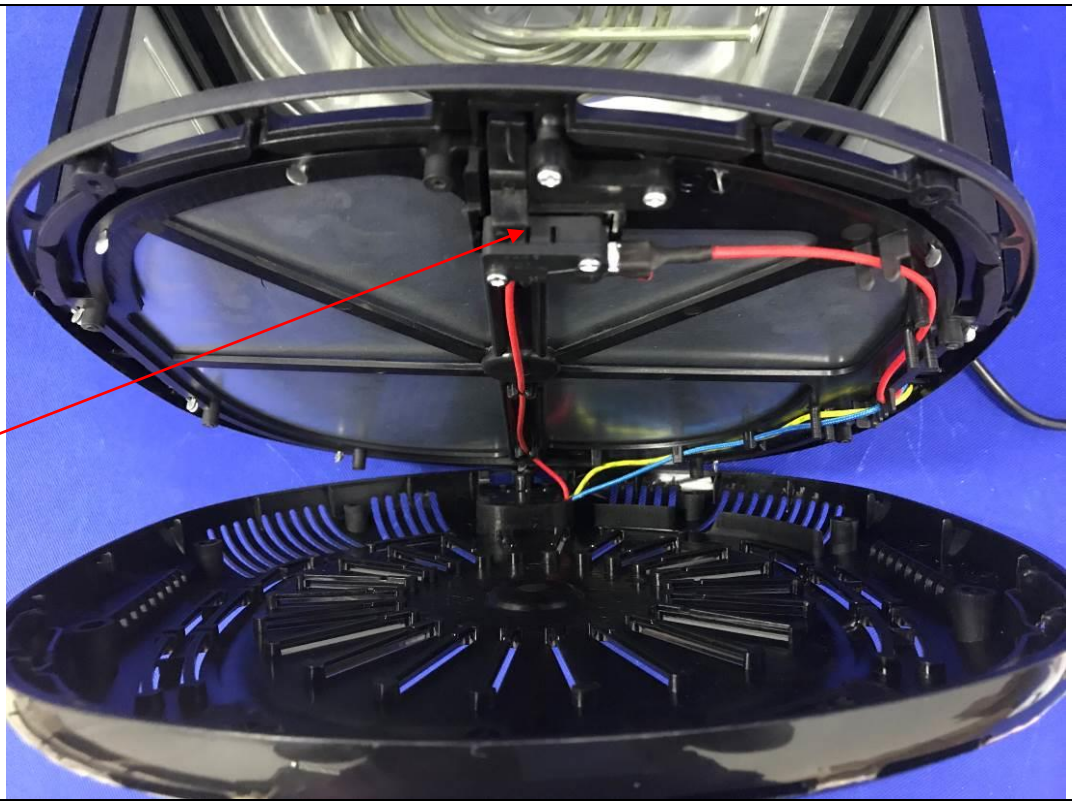
Biased-off switch position (Remark: the creepage distance between internal wire and bottom metal exceed 4 mm)



Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: Open view of GLA-901, GLA-902

View:

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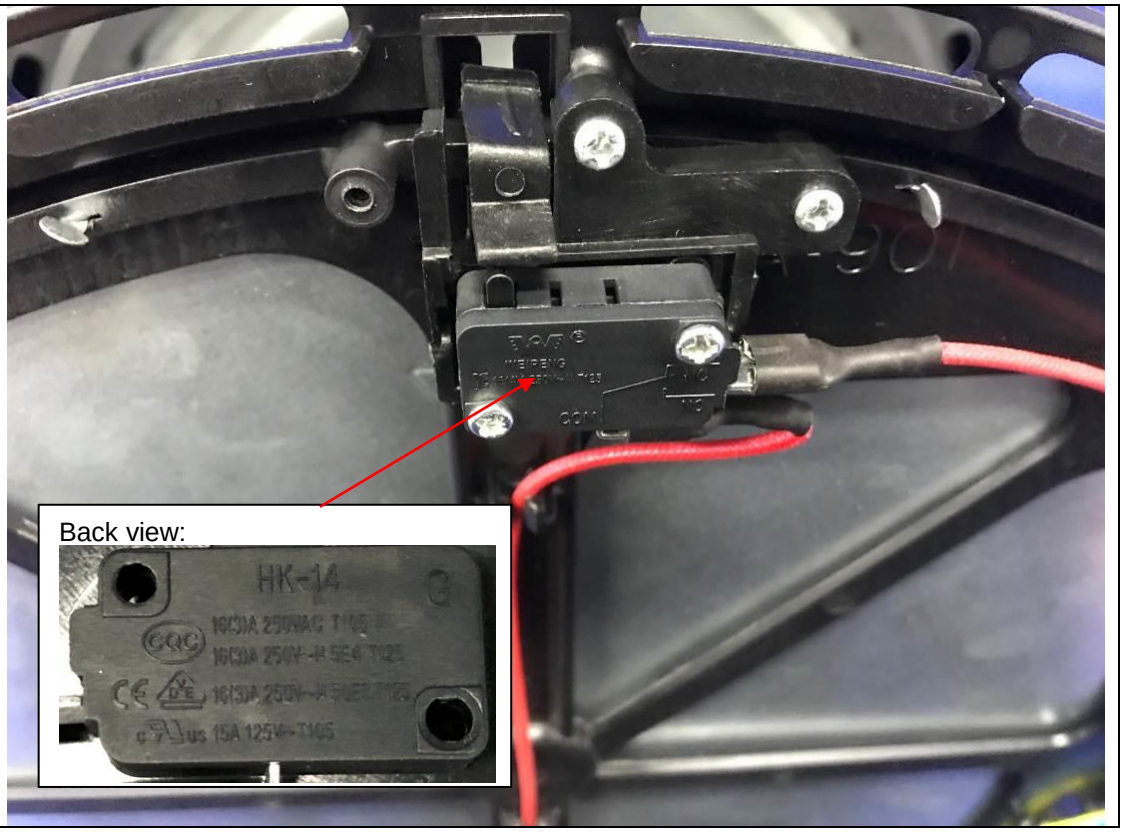

Detail of: Open view of GLA-901

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Detail of: Open view of GLA-901

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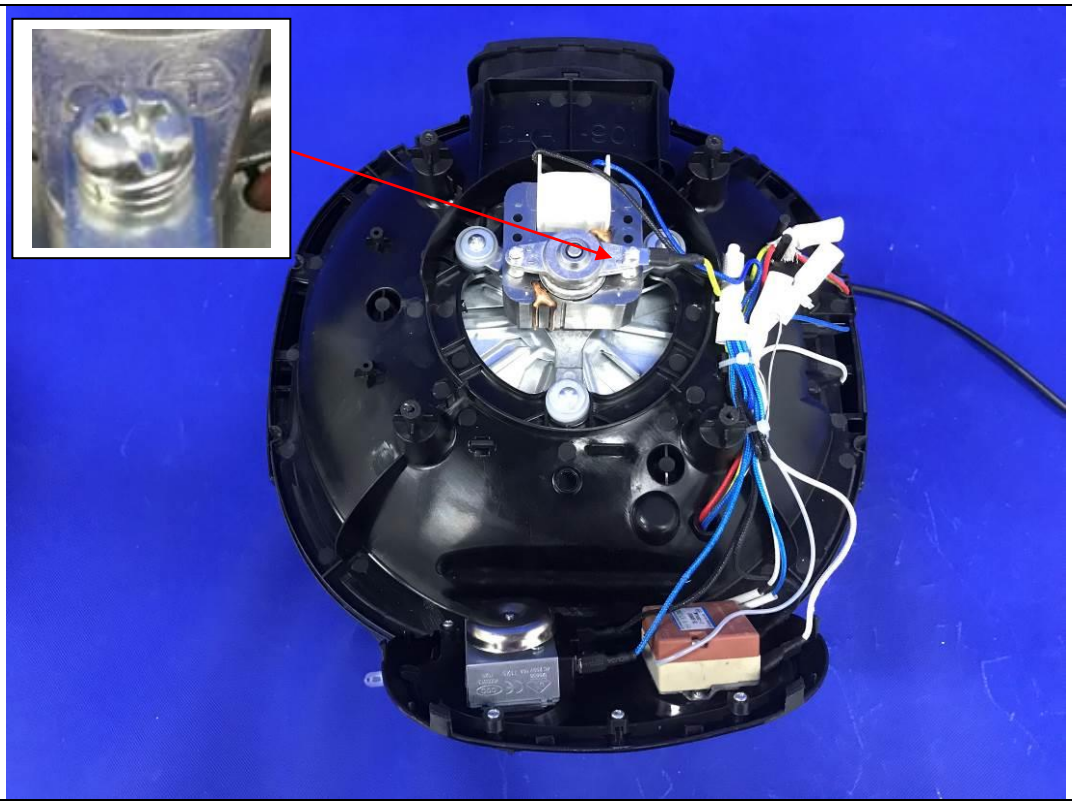

Detail of: Timer for GLA-901

View:

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Detail of: Thermostat for mechanical models

View:

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Detail of: The ending connection of heating tube for GLA-901, GLA-902

View:

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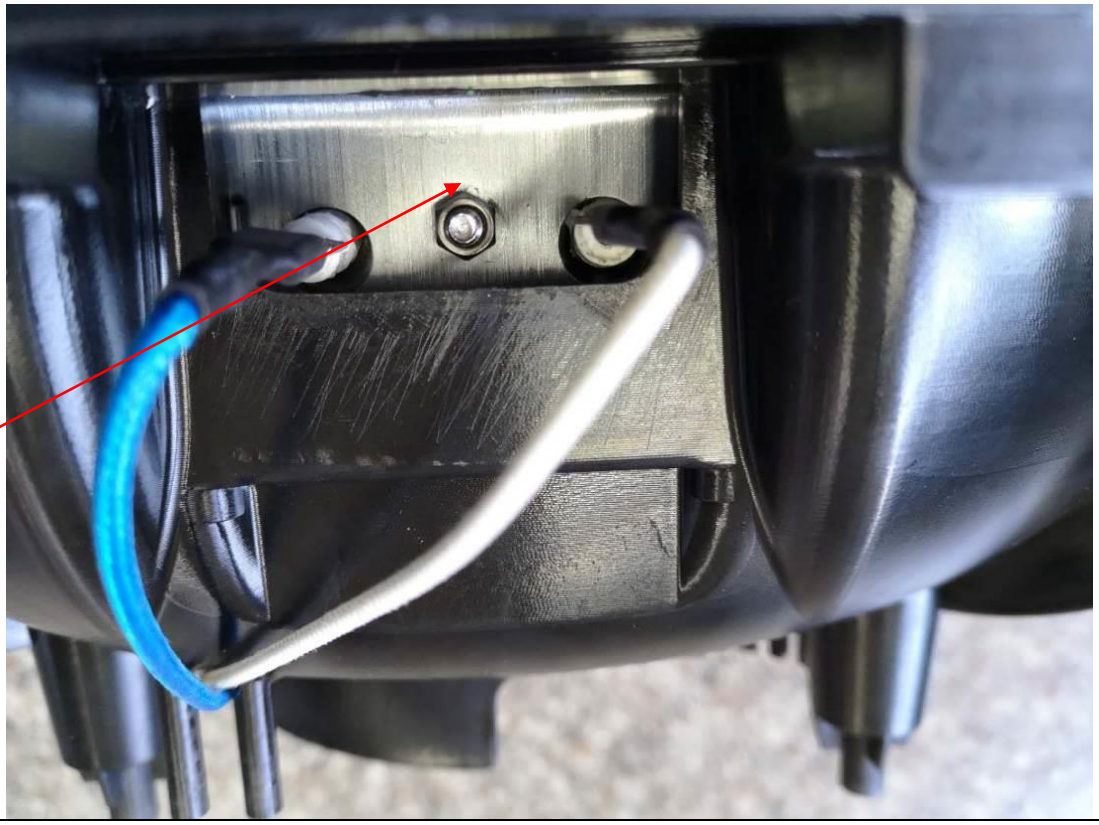
With lock washer or lock nut



Detail of: Fan motor

View:

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Detail of: Open view of GLA-901

View:

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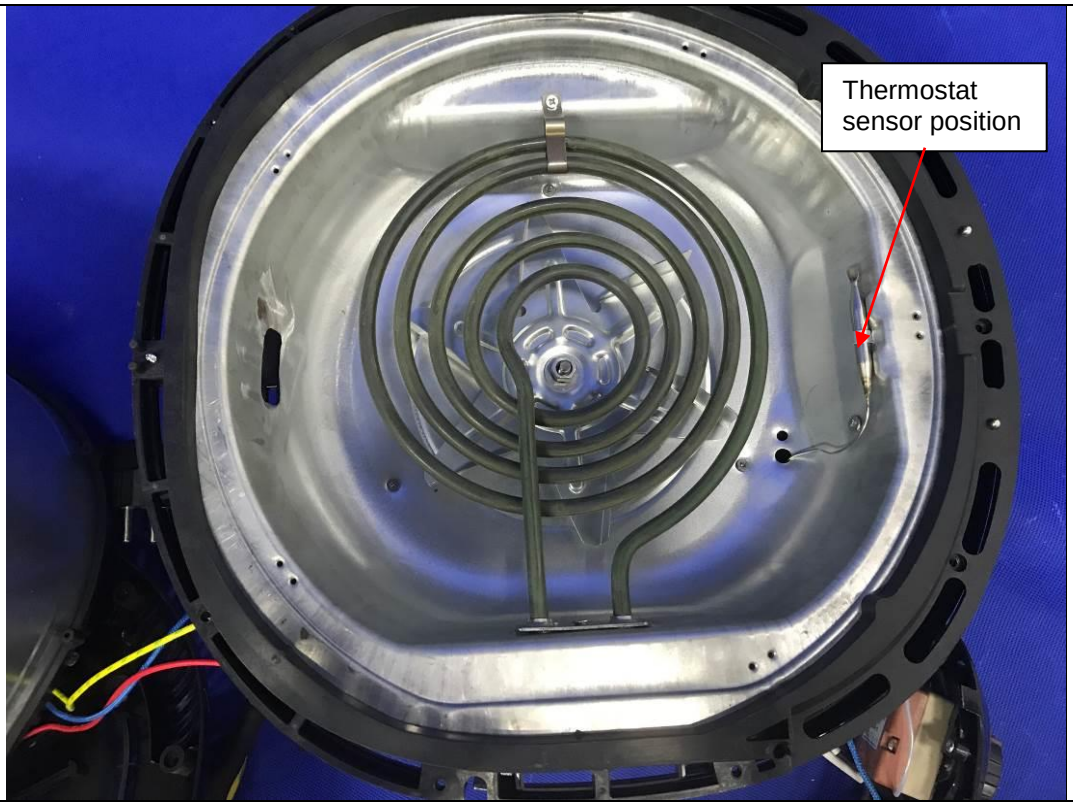

Detail of: Open view of GLA-901

View:

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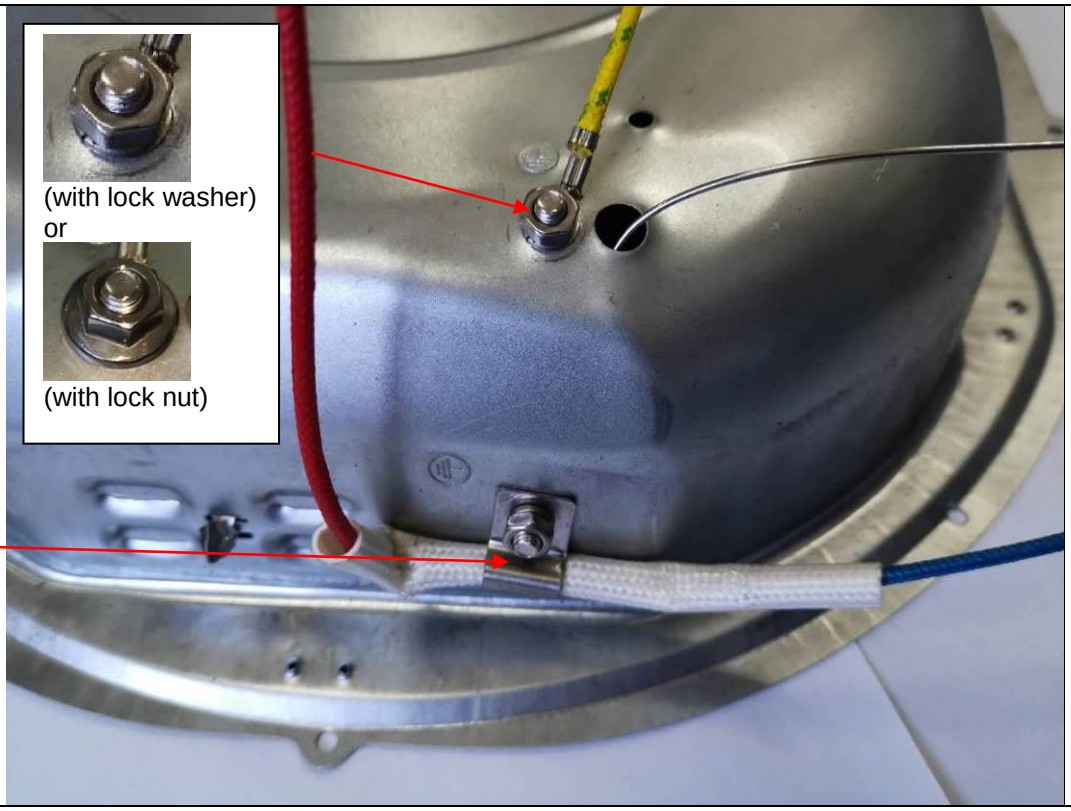
Thermal link position

(GLA-902 with two thermal links)



Detail of: Thermal link for all the models except for GLA-617, GLA-618

View:

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-902

View:

[ ] general

[X] front

[ ] rear

[ ] right

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Detail of: GLA-902

View:

[ ] general

[ ] front

[ ] rear

[X] right

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[ ] bottom

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-902

View:

[ ] general

[ ] front

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[ ] top

[ ] bottom

Detail of: GLA-902

View:

[ ] general

[ ] front

[ ] rear

[ ] right

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[X] top

[ ] bottom

Detail of: Open view of GLA-902

View:

[ ] general

[ ] front

[ ] rear

[ ] right

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Detail of: Open view of GLA-902

View:

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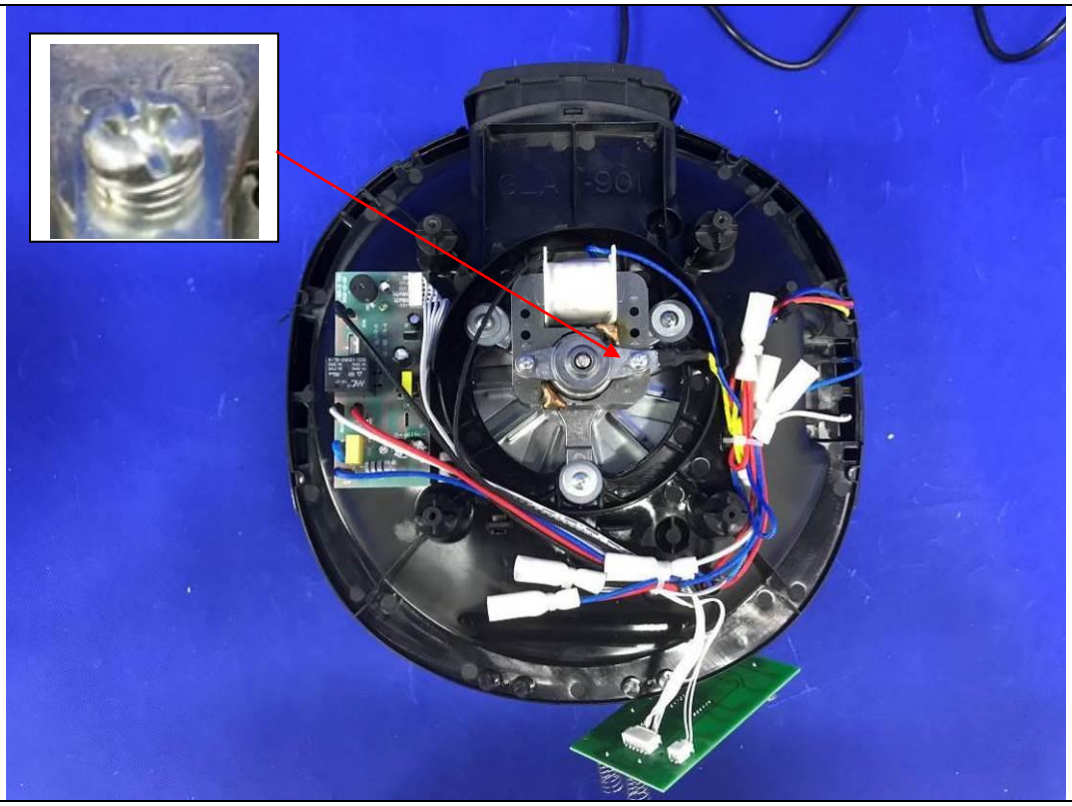

Detail of: Open view of GLA-902

View:

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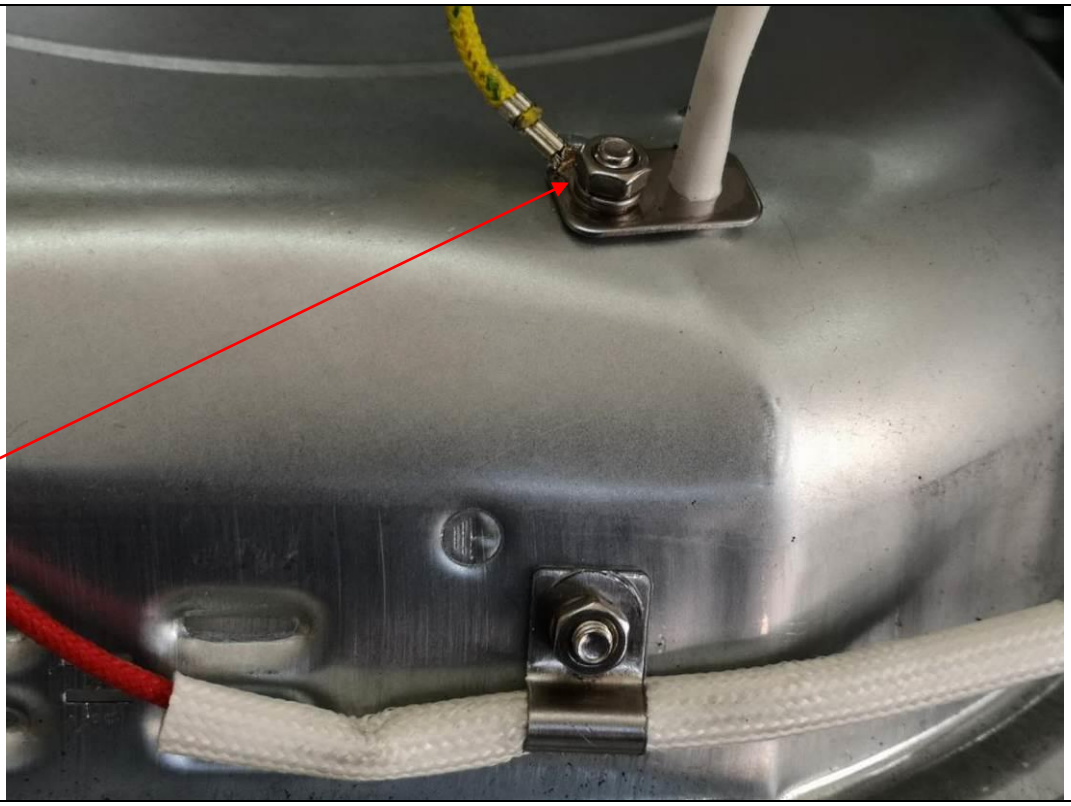
With lock washer



Detail of: Open view of GLA-902

View:

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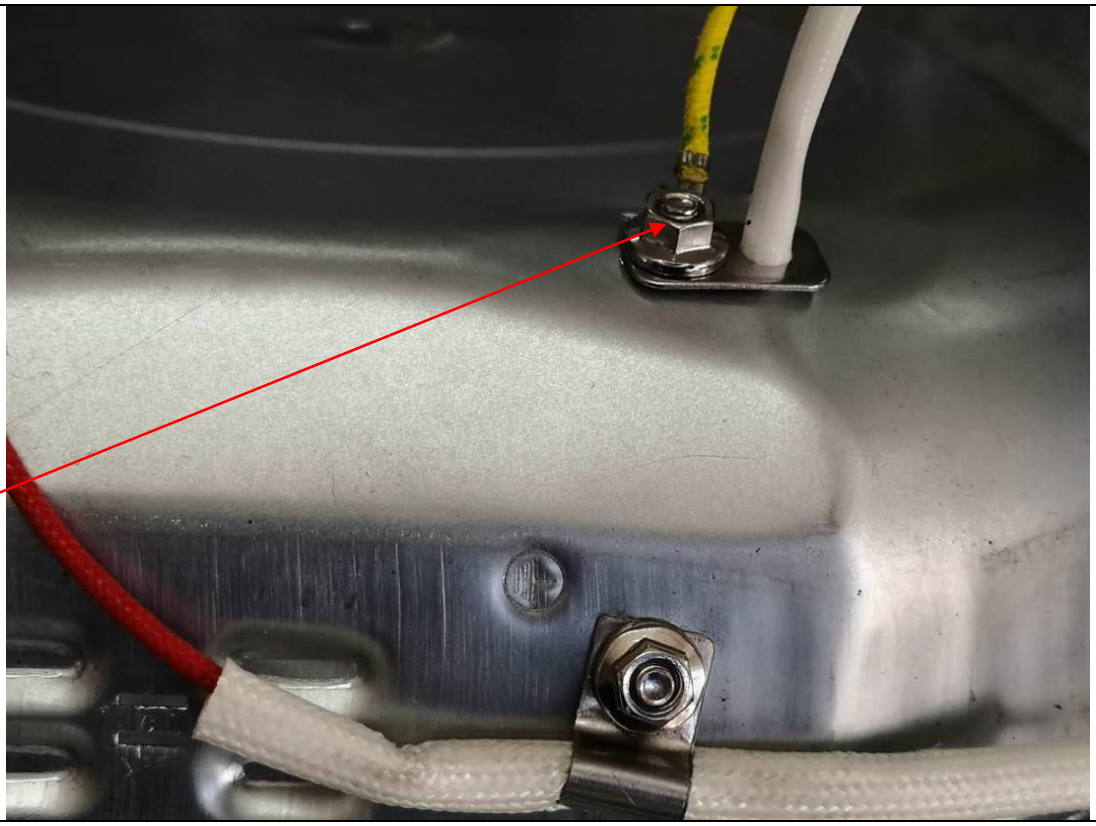
With lock nut



Detail of: Main PCB for all electronic models

View:

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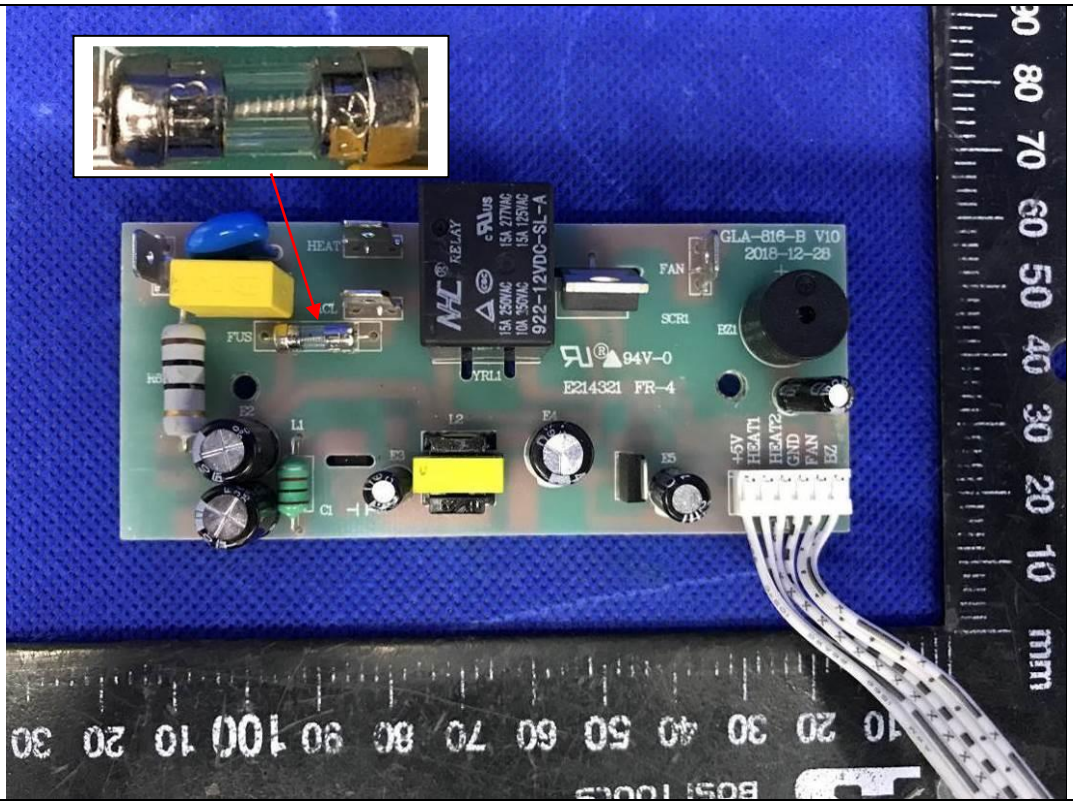
[ ] top

[ ] bottom



Detail of: Main PCB for GLA-902

View:

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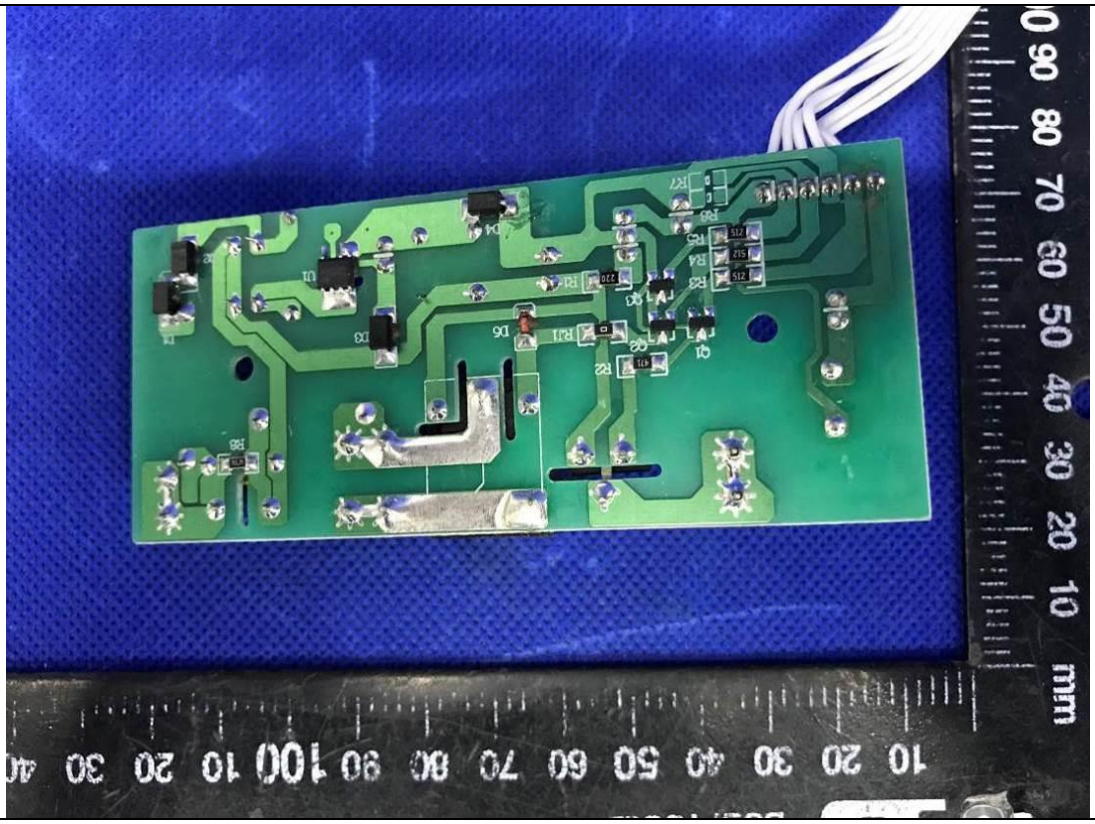
[ ] bottom



Detail of: Varistor on main PCB

View:

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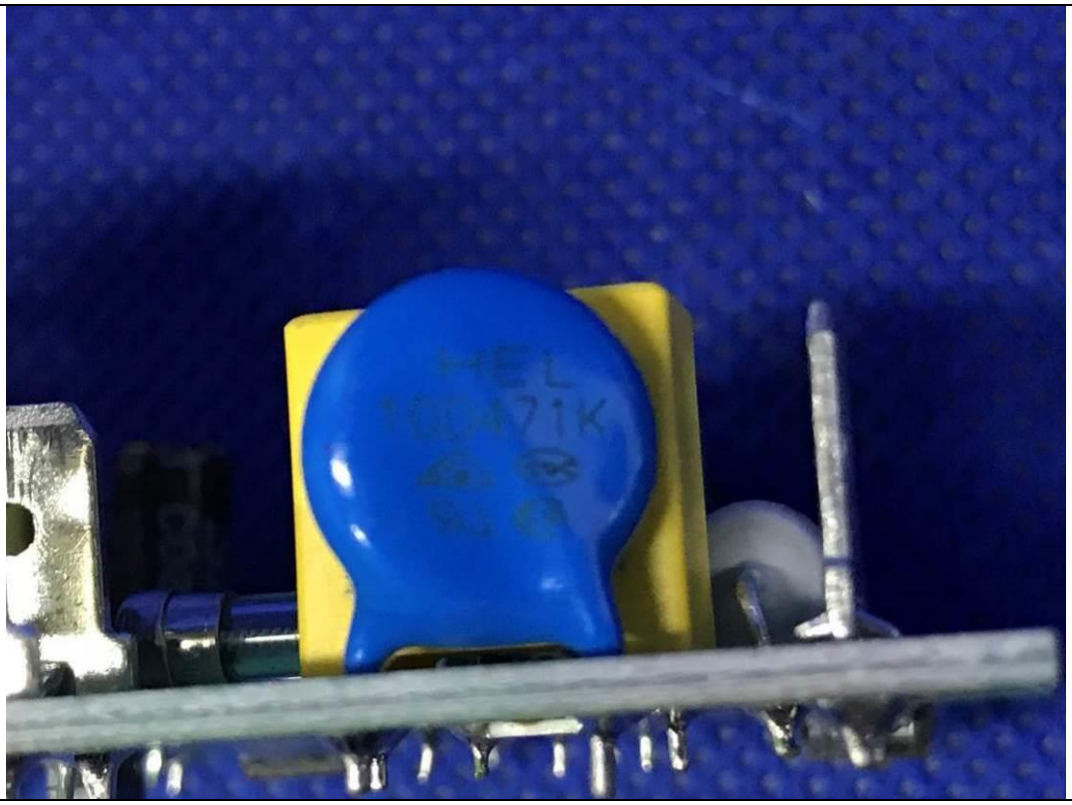

Detail of: X2 capacitor on main PCB

View:

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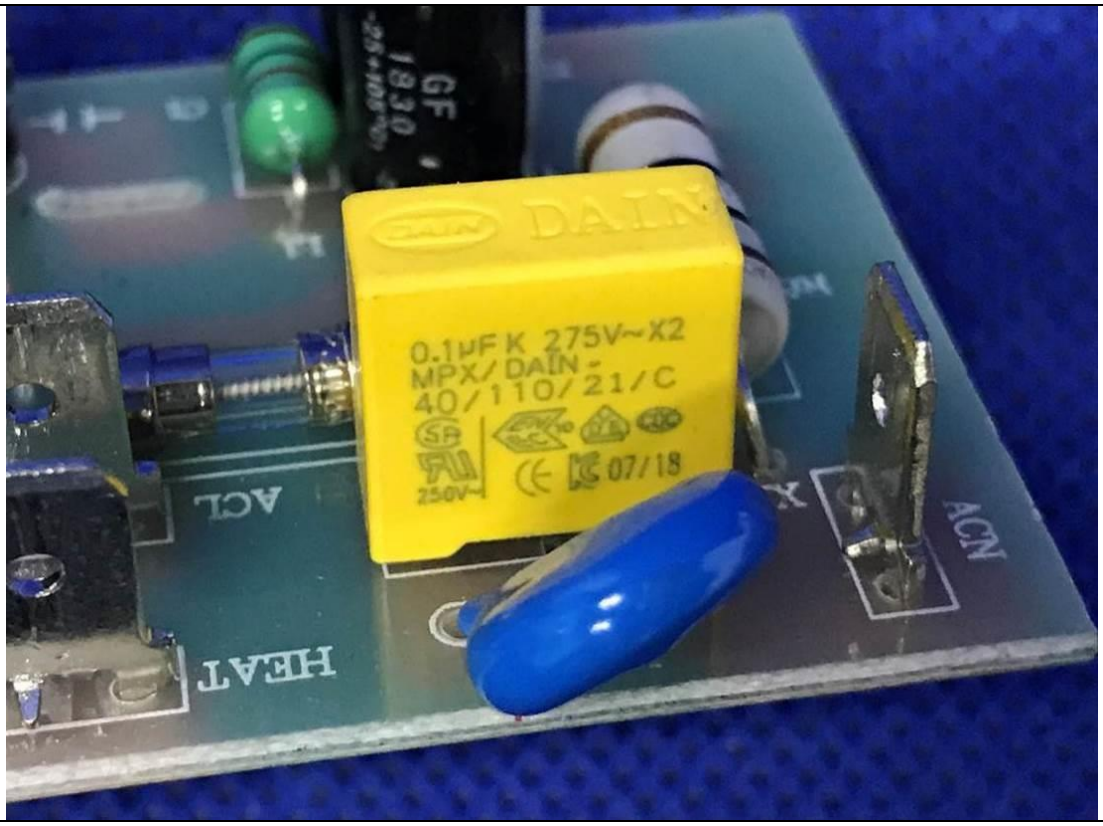

Detail of: Control PCB for GLA-902

View:

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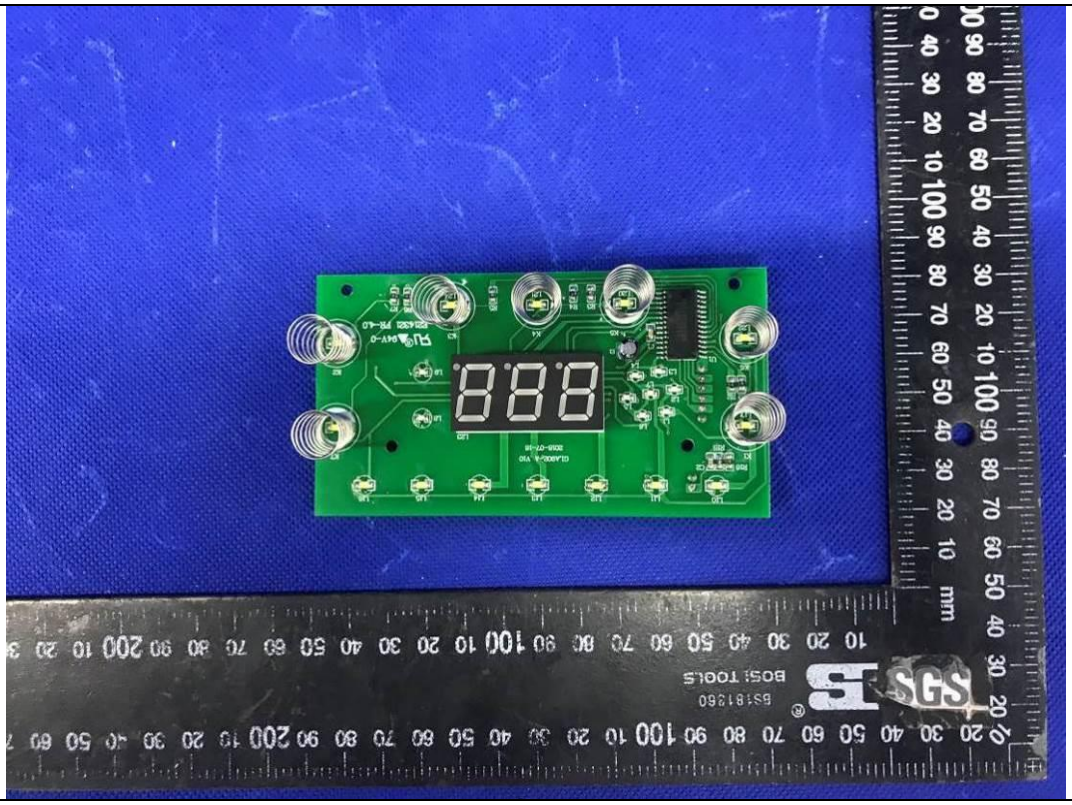

Detail of: Control PCB for GLA-902

View:

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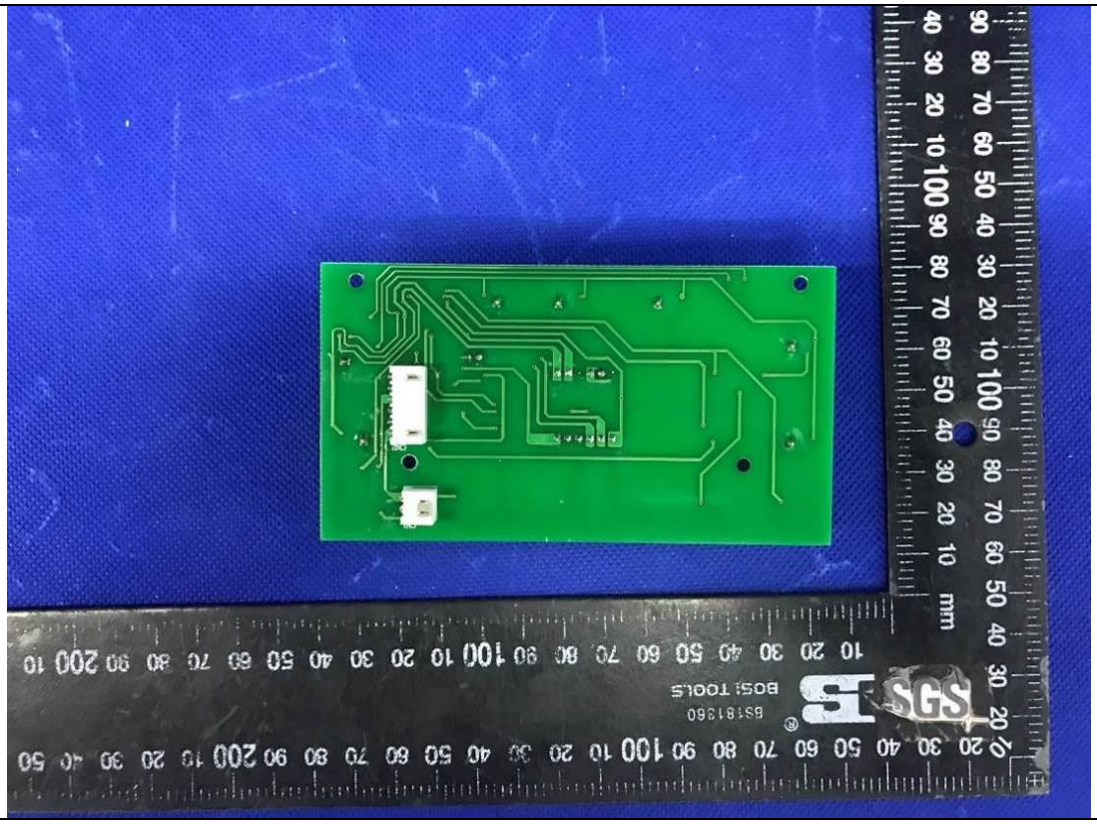

Detail of: Alternative construction (with protect net under the heating element)

View:

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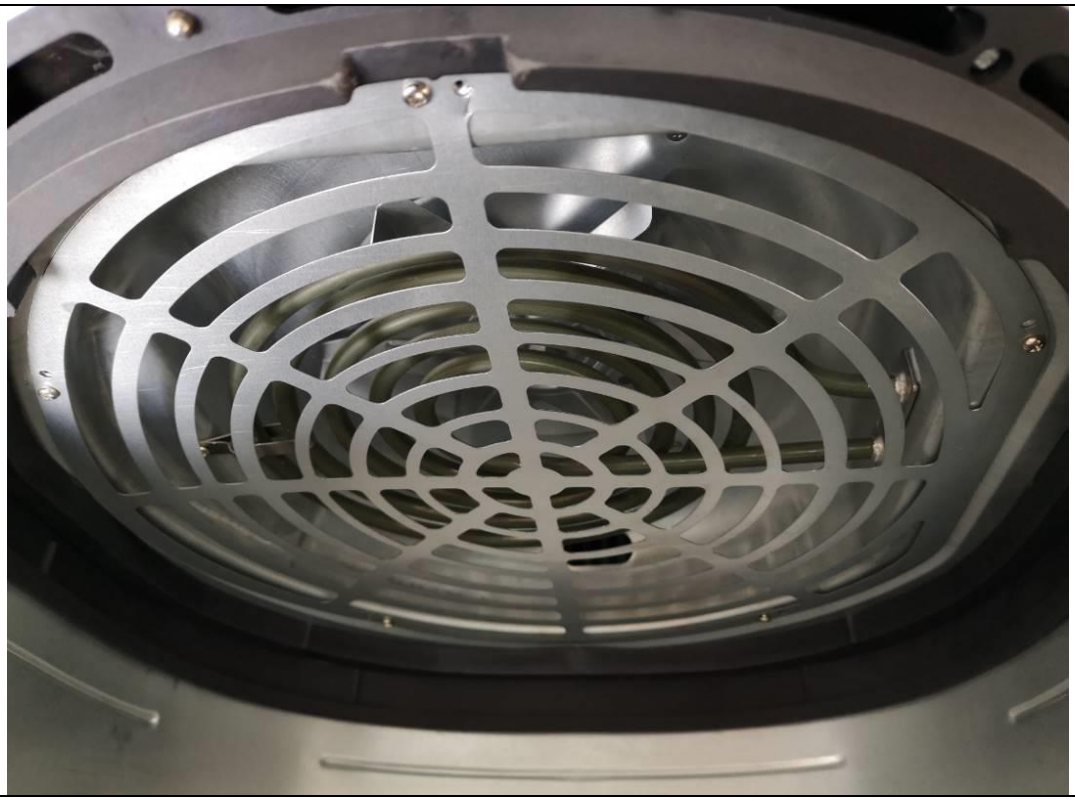

Detail of: Heating element for 1800 W models

View:

[ ] general

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-905

View:

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Detail of: GLA-905, GLA-906

View:

[ ] general

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[ ] top

[ ] bottom

Detail of: GLA-905

View:

[ ] general

[ ] front

[ ] rear

[X] right

[ ] left

[ ] top

[ ] bottom

Detail of: GLA-905

View:

[ ] general

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[X] left

[ ] top

[ ] bottom

Detail of: GLA-905

View:	
[ ] general [ ] front [ ] rear [ ] right [ ] left **[X] top** [ ] bottom	

Detail of: GLA-905, GLA-906

View:	
[ ] general [ ] front [ ] rear [ ] right [ ] left [ ] top **[X] bottom** **Label position**	

Detail of: GLA-905

View:

[ ] general

[ ] front

[ ] rear

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[ ] left

[ ] top

[ ] bottom

Detail of: Open view of GLA-905

View:

[ ] general

[ ] front

[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom

Detail of: Open view of GLA-905, GLA-906

View:

[ ] general

[ ] front

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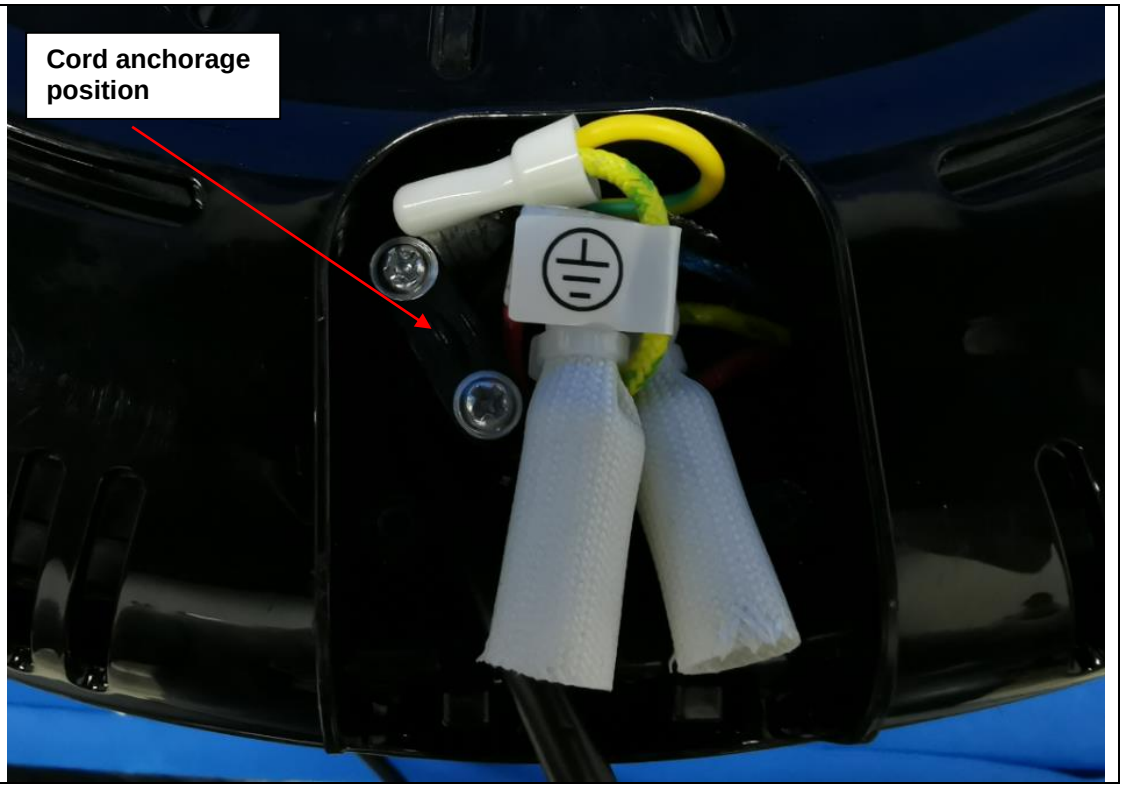

Detail of: Open view of GLA-905

View:

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Detail of: Open view of GLA-905

View:

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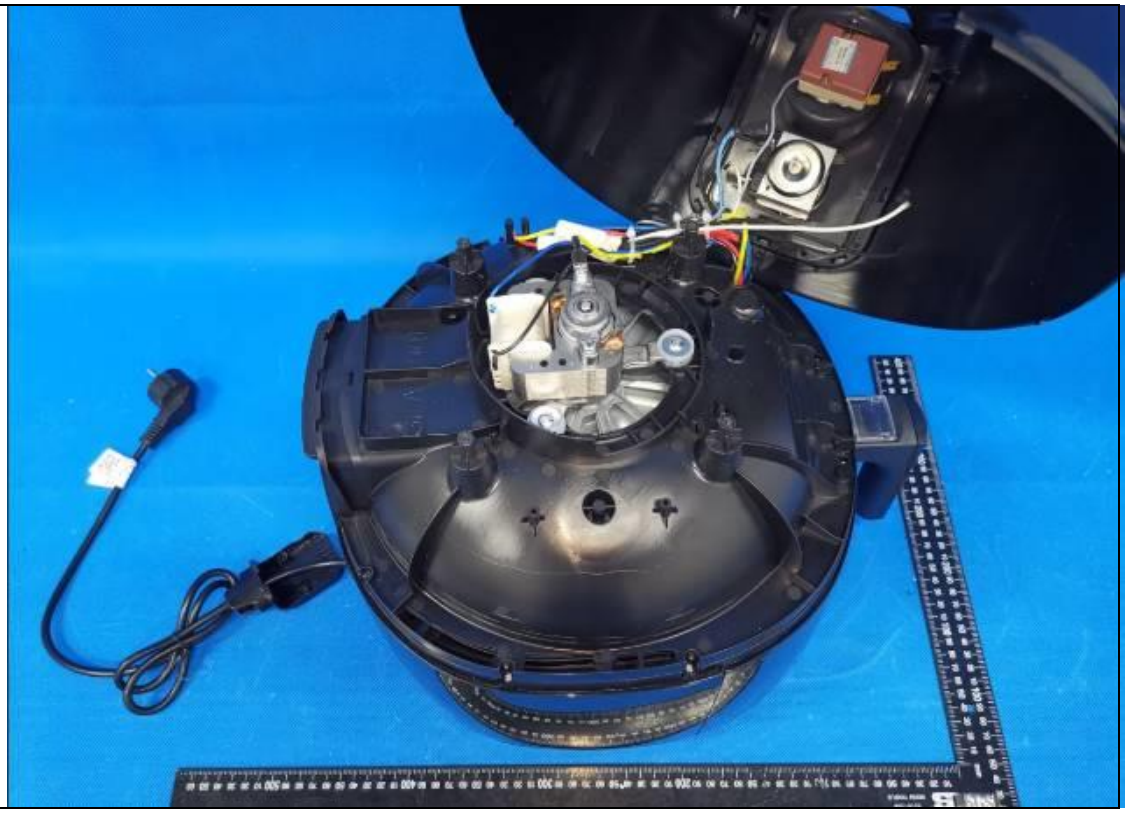

Detail of: Open view of GLA-905

View:

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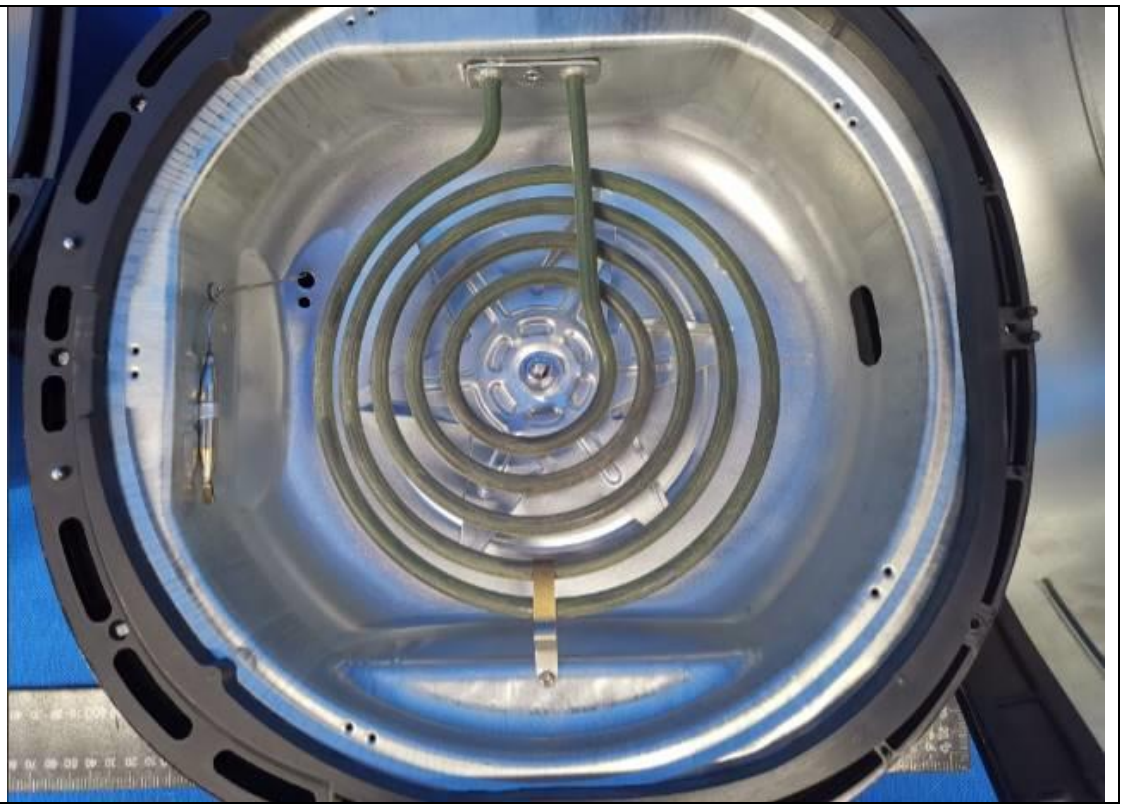

Detail of: Open view of GLA-905 and GLA-906

View:

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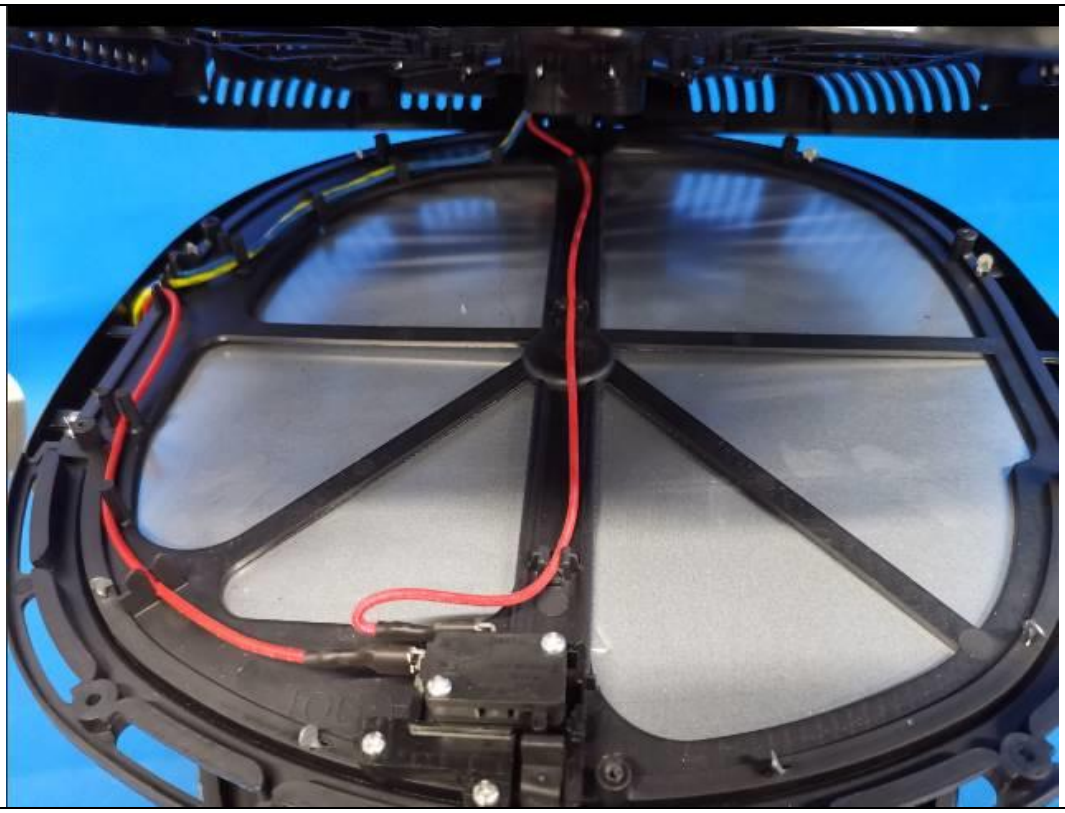

Detail of: The ending connection of heating tube for GLA-905, GLA-906

View:

[ ] general

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[ ] rear

[ ] right

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[ ] top

[ ] bottom

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-906

View:

[X] general

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[ ] bottom

Detail of: GLA-906

View:

[ ] general

[ ] front

[ ] rear

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[ ] left

[ ] top

[ ] bottom

Detail of: GLA-906

View:

[ ] general

[ ] front

[ ] rear

[ ] right

[X] left

[ ] top

[ ] bottom

Detail of: Open view of GLA-906

View:

[ ] general

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: Open view of GLA-906

View:

[ ] general

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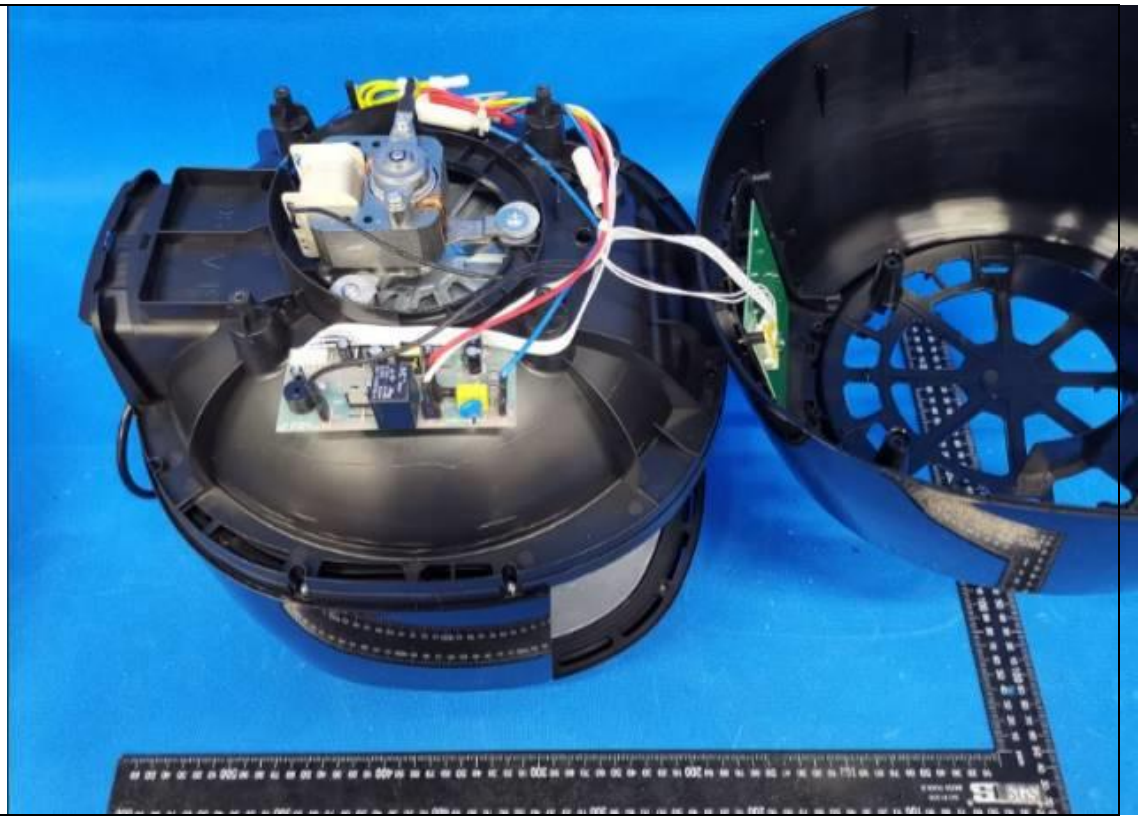

Detail of: Control PCB for GLA-906

View:

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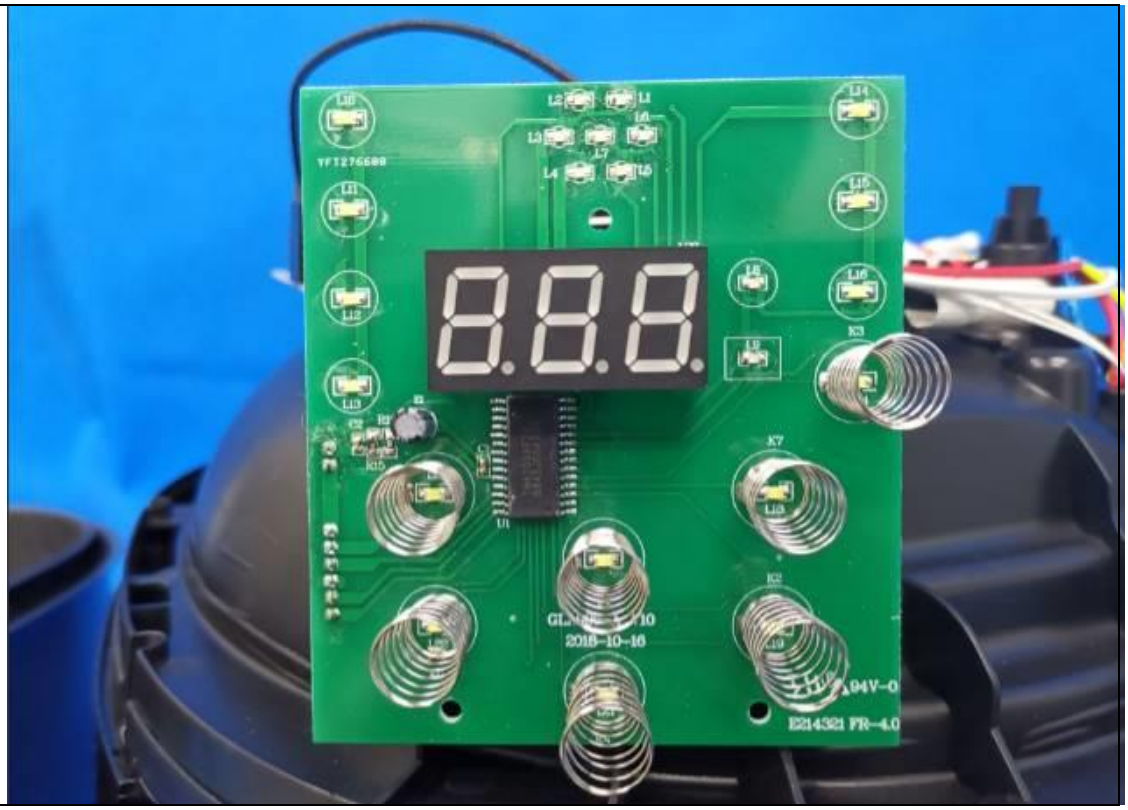

Detail of: Control PCB for GLA-906

View:

[ ] general

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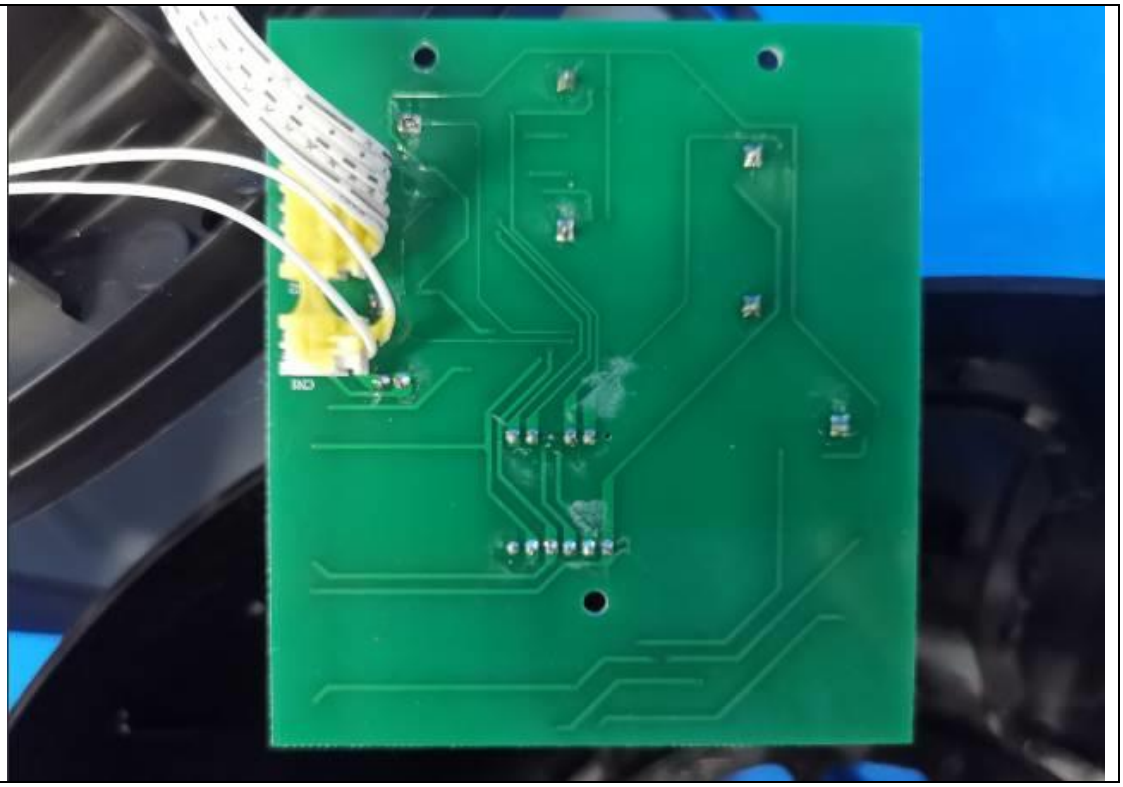

Detail of: **Alternative earthing connection for mechanical models**

View:

[ ] general

[ ] front

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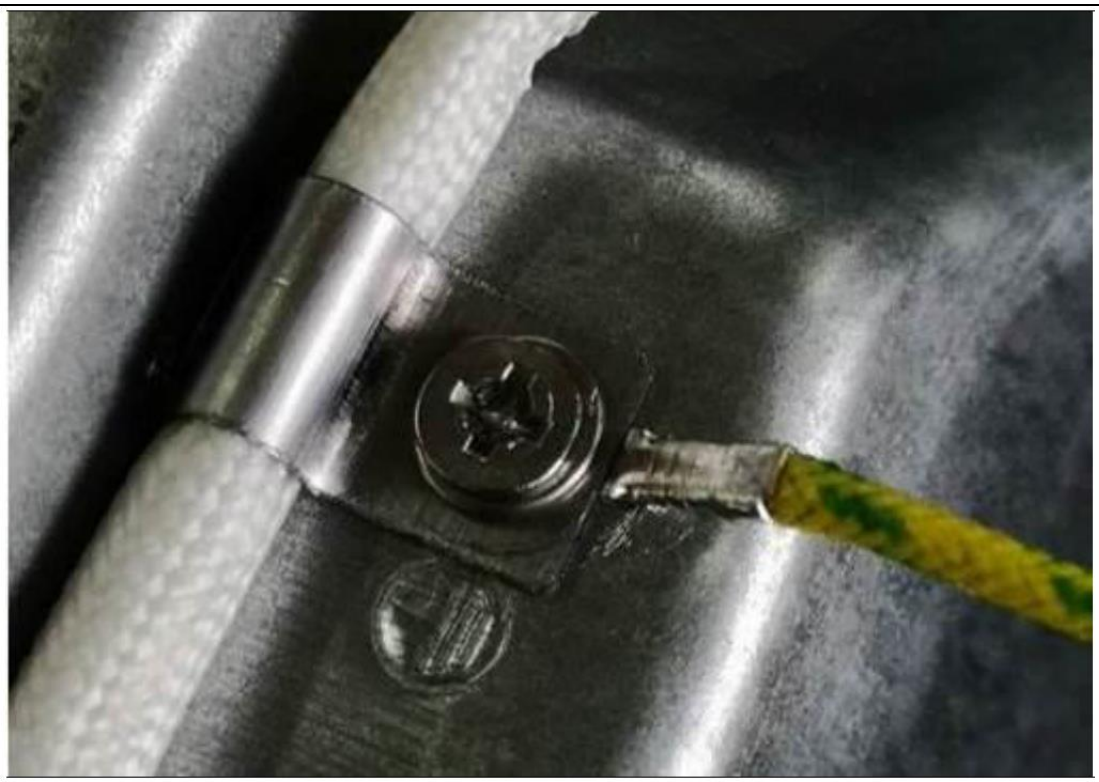

Detail of: **Alternative earthing connection for electronic models**

View:

[ ] general

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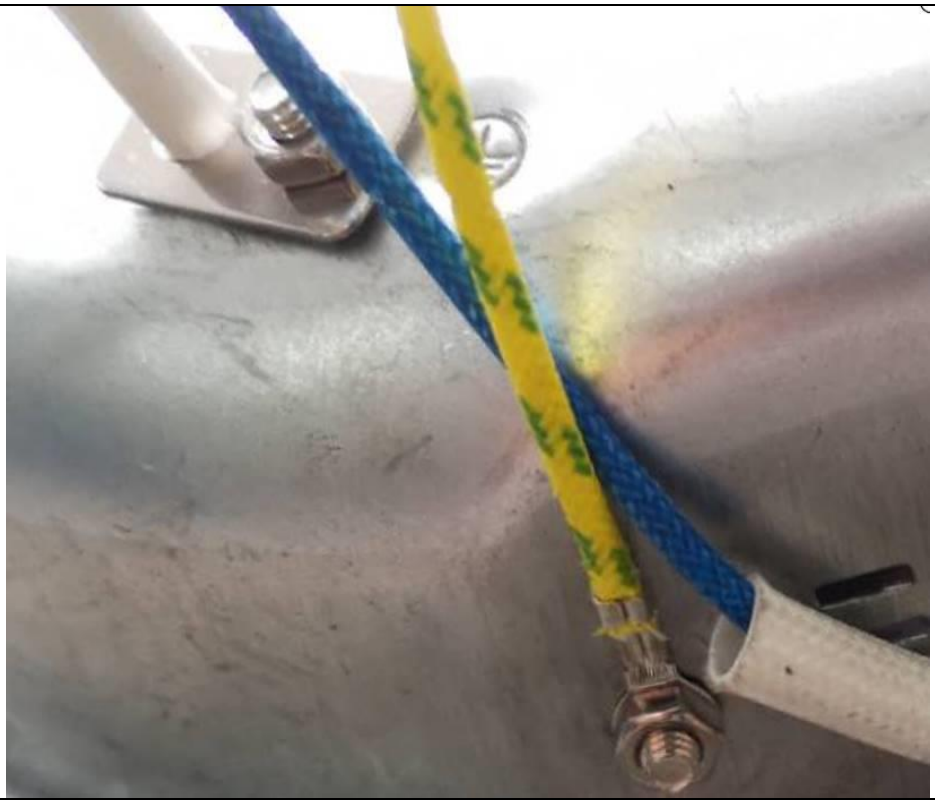

Detail of: **GLA-305**

View:

[ ] general

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-305**

View:

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Detail of: **GLA-305, GLA-306**

View:

[ ] general

[ ] front

[X] rear

[ ] right

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[ ] top

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Detail of: **GLA-305, GLA-306**

View:

[ ] general

[ ] front

[ ] rear

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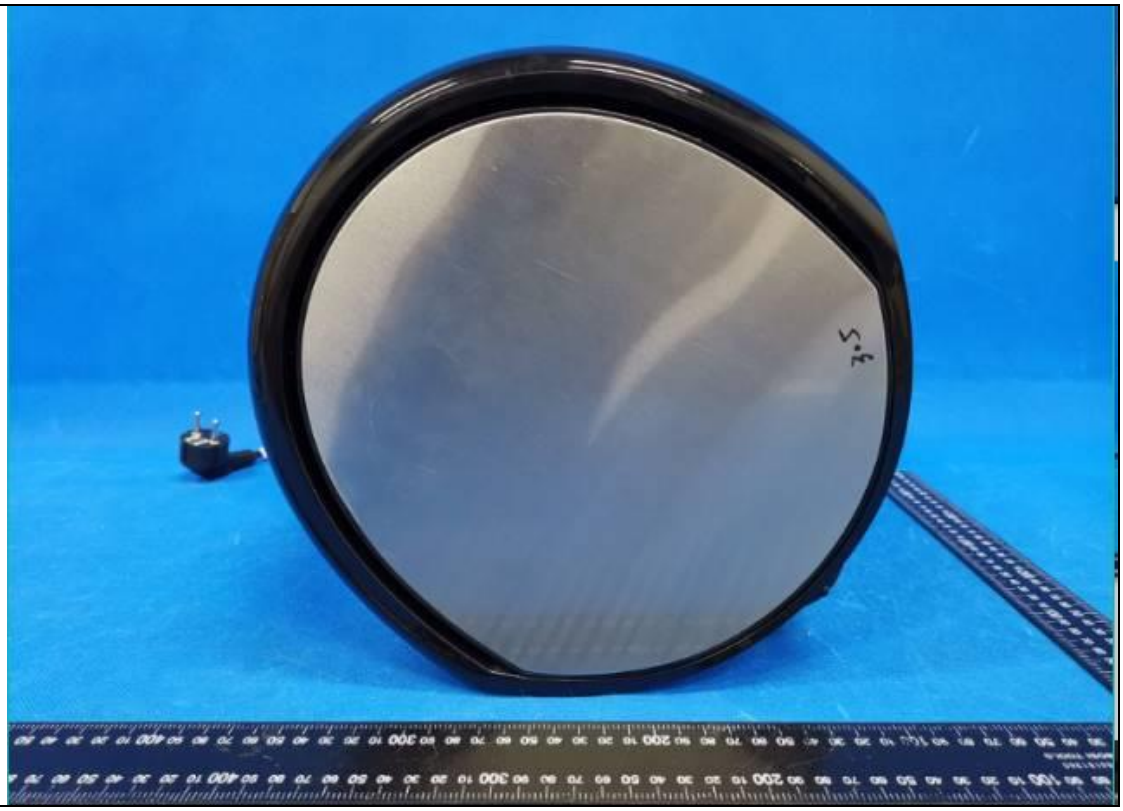

Detail of: **GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A**

View:

[ ] general

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[X] bottom

Detail of: **Marking for GLA-305**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

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Detail of: **Open view for GLA-305**

View:

[ ] general

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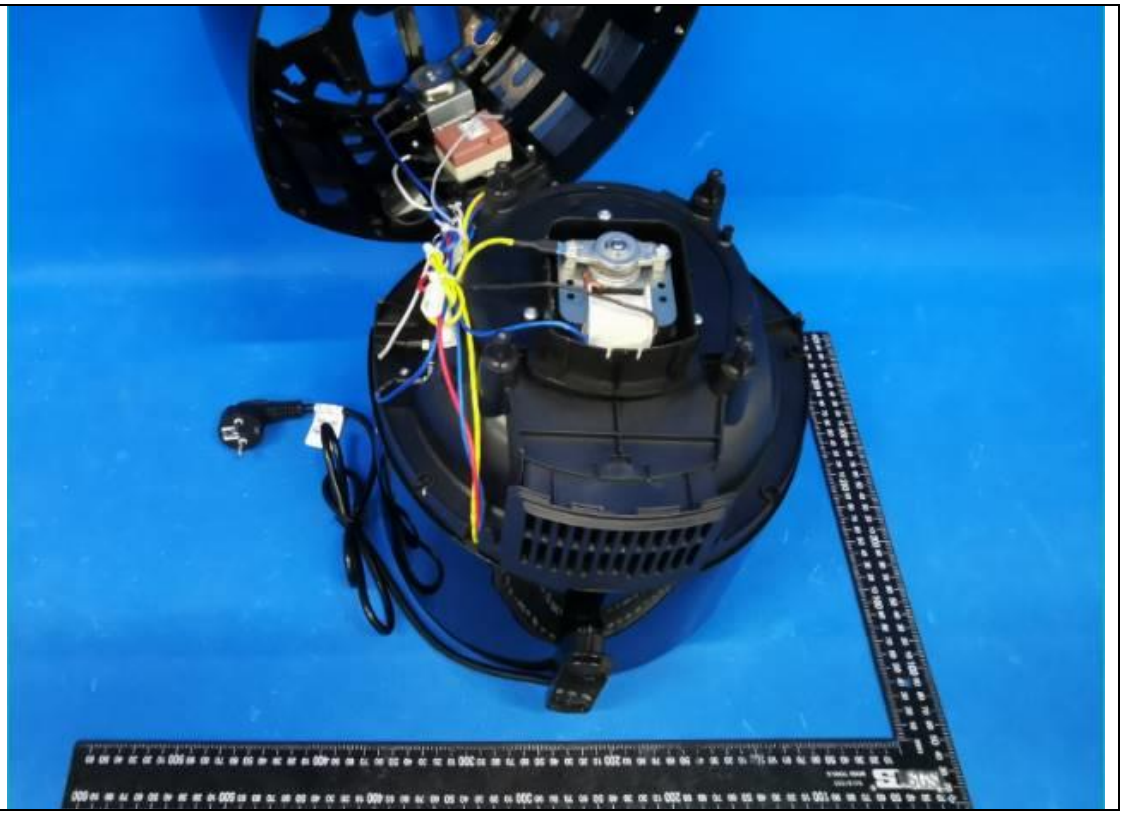

Detail of: **Open view for GLA-305**

View:

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Detail of: **Open view for GLA-305, GLA-306**

View:

[ ] general

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[ ] rear

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[ ] top

[ ] bottom

Micro switch

Detail of: **Open view for GLA-305, GLA-306**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

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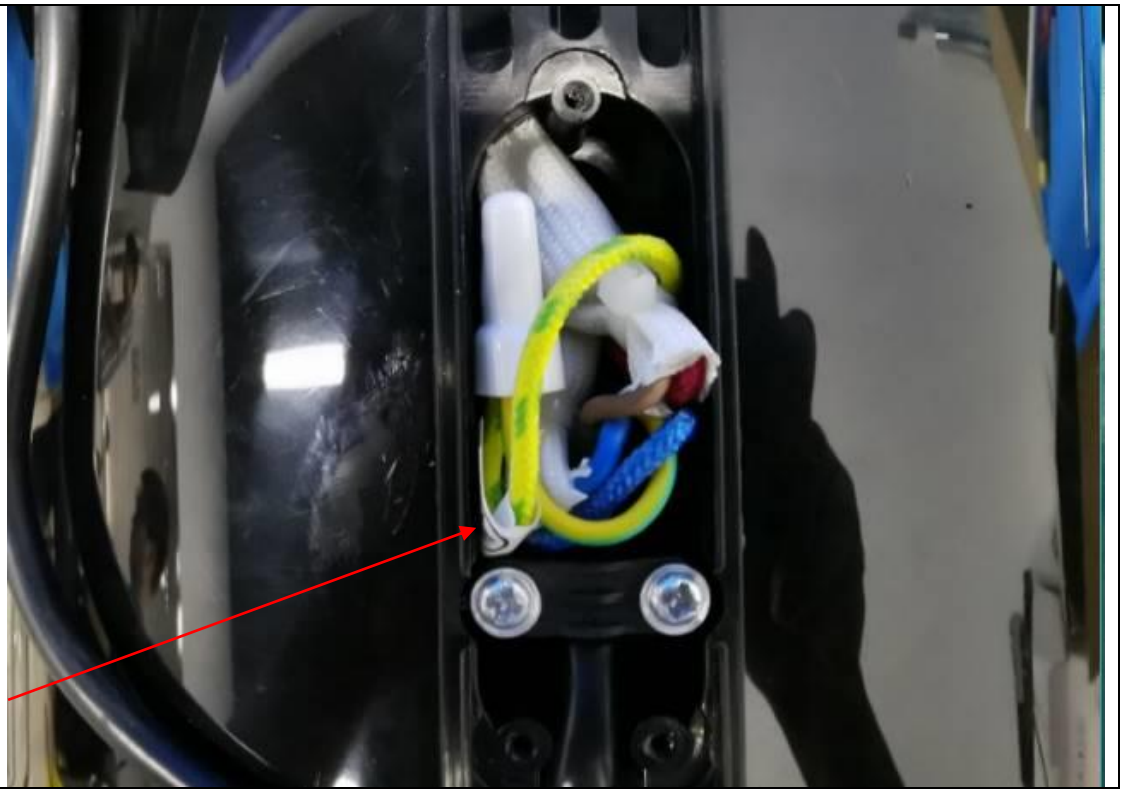
[ ] top

[ ] bottom



Detail of: **Alternative cord anchorage construction**

View:

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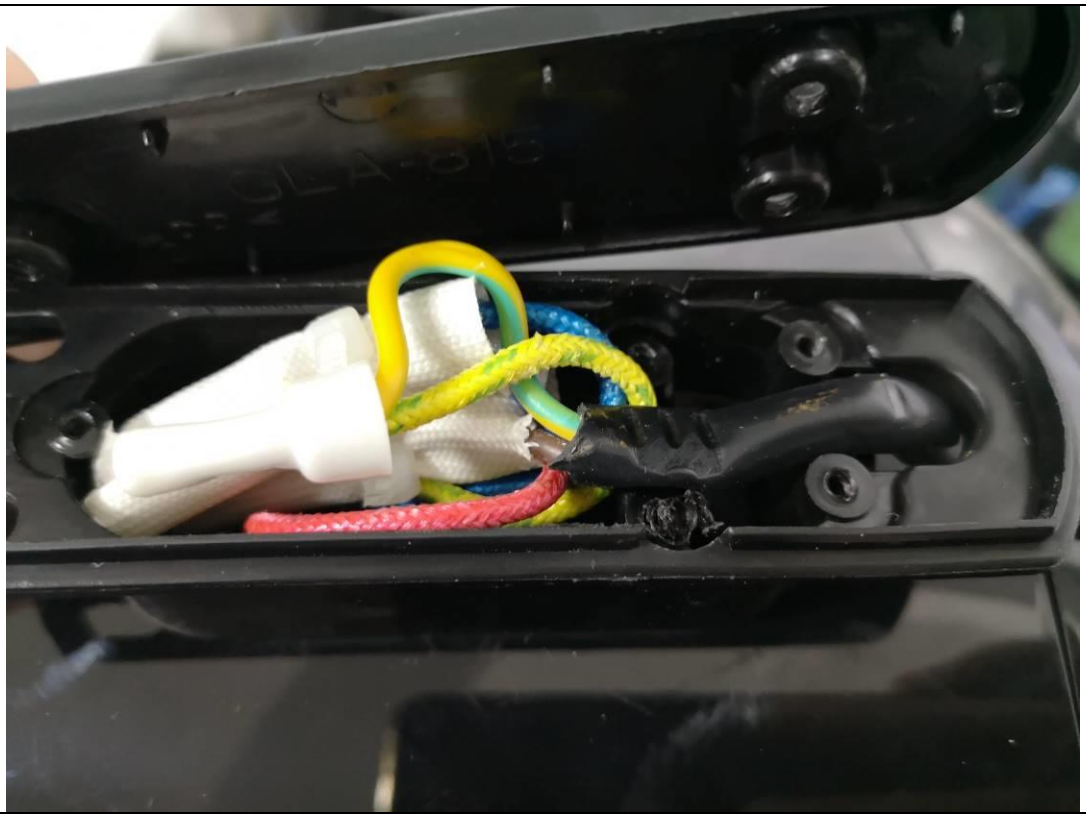

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-305 open view (heating element for GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-617, GLA-618)**

View:

[ ] general

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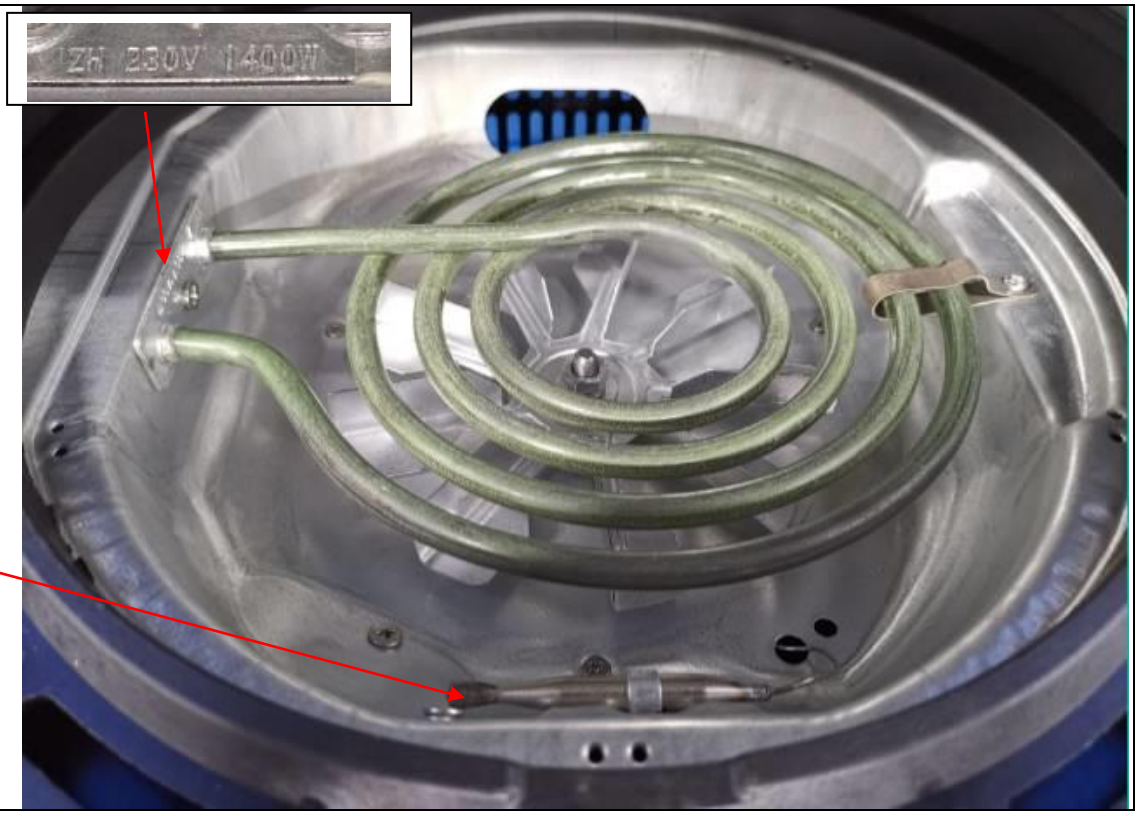
Thermostat sensor head



Detail of: **GLA-306**

View:

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Detail of: **GLA-306**

View:

[ ] general

[X] front

[ ] rear

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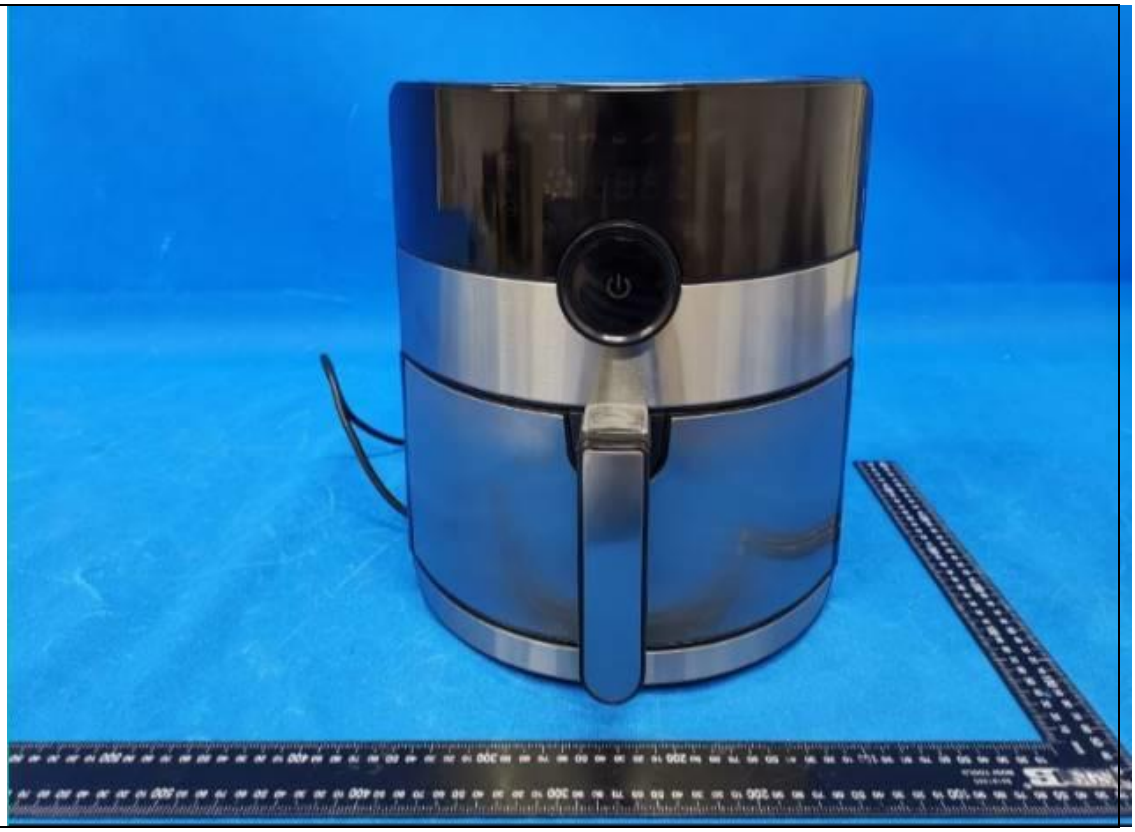
[ ] bottom



Detail of: **GLA-306 open view**

View:

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Detail of: **GLA-306 open view**

View:

[ ] general

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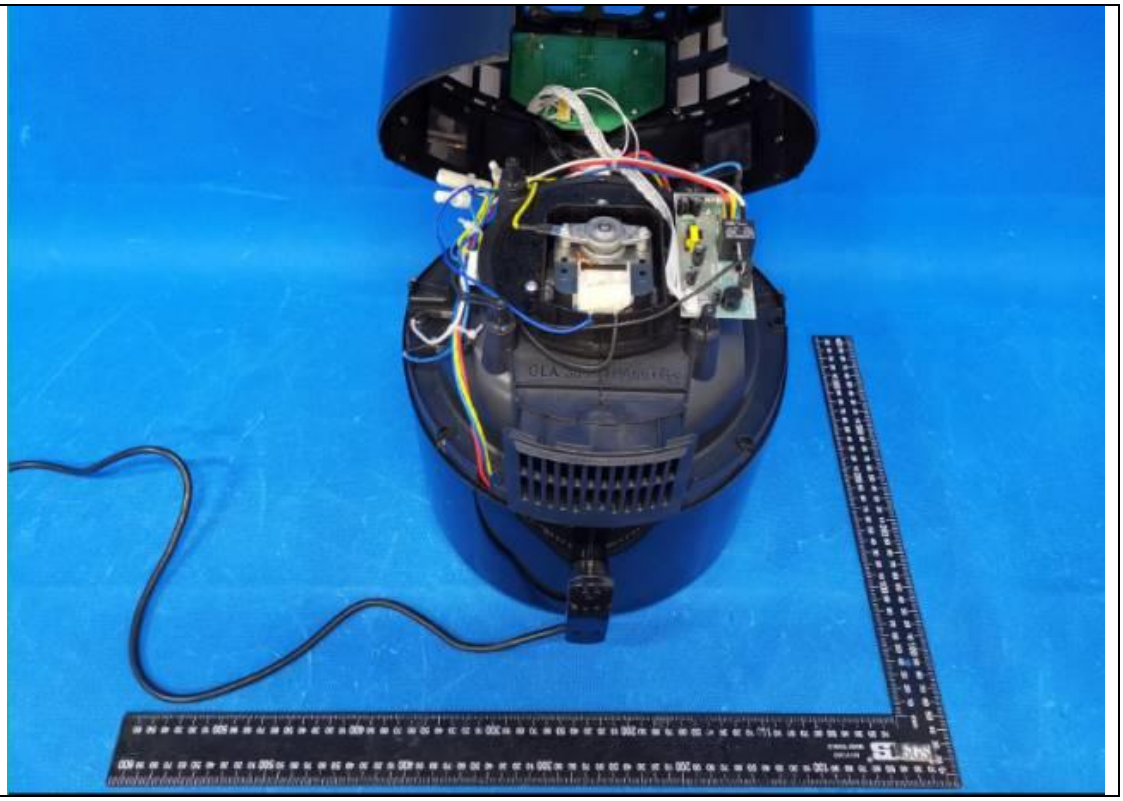

Detail of: **Control PCB for GLA-306**

View:

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Detail of: **Control PCB for GLA-306**

View:

[ ] general

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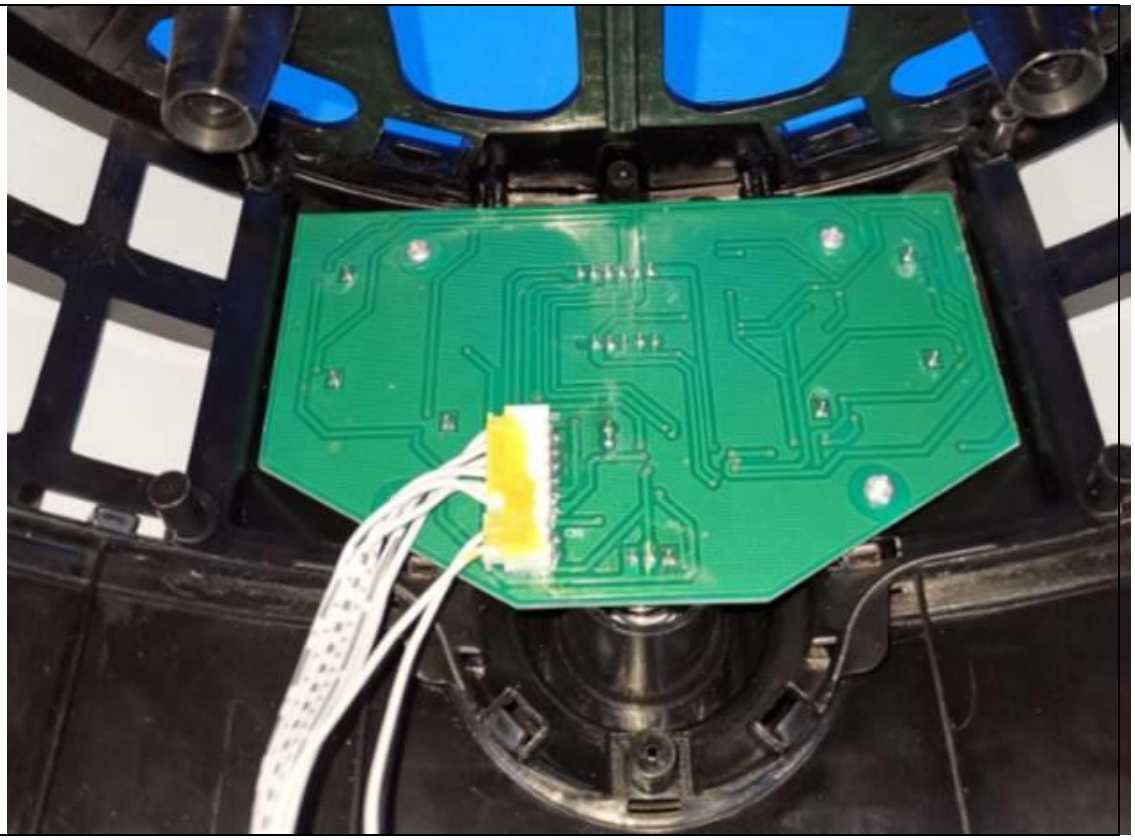

Detail of: **Terminals of heating element for all the models**

View:

[ ] general

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[ ] bottom

Detail of: **Open view for GLA-306**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom

Detail of: **Open view for GLA-306**

View:

[ ] general

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[ ] rear

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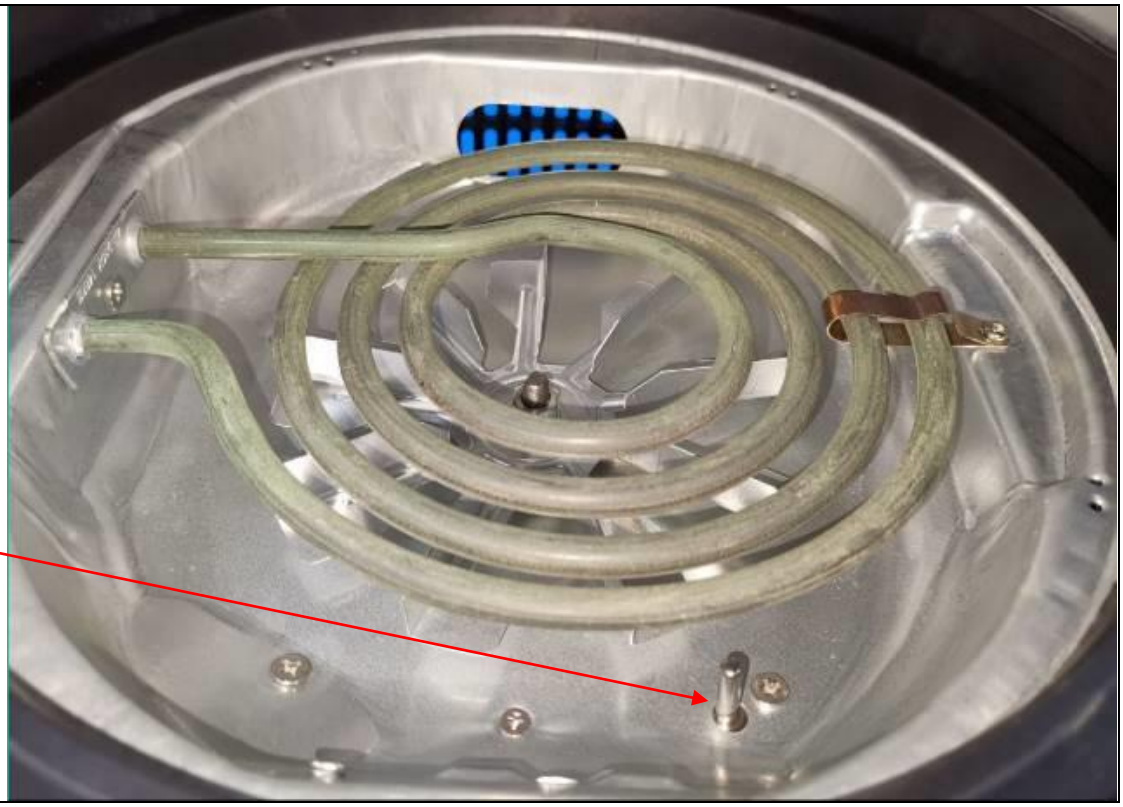
[ ] bottom

NTC position



Detail of: **GLA-307, GLA-501(bigger than GLA-307)**

View:

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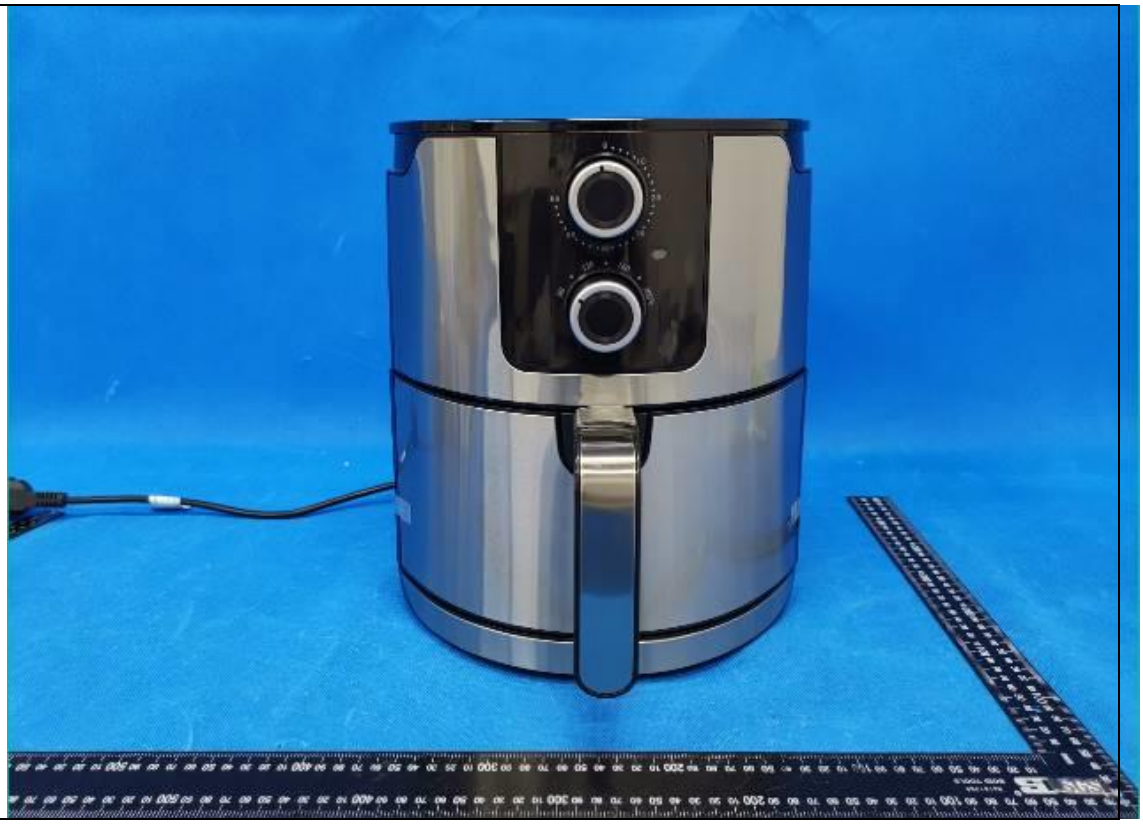

Detail of: **GLA-307, GLA-501, GLA-308, GLA-502, GLA-308A**

View:

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Detail of: **GLA-501, GLA-502, GLA-502A**

View:

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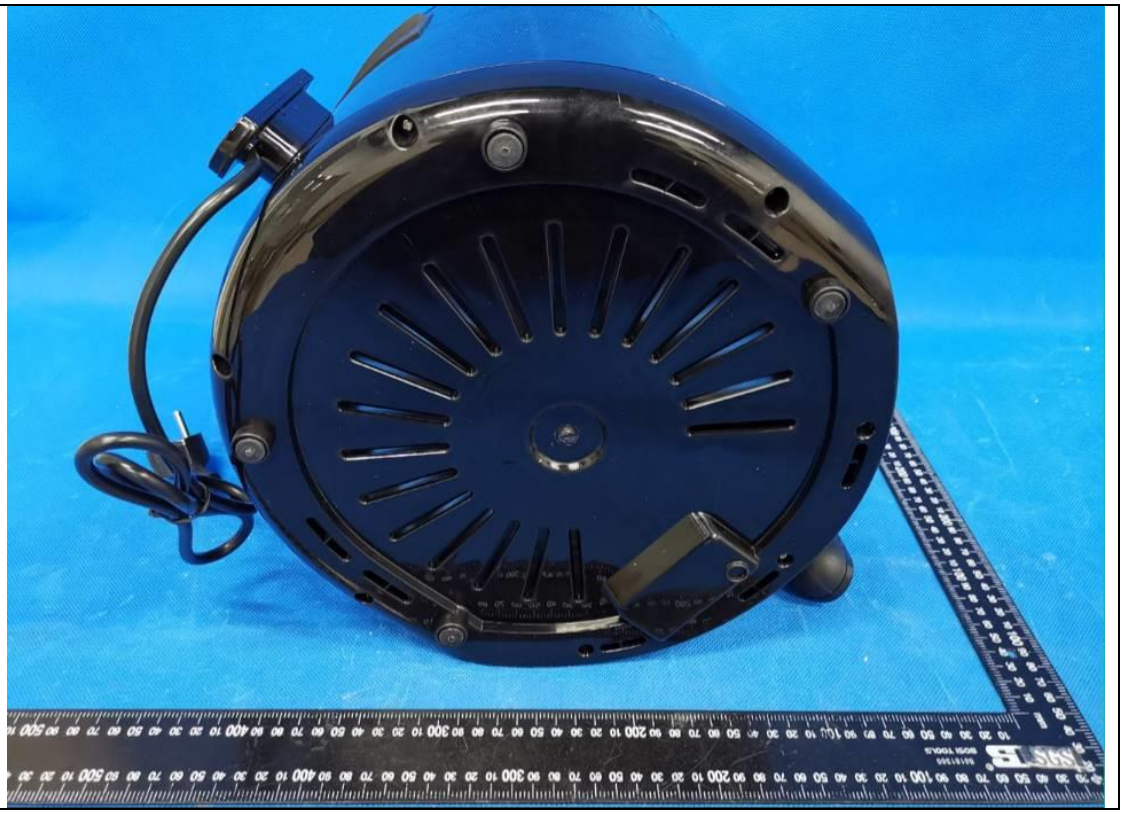
[X] bottom



Detail of: **GLA-307, GLA-501**

View:

[ ] general

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[ ] rear

[X] right

[X] left

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Annex II Photo documentation
Roaster (Air Fryer)
GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-307, GLA-501, GLA-308, GLA-502, GLA-308A**

View:

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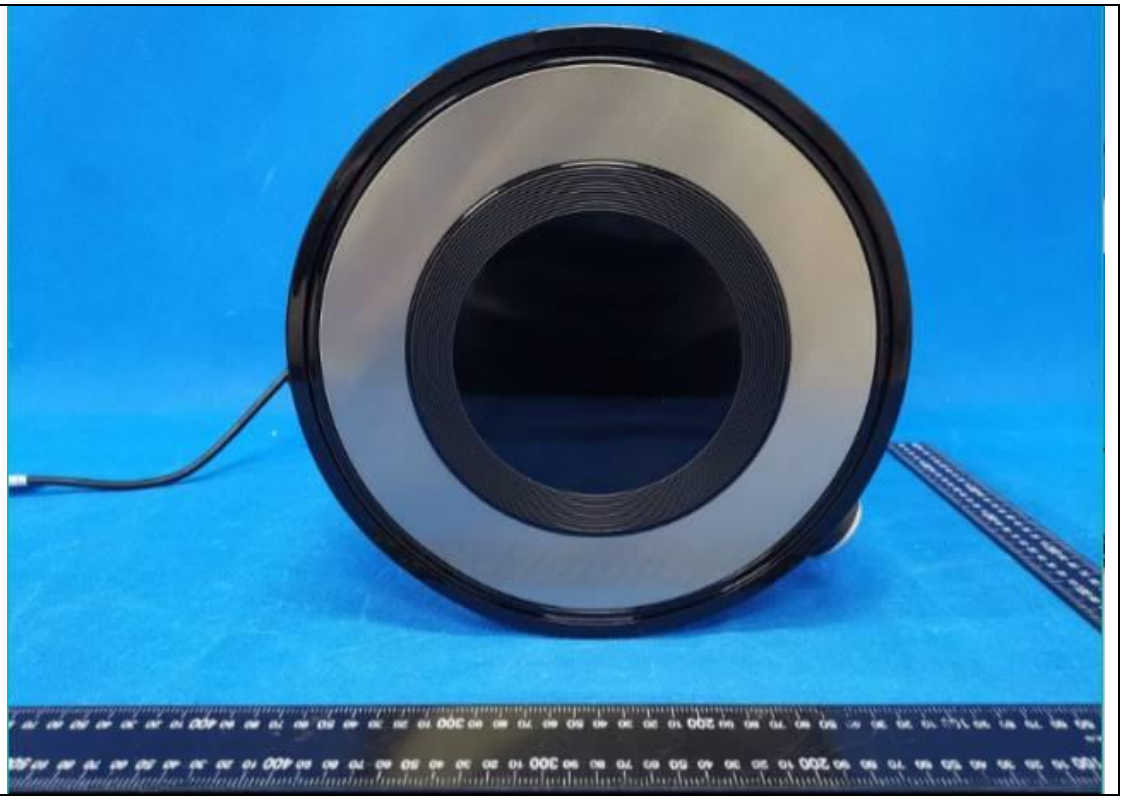

Detail of: **Marking for GLA-307, GLA-501**

View:

[ ] general

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Detail of: **GLA-307, GLA-501 open view**

View:

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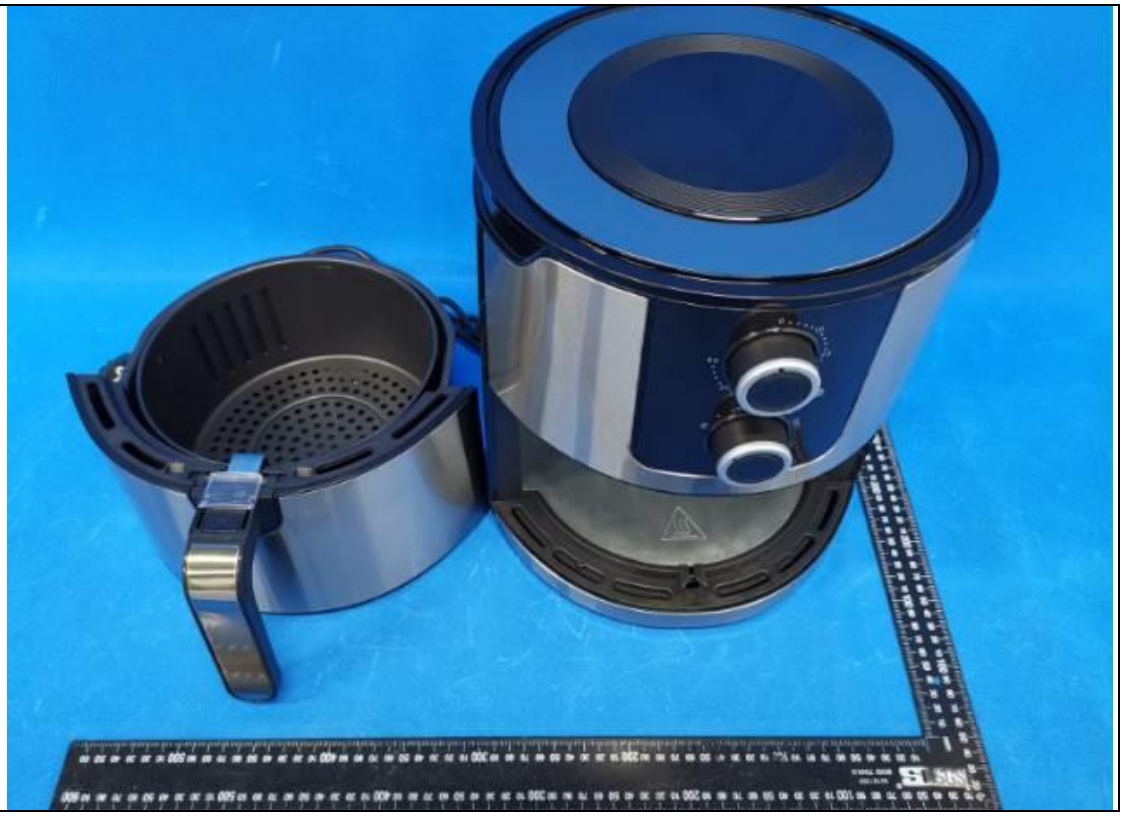

Detail of: **GLA-307, GLA-501 open view**

View:

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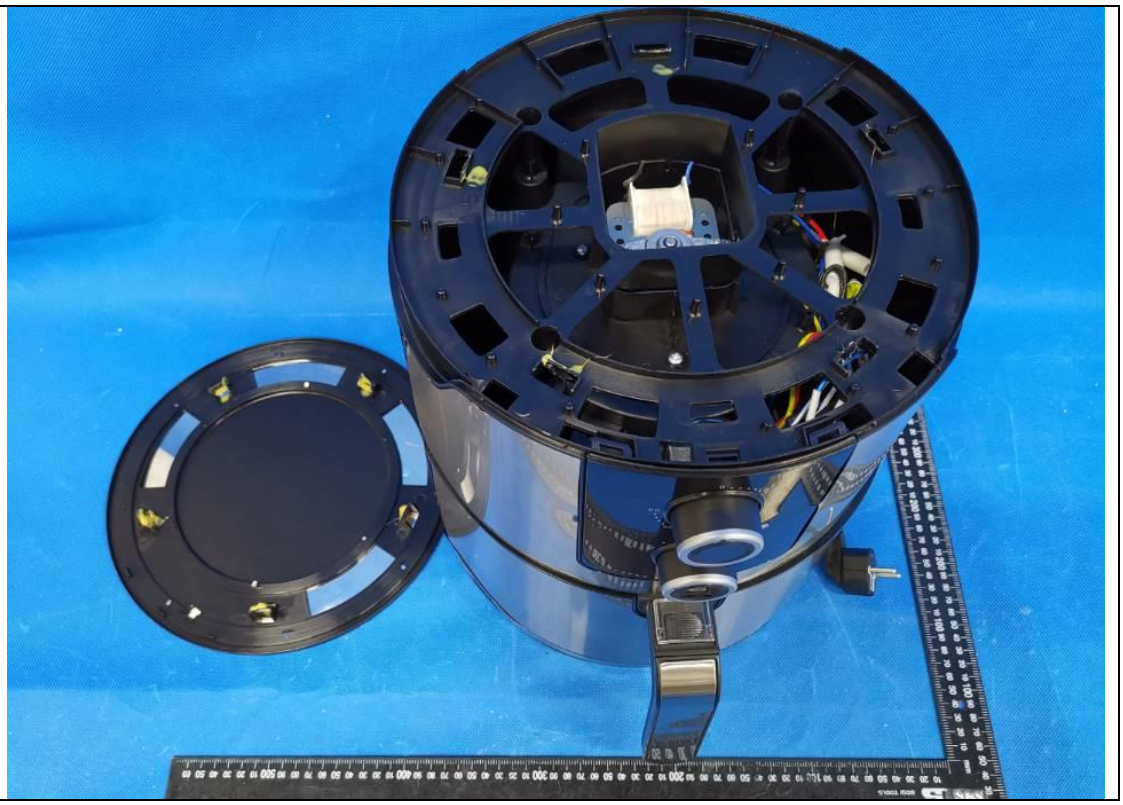

Detail of: **GLA-307, GLA-501 open view**

View:

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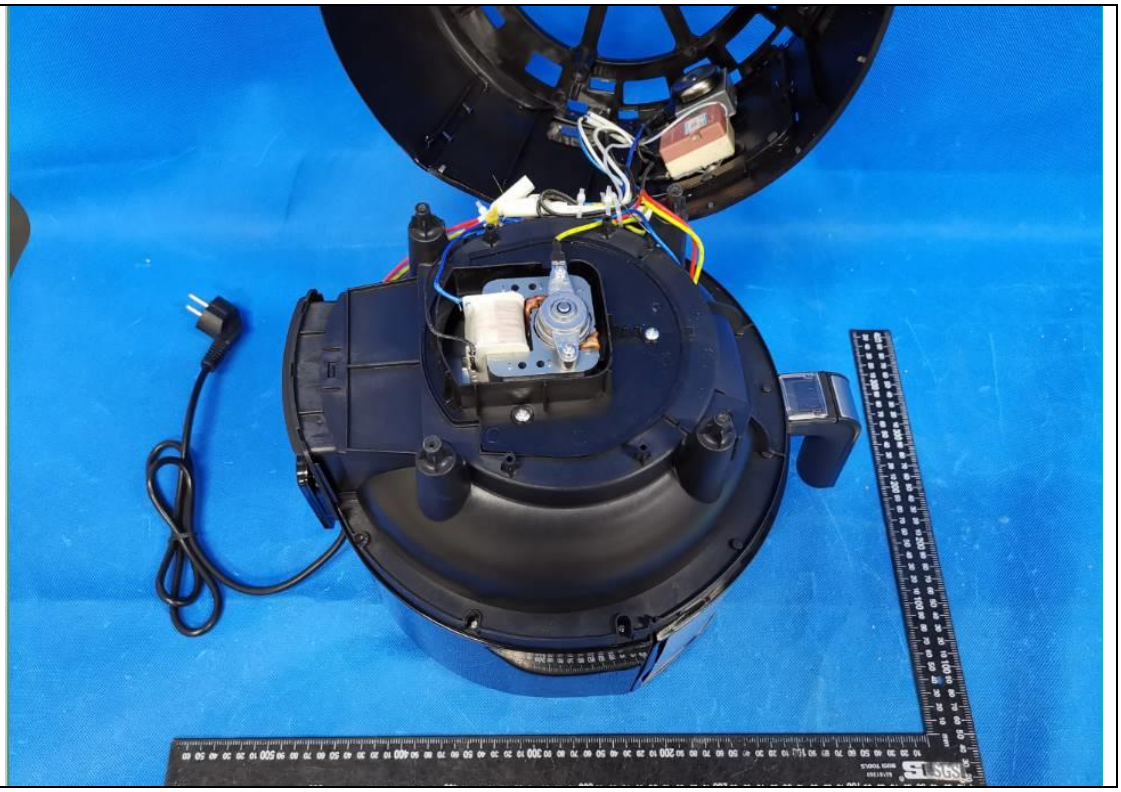


Detail of: **Terminals of heating element for all the models**

View:

[ ] general

[ ] front

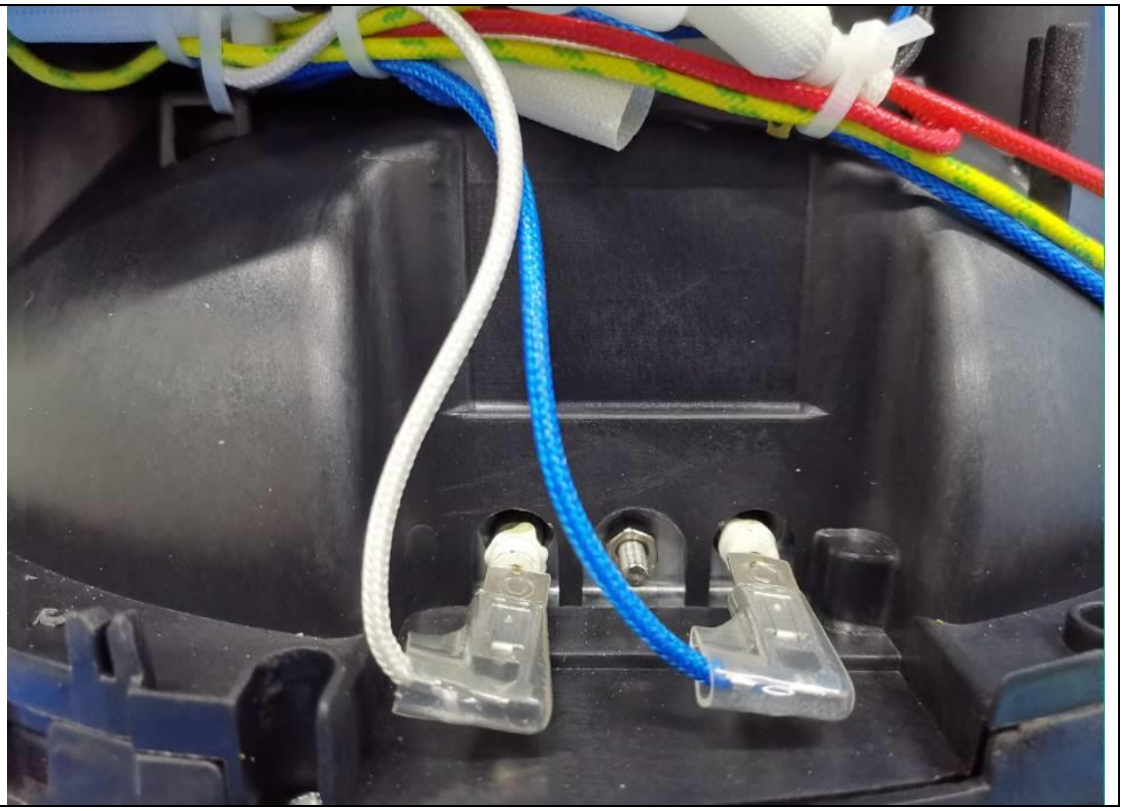
[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom



Detail of: **GLA-308(left), GLA-502(right)**

View:

[X] general

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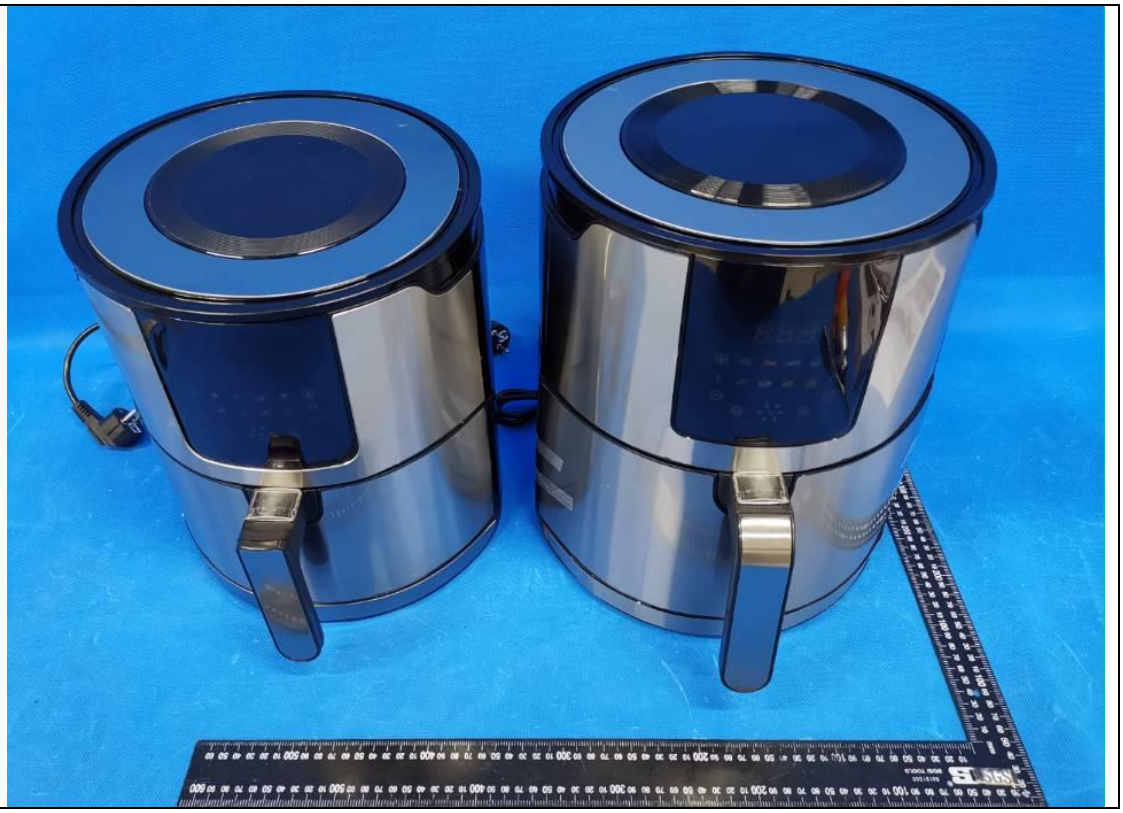

Detail of: **Control PCB for GLA-308**

View:

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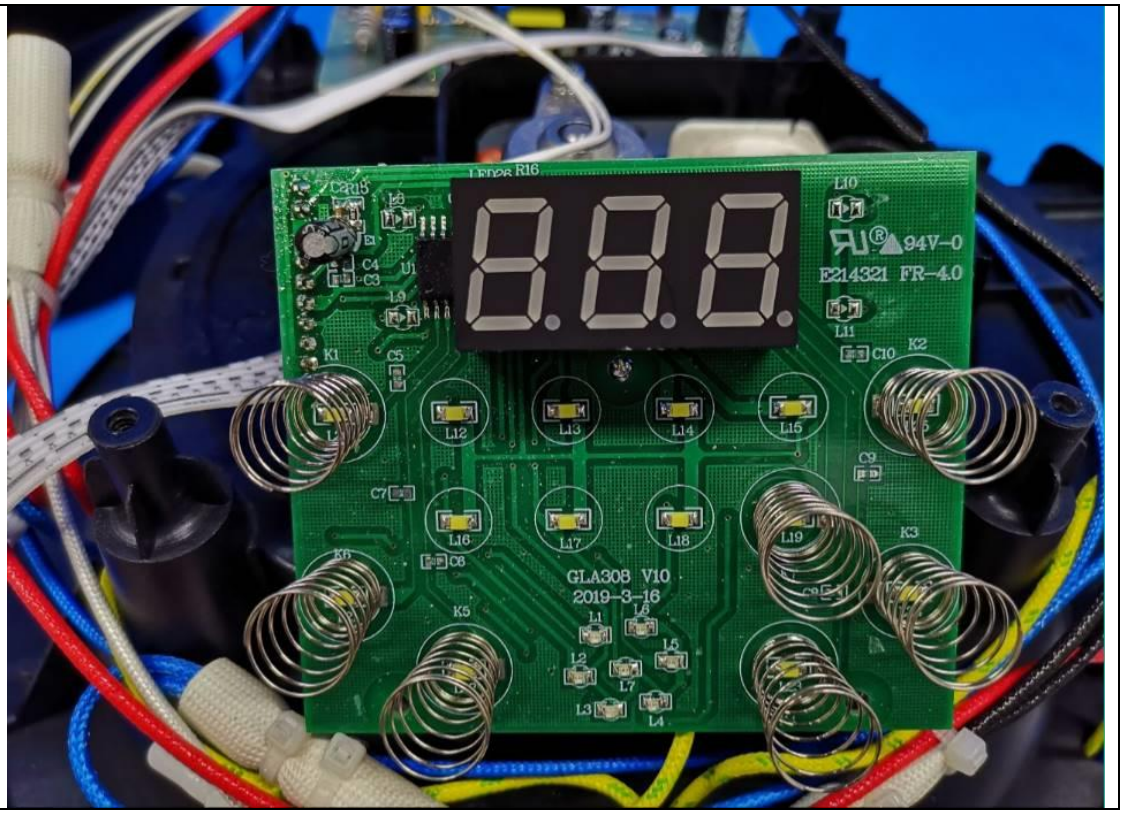

Detail of: **Control PCB for GLA-308**

View:

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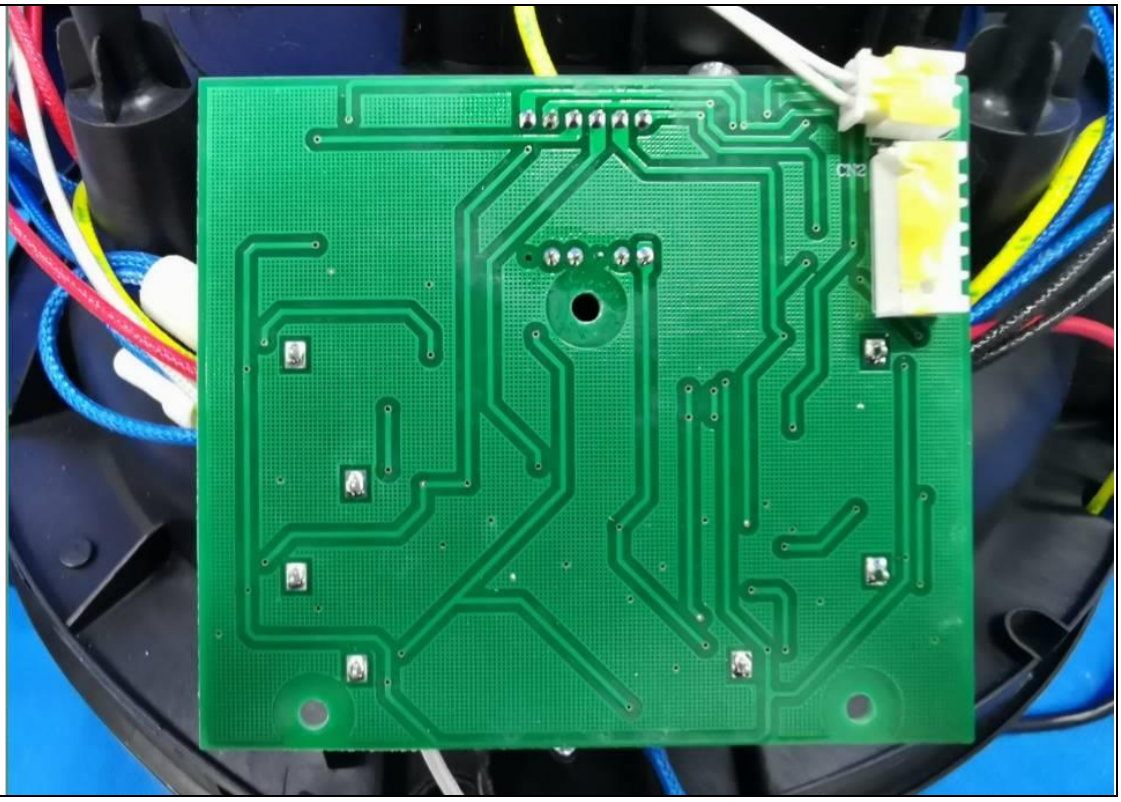

Detail of: **Control PCB for GLA-502**

View:

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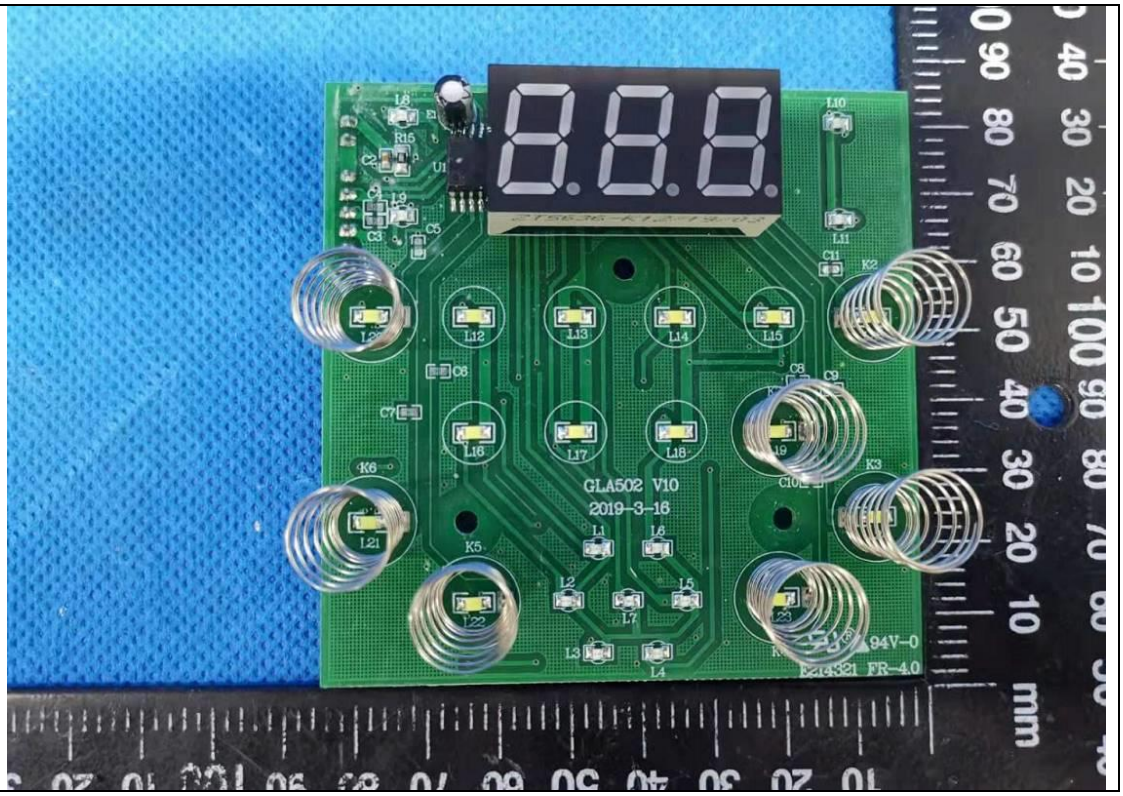

z

Detail of: **Control PCB for GLA-502**

View:

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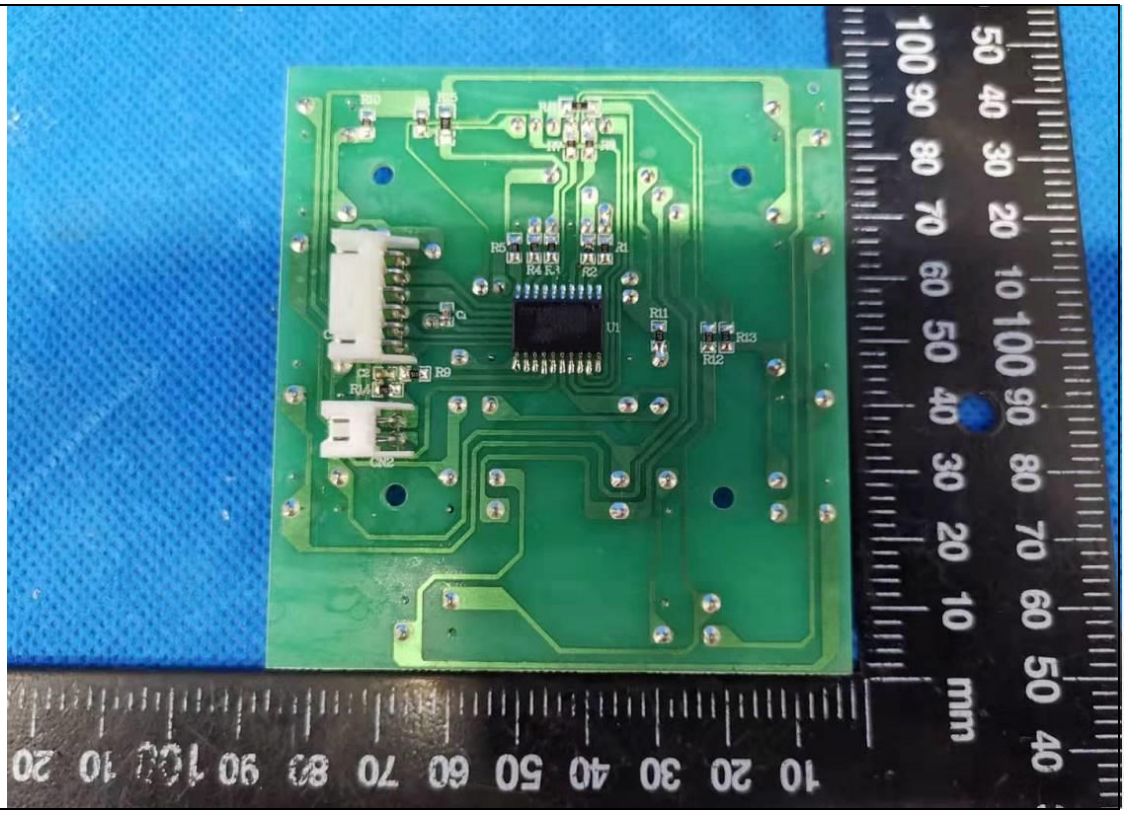

Detail of: **GLA-502A(left) and GLA-308A(right)**

View:

[ ] general

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Detail of: **Control panel for GLA-502A and GLA-308A**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom

Detail of: **Control PCB for GLA-308A**

View:

[ ] general

[ ] front

[ ] rear

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **Control PCB for GLA-308A**

View:

[ ] general

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[ ] rear

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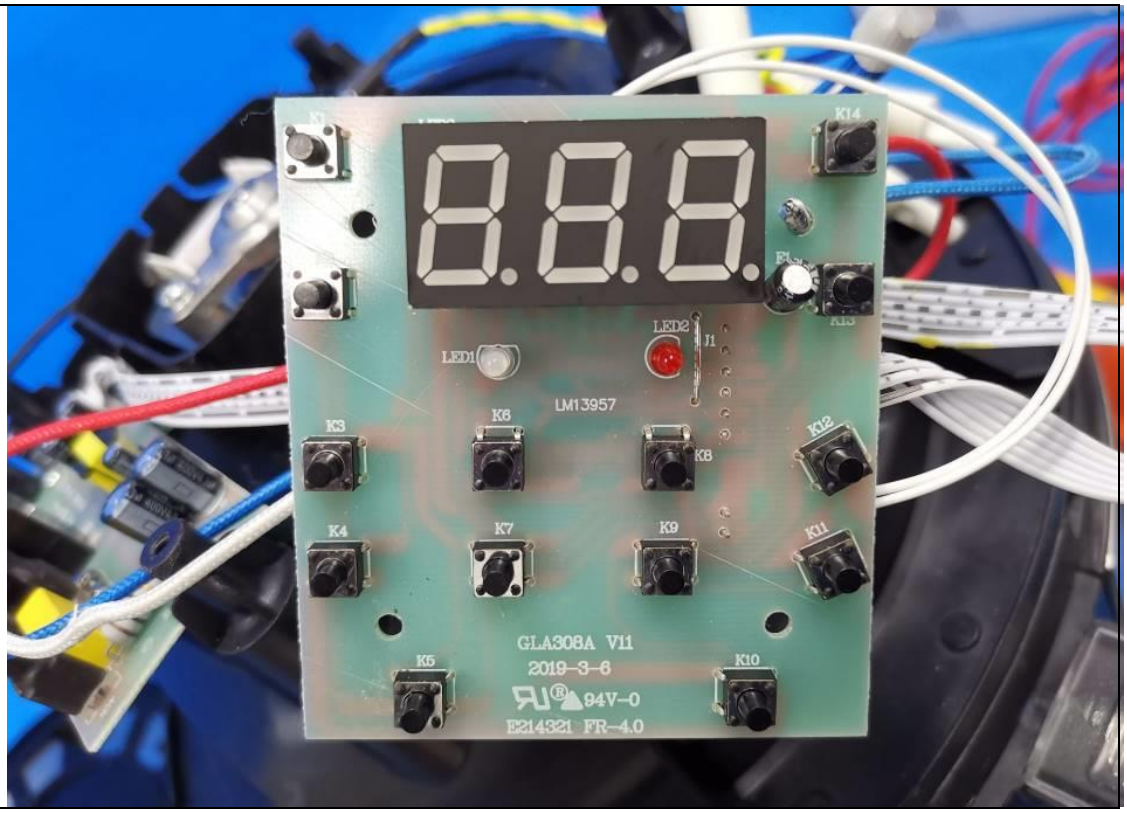

Detail of: **Control PCB for GLA-502A**

View:

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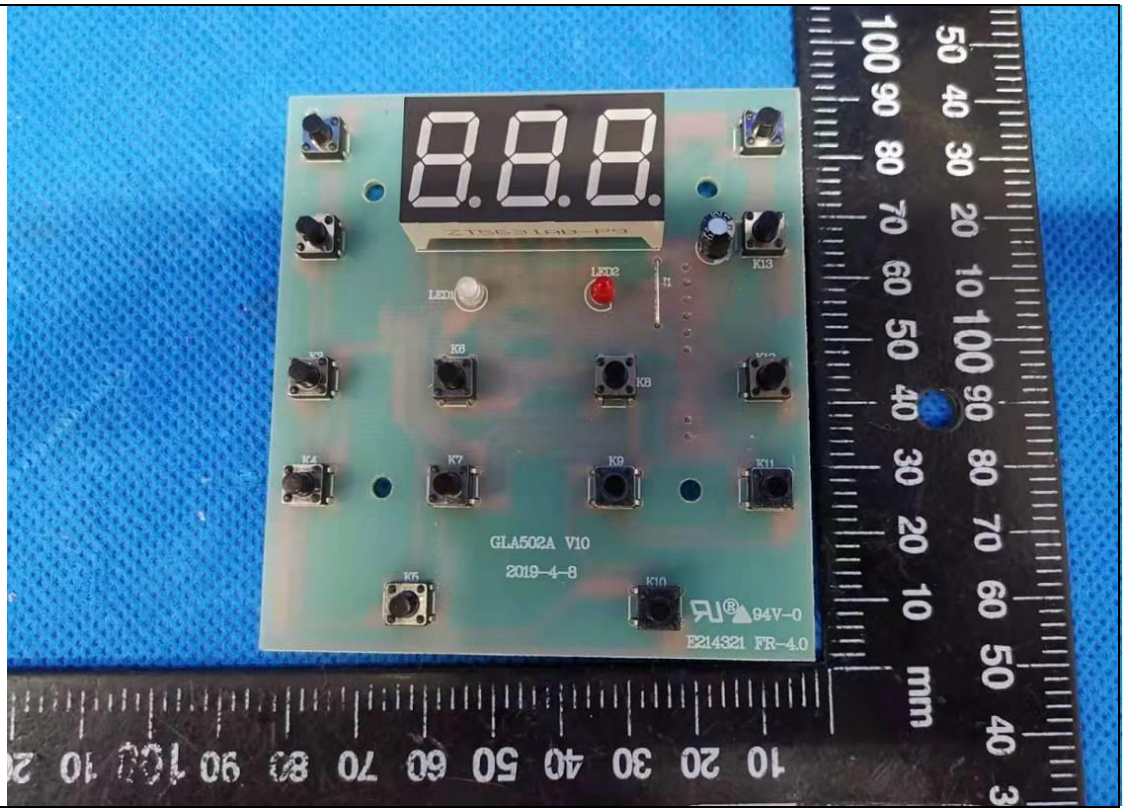

Detail of: **Control PCB for GLA-502A**

View:

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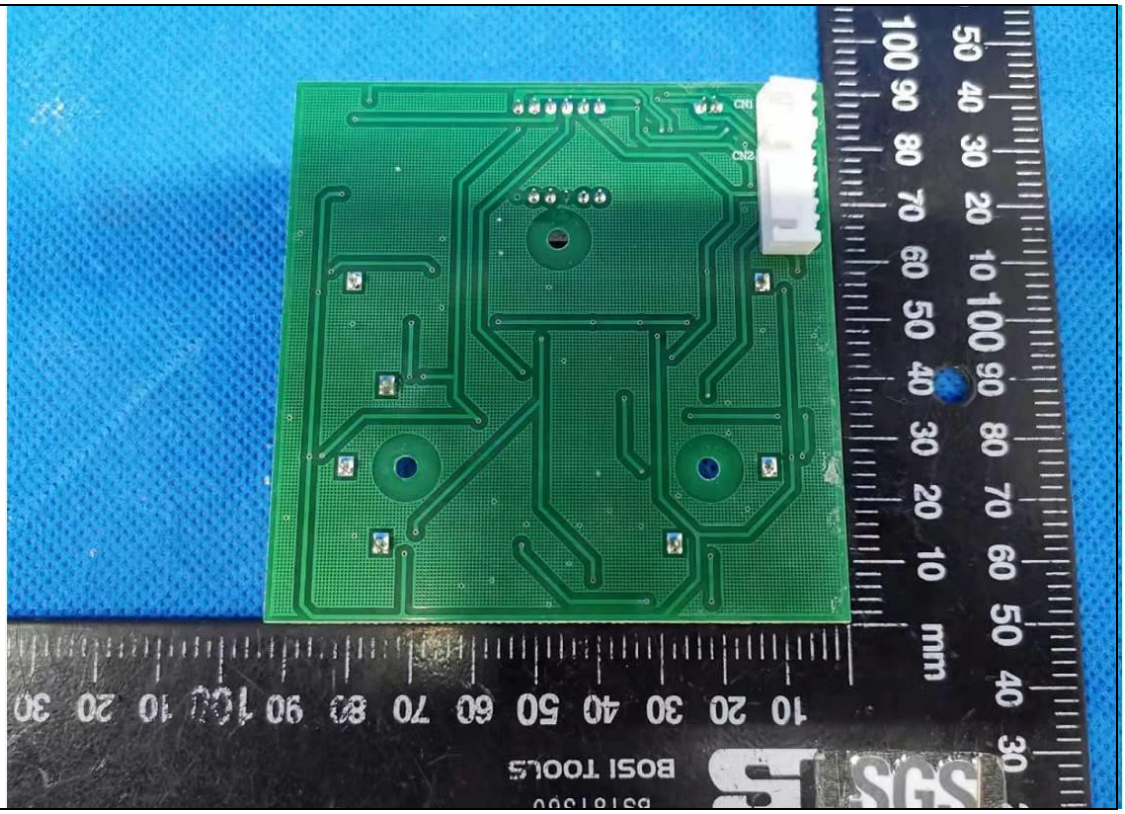

Detail of: **Open view for GLA-306, GLA-308, GLA-502, GLA-308A, GLA-502A**

View:

[ ] general

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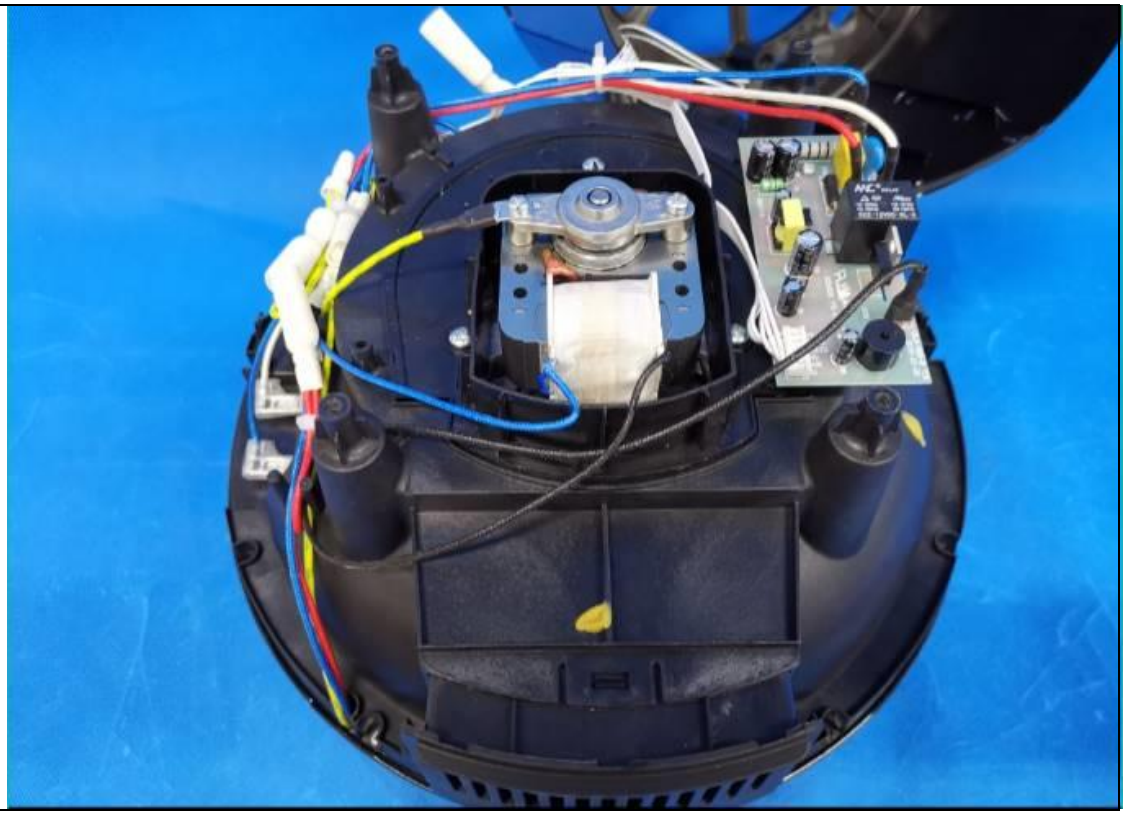

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-617**

View:

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Detail of: **GLA-617**

View:

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[ ] bottom

Detail of: **GLA-617 open view**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom

Detail of: **GLA-617 open view**

View:

[ ] general

[ ] front

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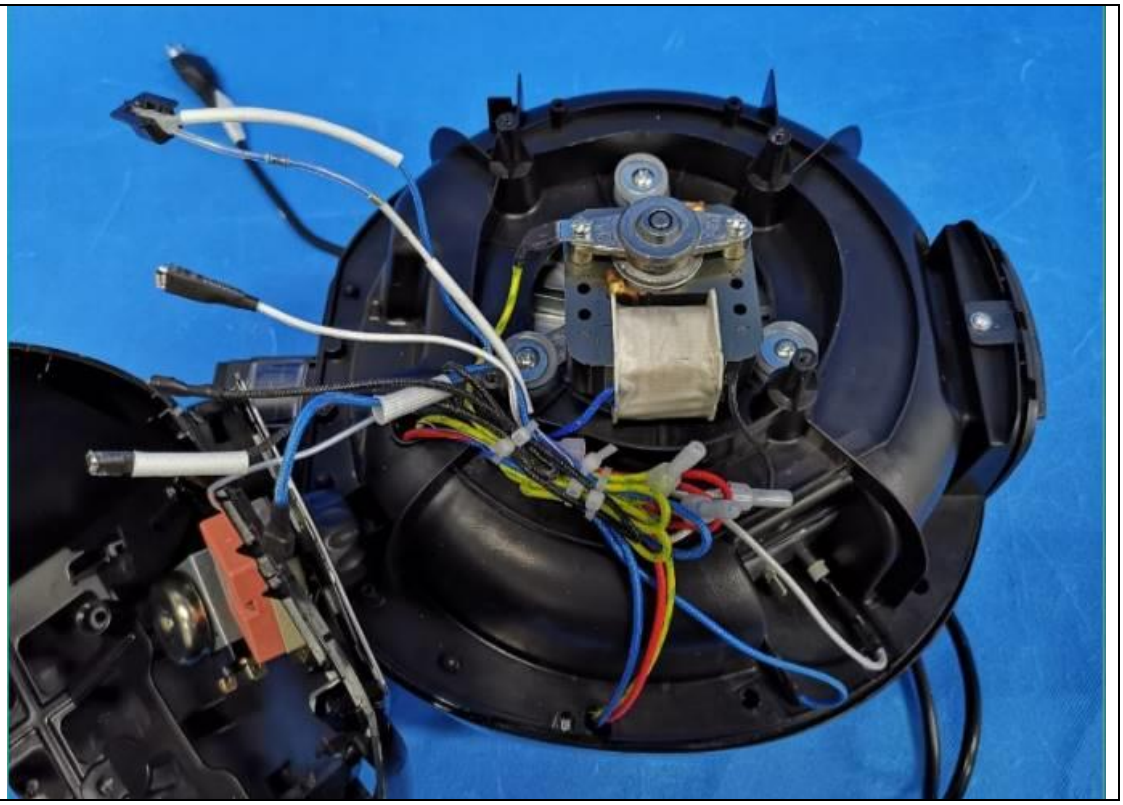
[ ] bottom



Detail of: **GLA-618**

View:

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[ ] bottom

Detail of: **GLA-618**

View:

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[ ] bottom

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-617, GLA-618**

View:

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[ ] bottom

Detail of: **GLA-617, GLA-618**

View:

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-618**

View:

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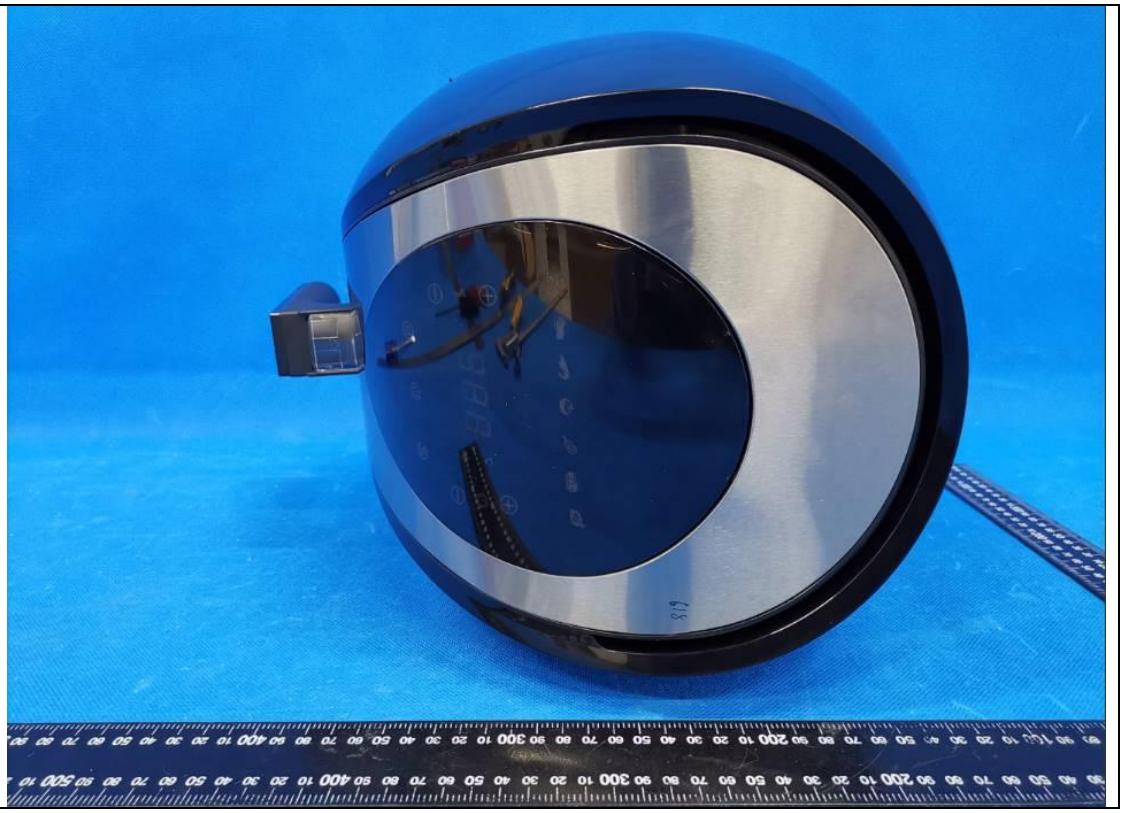

Detail of: **GLA-617, GLA-618 open view**

View:

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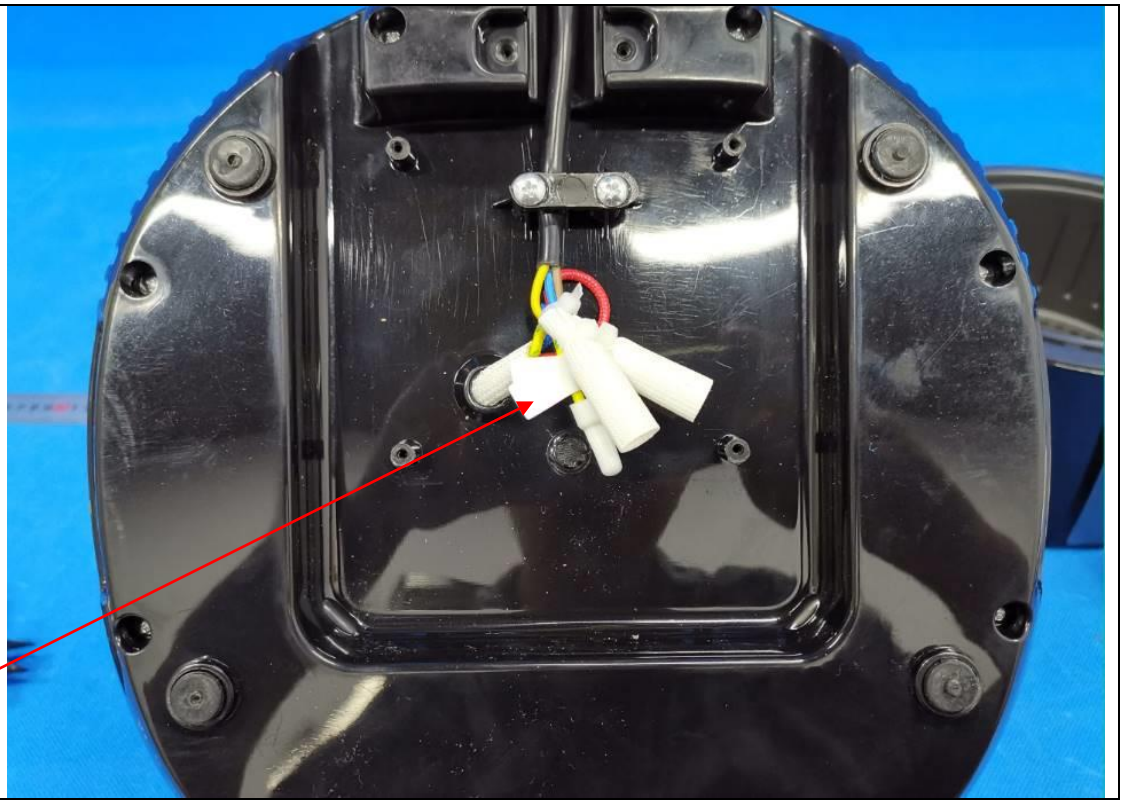

Detail of: **GLA-617, GLA-618 bottom enclosure open view**

View:

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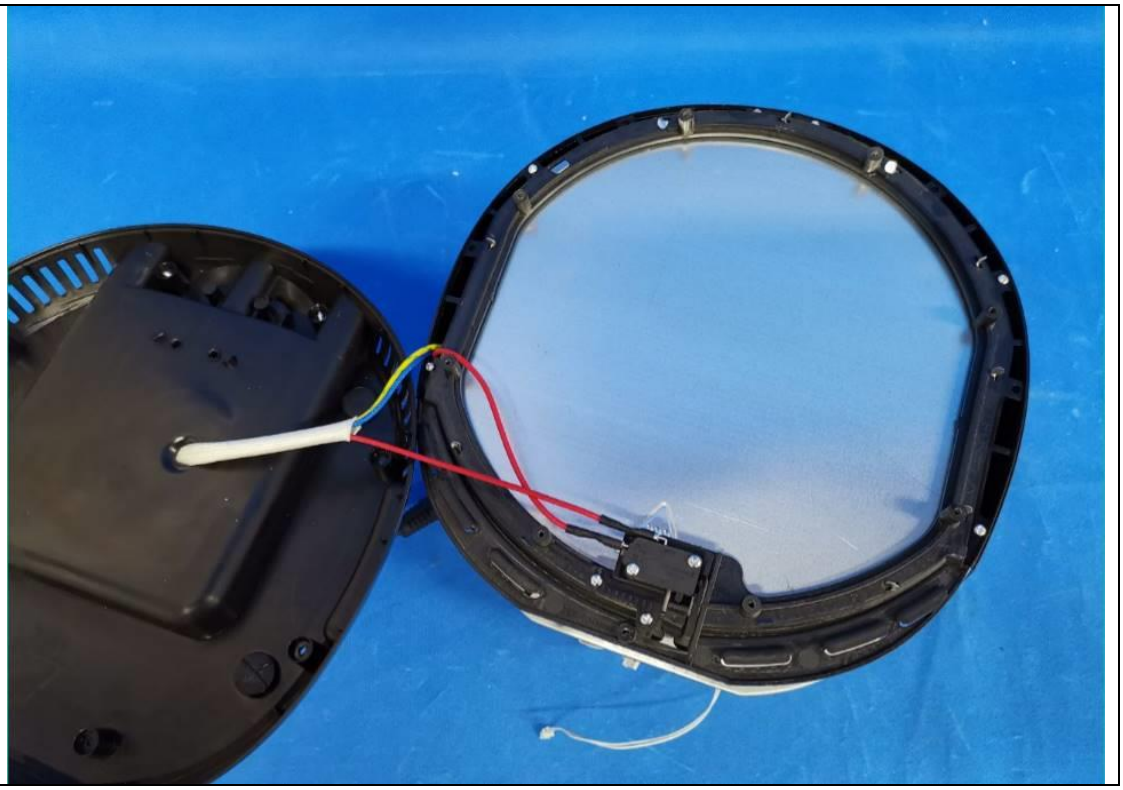

Detail of: **GLA-618 open view**

View:

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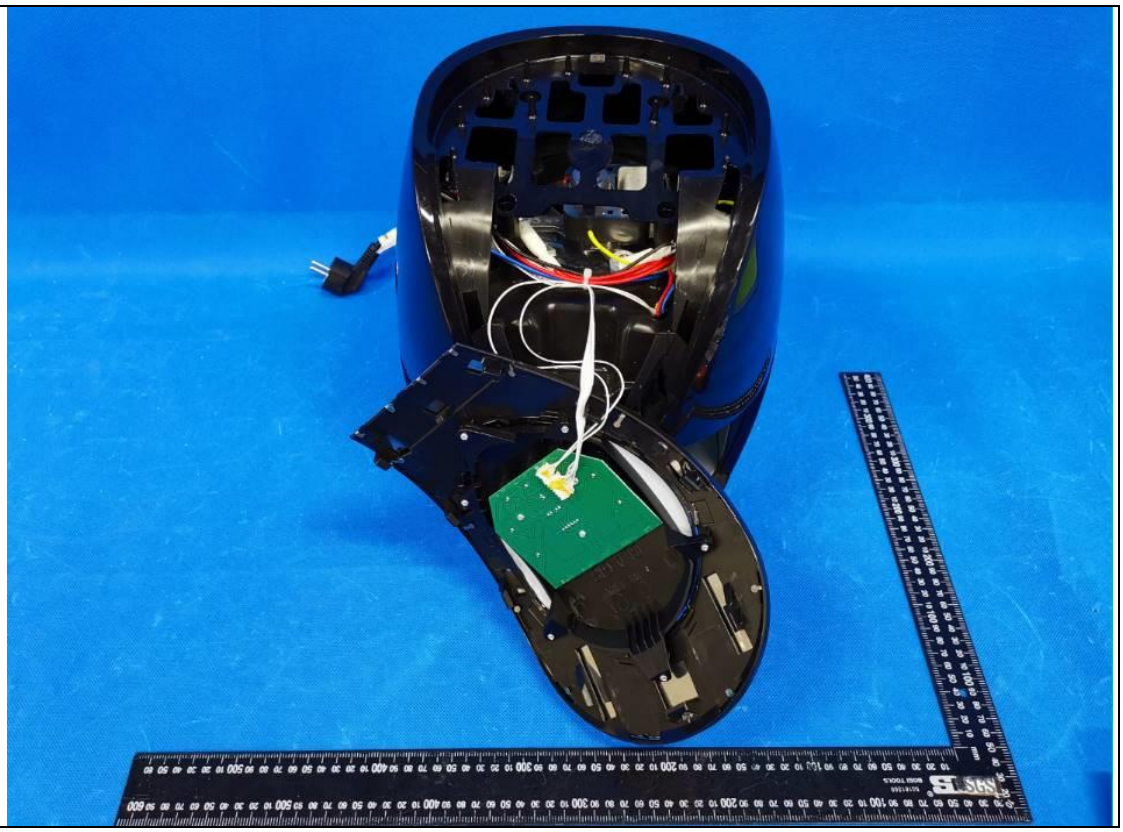

Detail of: **GLA-618 open view**

View:

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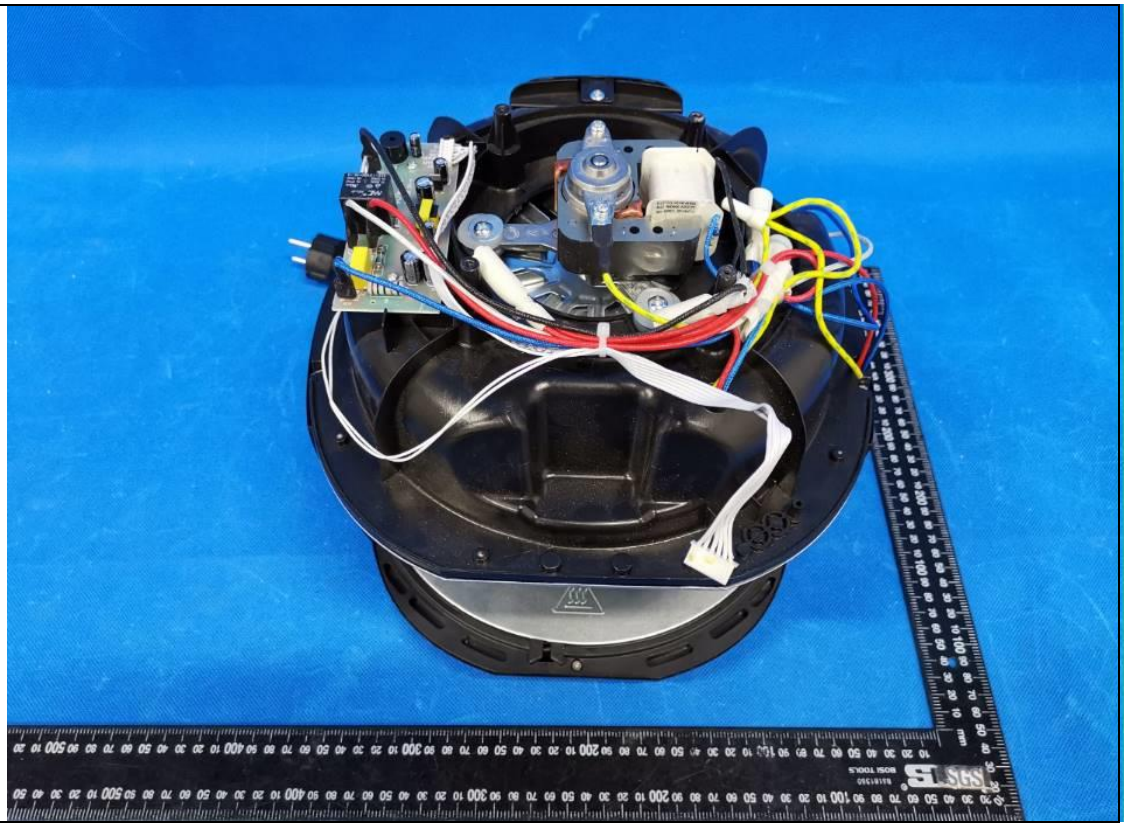

Detail of: **GLA-618 open view**

View:

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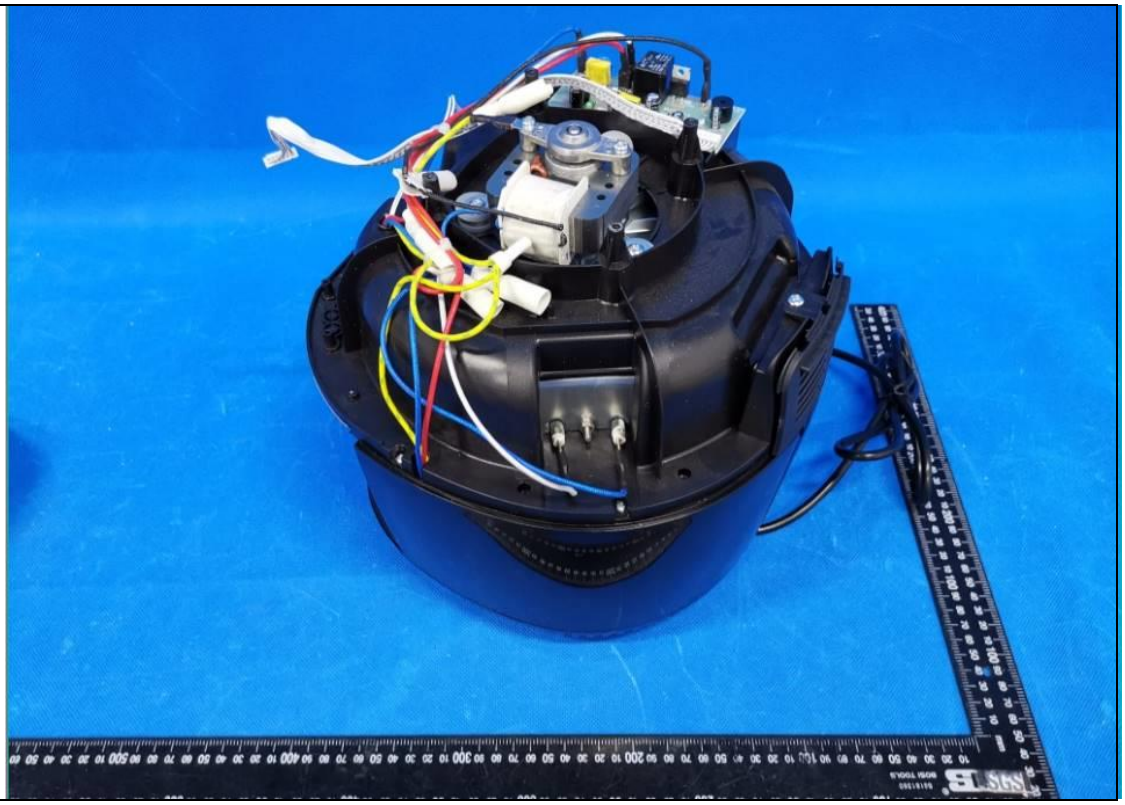

Detail of: **Control PCB for GLA-618**

View:

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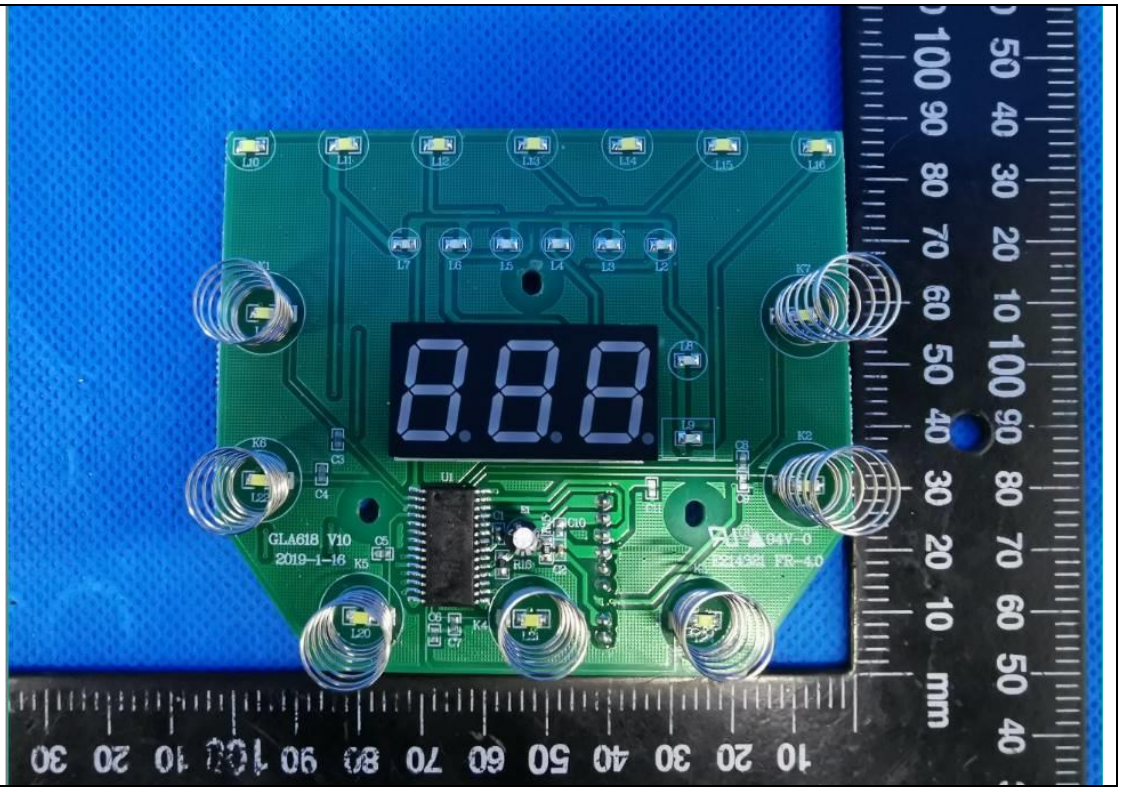

Detail of: **Control PCB for GLA-618**

View:

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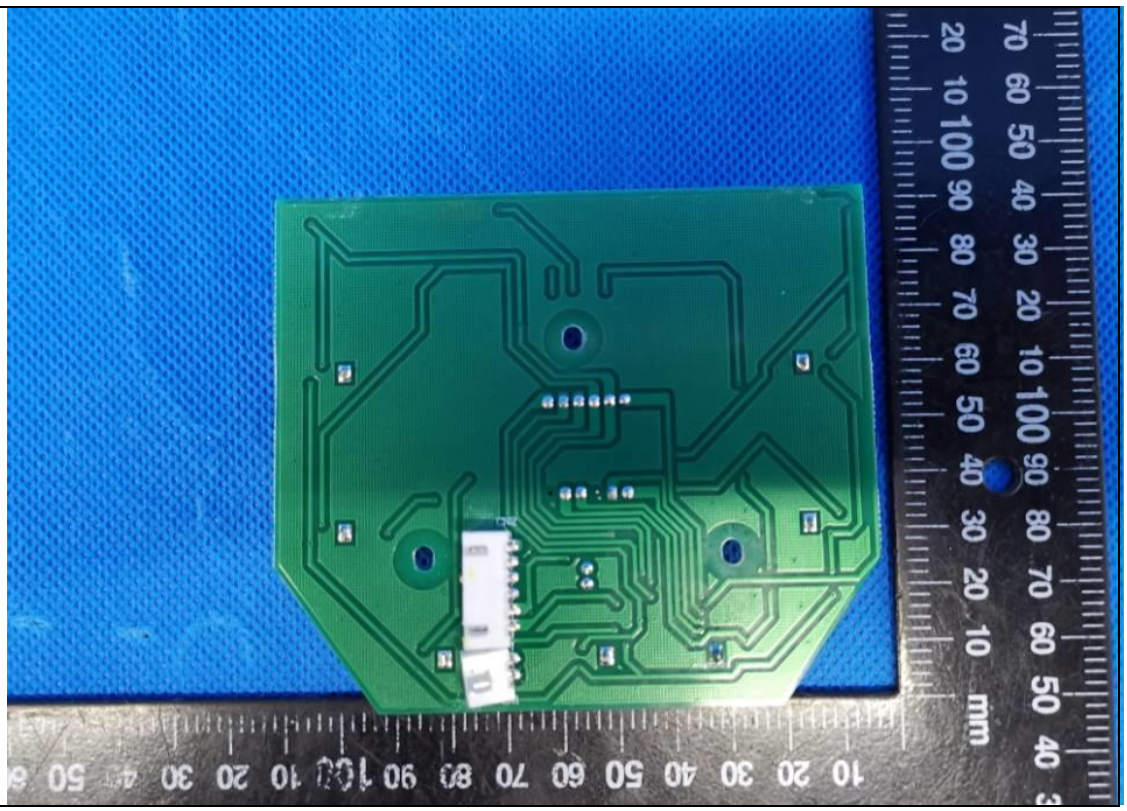

Detail of: **GLA-618 open view**

View:

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[ ] right

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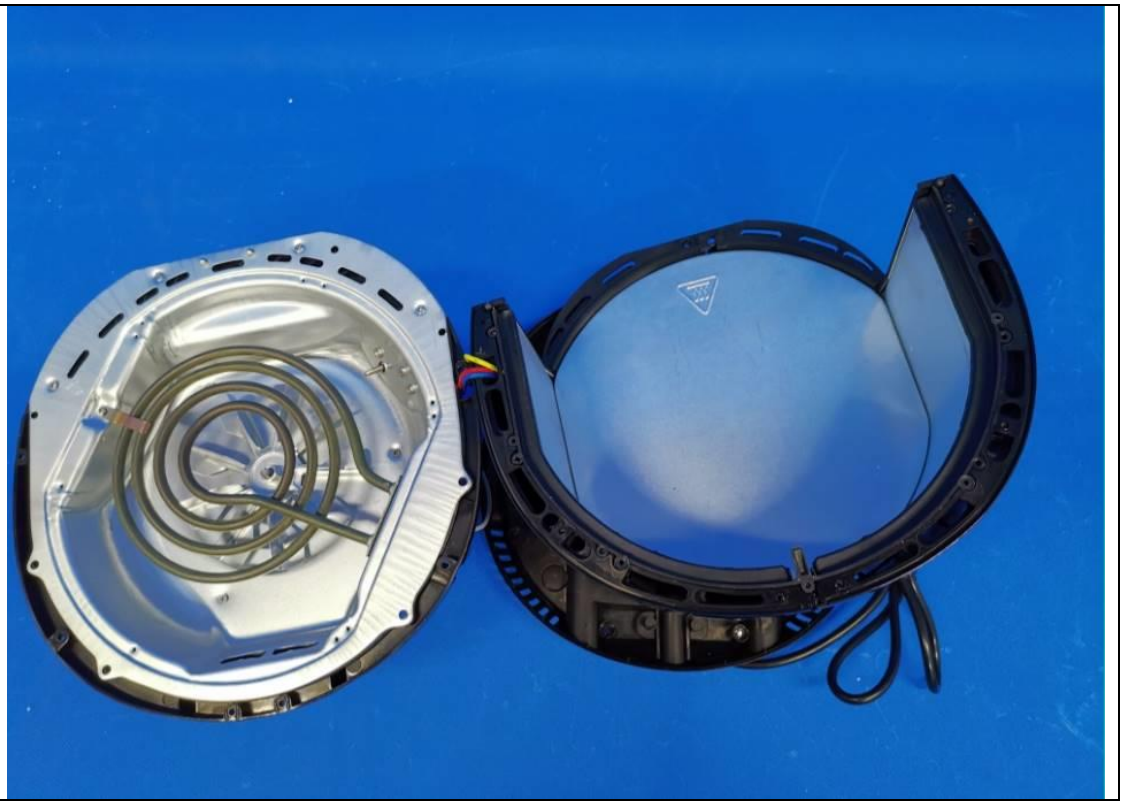
[ ] top

[ ] bottom



Detail of: **Thermal link for GLA-617, GLA-618**

View:

[ ] general

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[ ] bottom

Annex II Photo documentation
Roaster (Air Fryer)
GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **Alternative motor for all the models**

View:

[ ] general

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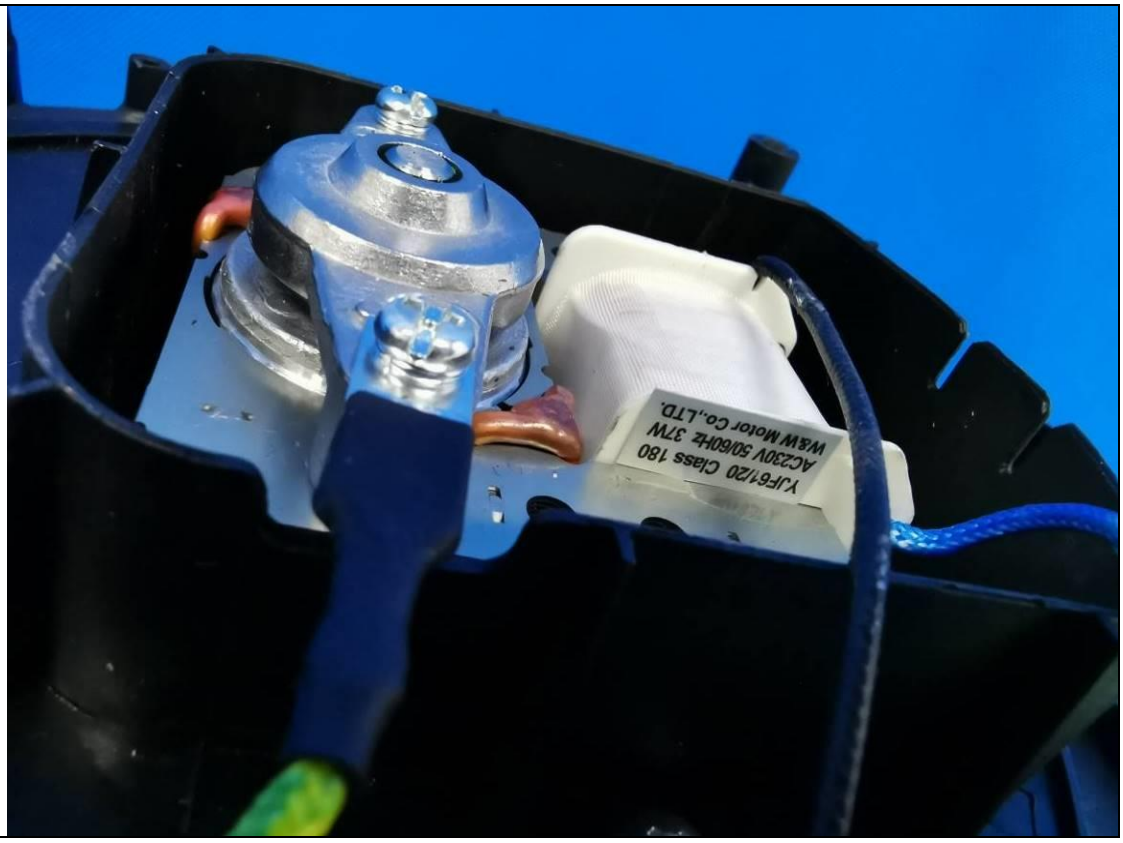

Detail of: **Fry basket 1 for GLA-305 GLA-306 GLA-307 GLA-308 GLA-308A GLA-309 GLA-310 GLA-331 GLA-332**

View:

[ ] general

[ ] front

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Construction without metal cover

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **Fry basket 2 for GLA-305 GLA-306 GLA-307 GLA-308 GLA-308A GLA-309 GLA-310 GLA-331 GLA-332**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom

Construction without metal cover

Detail of: **Fry basket 3 for GLA-305 GLA-306 GLA-307 GLA-308 GLA-308A GLA-309 GLA-310 GLA-331 GLA-332**

View:

[ ] general

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Construction without metal cover

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **Fry basket 1 for GLA-501 GLA-502 GLA-502A GLA-505 GLA-506 GLA-531 GLA-532**

View:

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[ ] left

[ ] top

[ ] bottom

Construction without metal cover

Detail of: **Fry basket 2 for GLA-501 GLA-502 GLA-502A GLA-505 GLA-506 GLA-531 GLA-532**

View:

[ ] general

[ ] front

[ ] rear

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Construction without metal cover

Detail of: **GLA-309, GLA-505**

View:

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[ ] top

[ ] bottom

Detail of: **GLA-309, GLA-505**

View:

[ ] general

[ ] front

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[X] right

[ ] left

[ ] top

[ ] bottom

Detail of: **GLA-309, GLA-505**

View:

[ ] general

[ ] front

[X] rear

[ ] right

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[ ] top

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Detail of: **GLA-309, GLA-505**

View:

[ ] general

[ ] front

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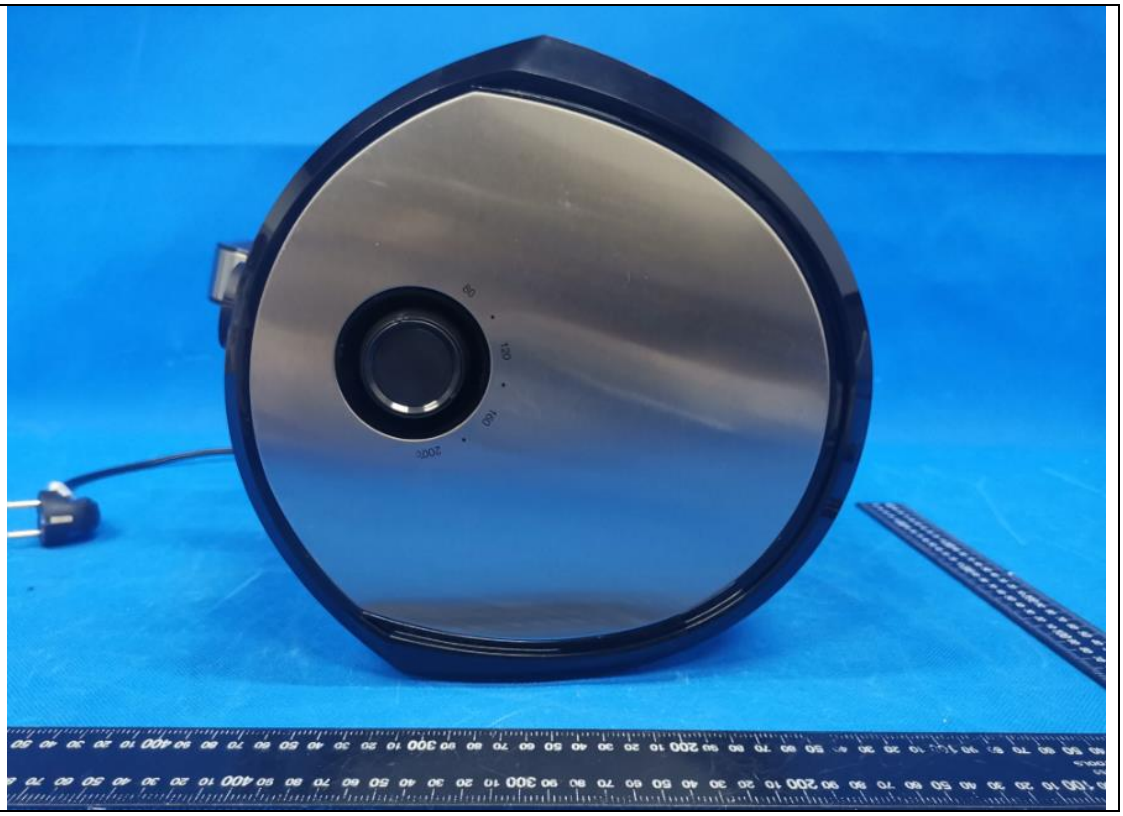

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: **GLA-309, GLA-505**

View:

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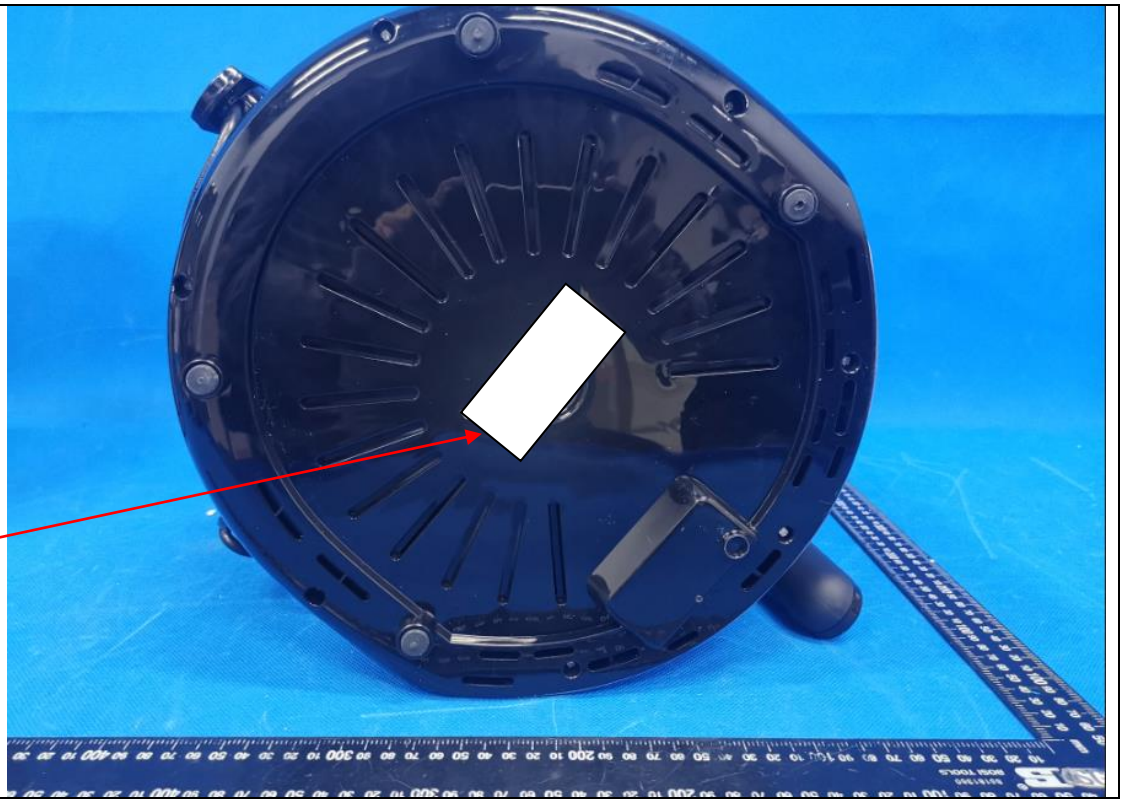
Label position



Detail of: **GLA-309, GLA-505**

View:

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[ ] bottom

Detail of: **Open view for GLA-309 and GLA-505**

View:

[ ] general

[ ] front

[ ] rear

[ ] right

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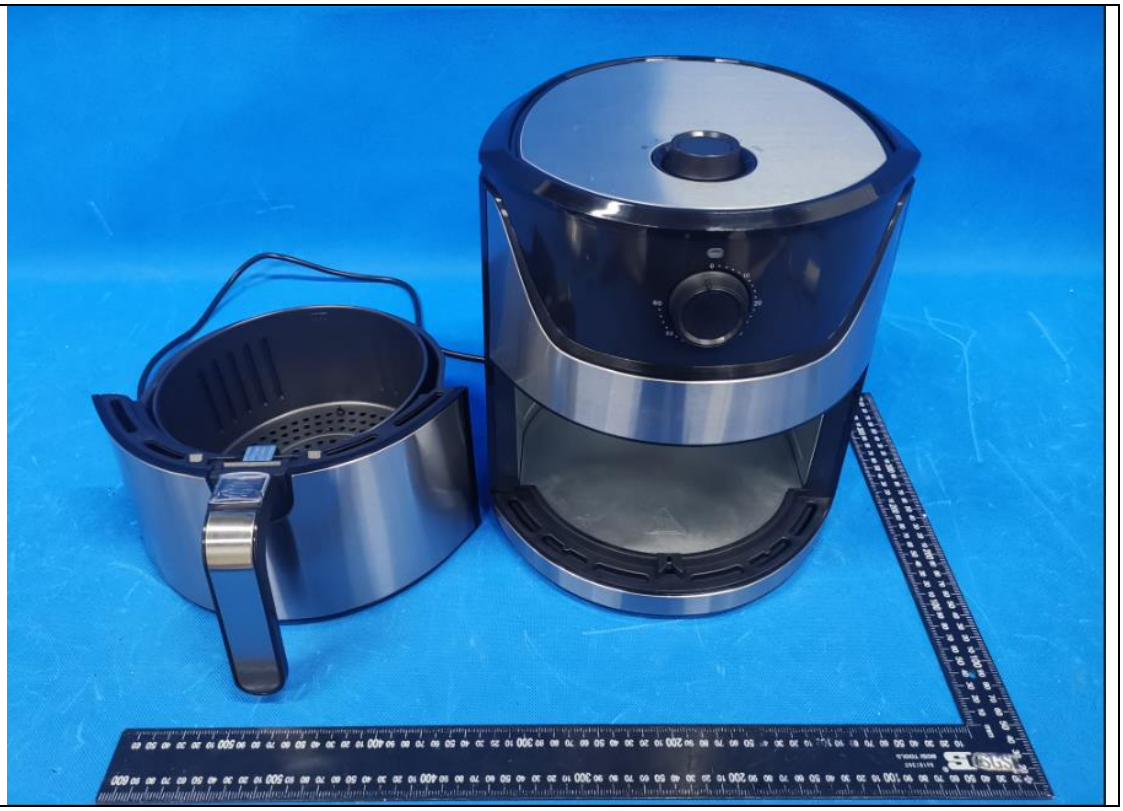
[ ] bottom



Detail of: **Open view for GLA-309 and GLA-505**

View:

[ ] general

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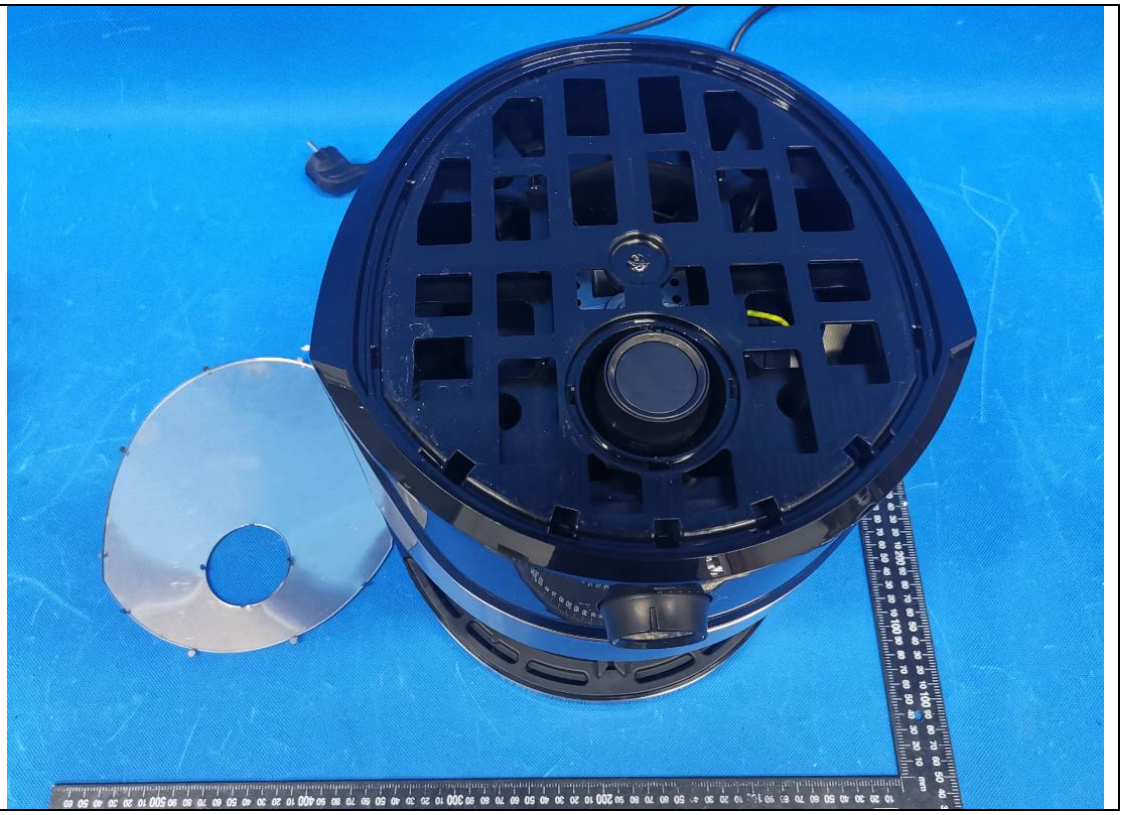

Detail of: **Open view for GLA-309, GLA-505**

View:

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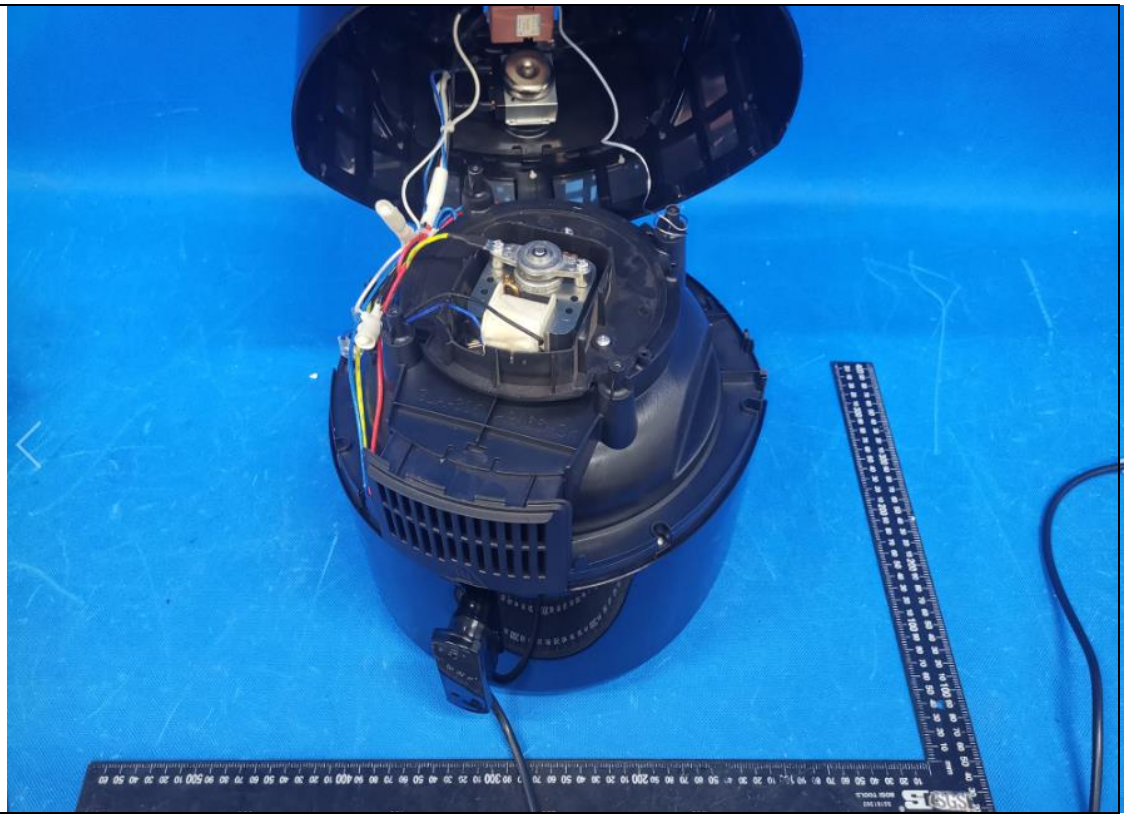

Detail of: **GLA-310(Left), GLA-506(right)**

View:

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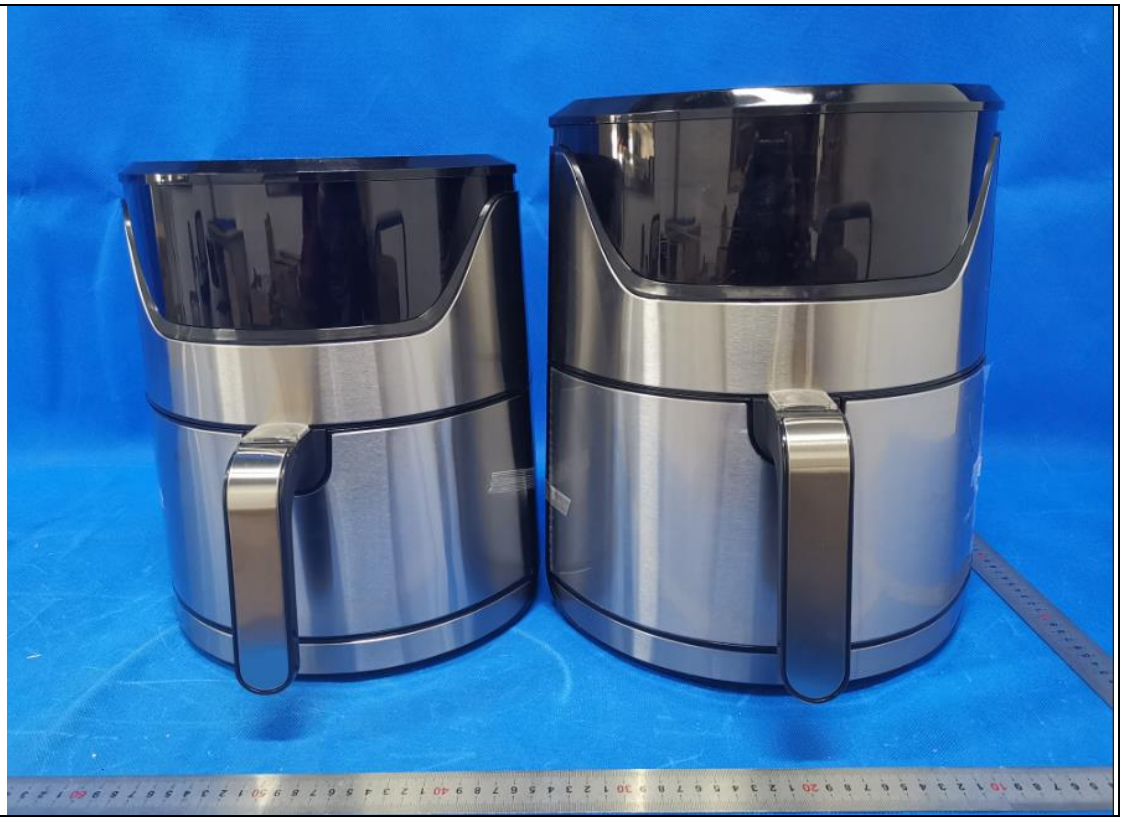

Detail of: **GLA-310, GLA-506**

View:

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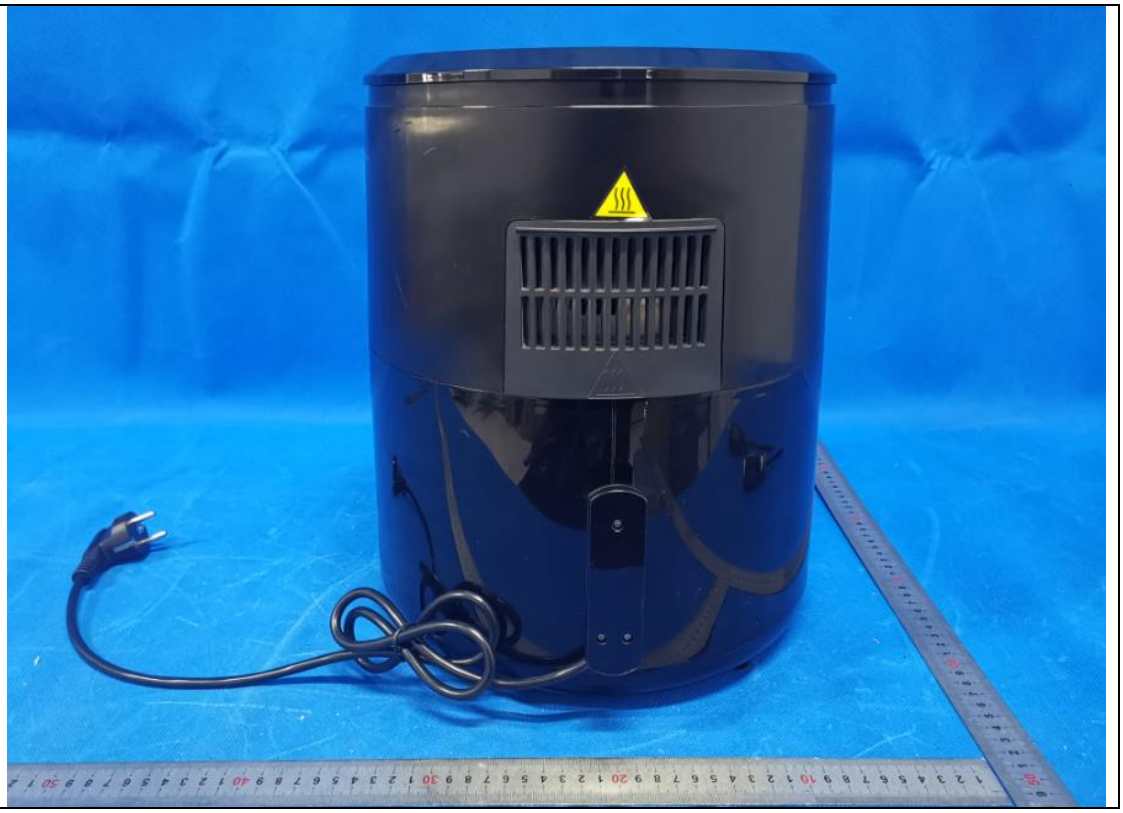

Detail of: **GLA-310, GLA-506**

View:

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Detail of: **GLA-310, GLA-506**

View:

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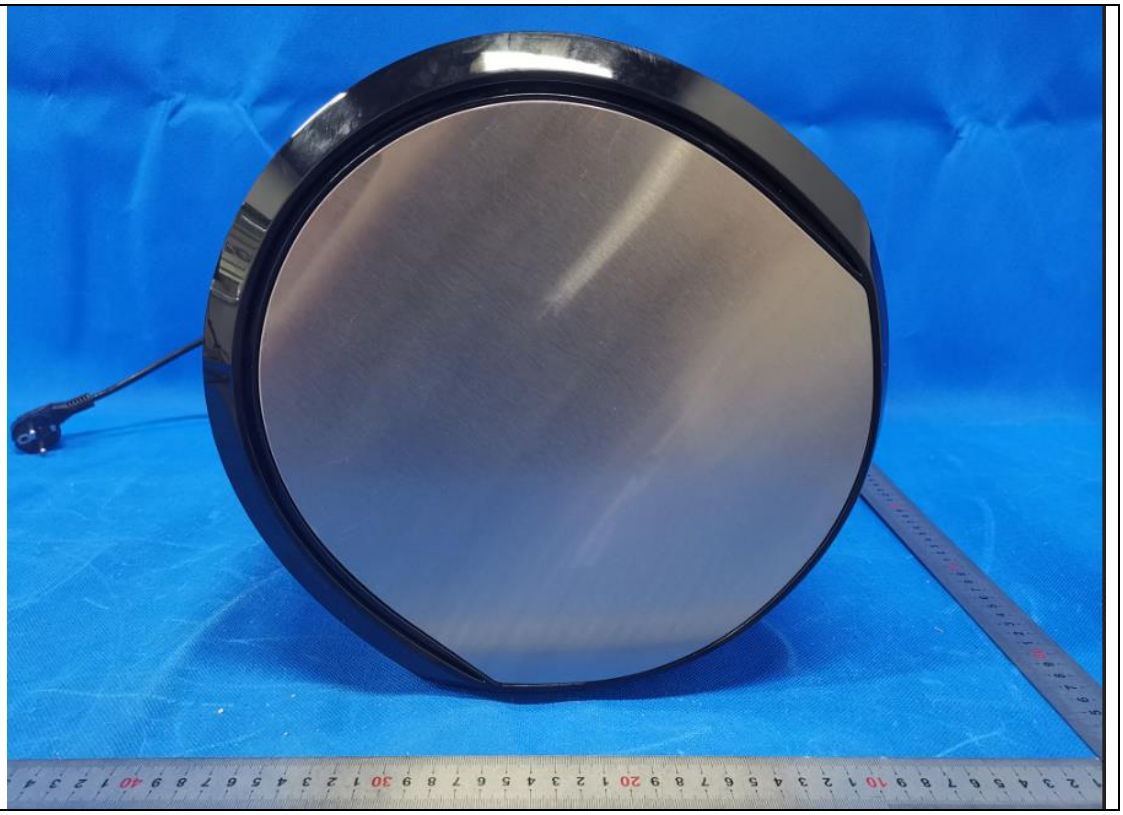

Detail of: **GLA-310, GLA-506 open view**

View:

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Detail of: **GLA-310, GLA-506 open view**

View:

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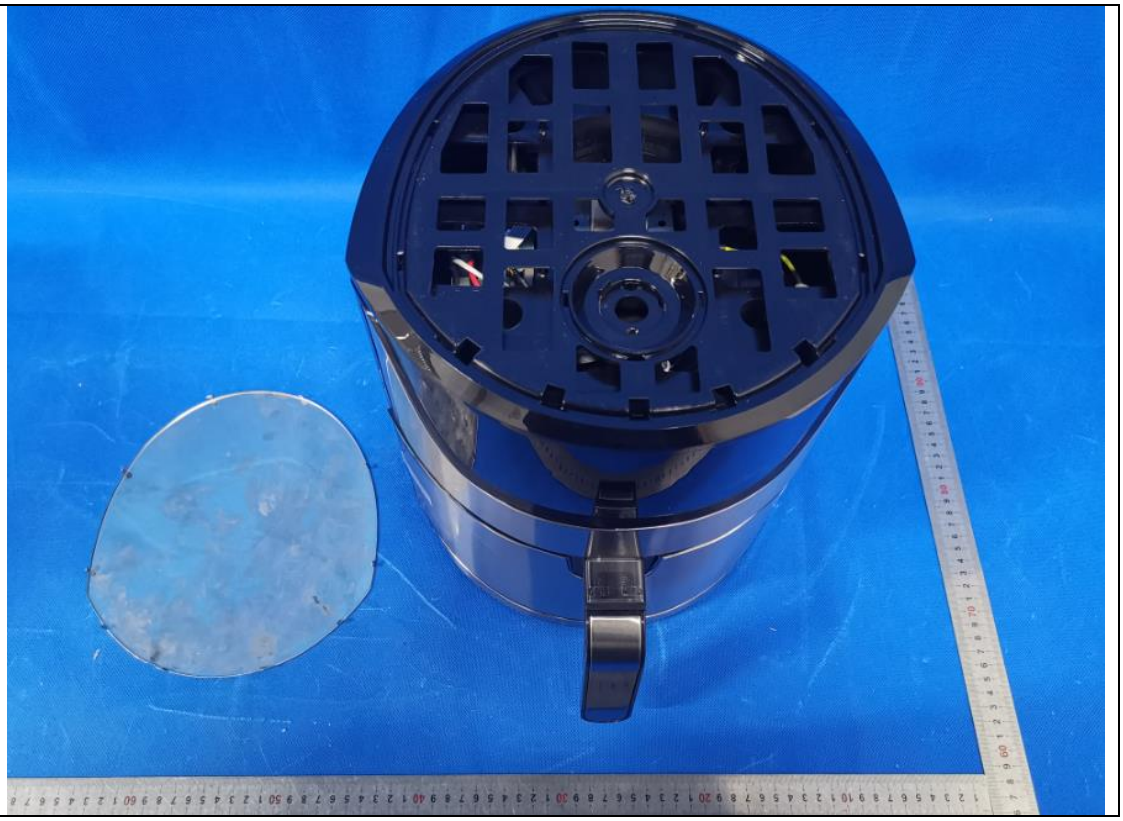

Detail of: **GLA-310, GLA-506 open view**

View:

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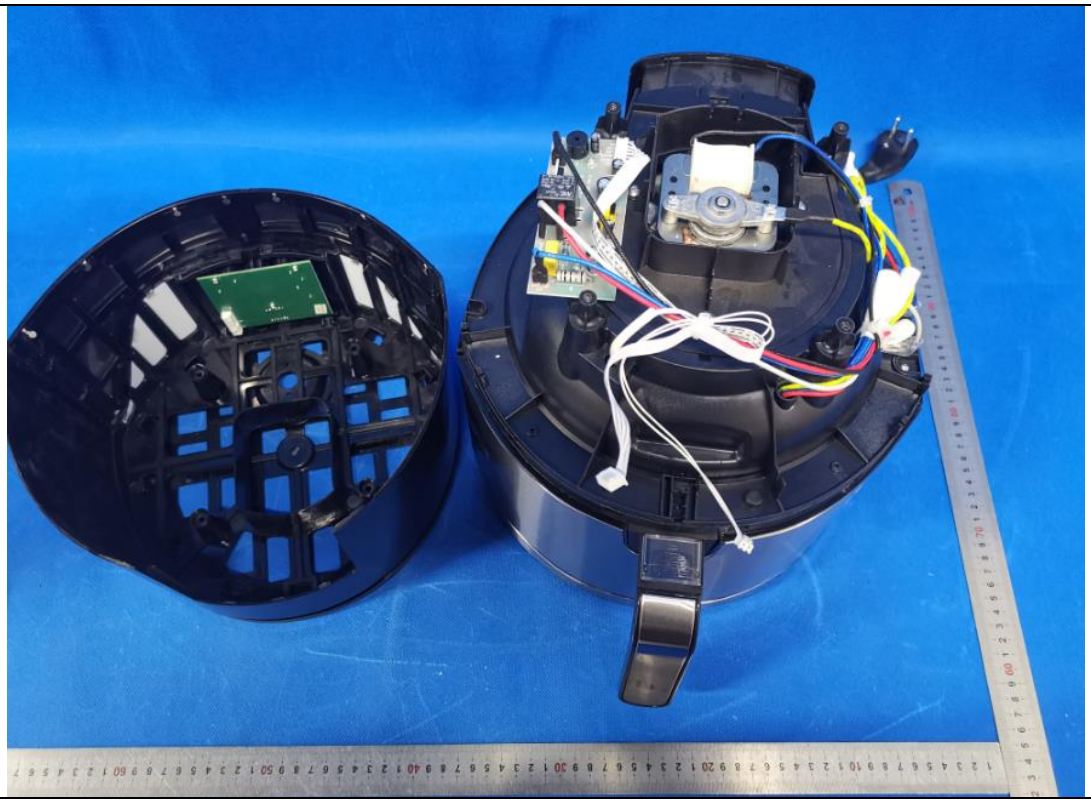

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-332 (left), GLA532 (right)

View:

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Detail of: GLA-331, GLA-531, GLA-332, GLA-532

View:

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Detail of: GLA-331, GLA-531, GLA-332, GLA-532

View:

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Detail of: GLA-331, GLA-531, GLA-332, GLA-532

View:

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Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: GLA-331, GLA-531, GLA-332, GLA-532

View:

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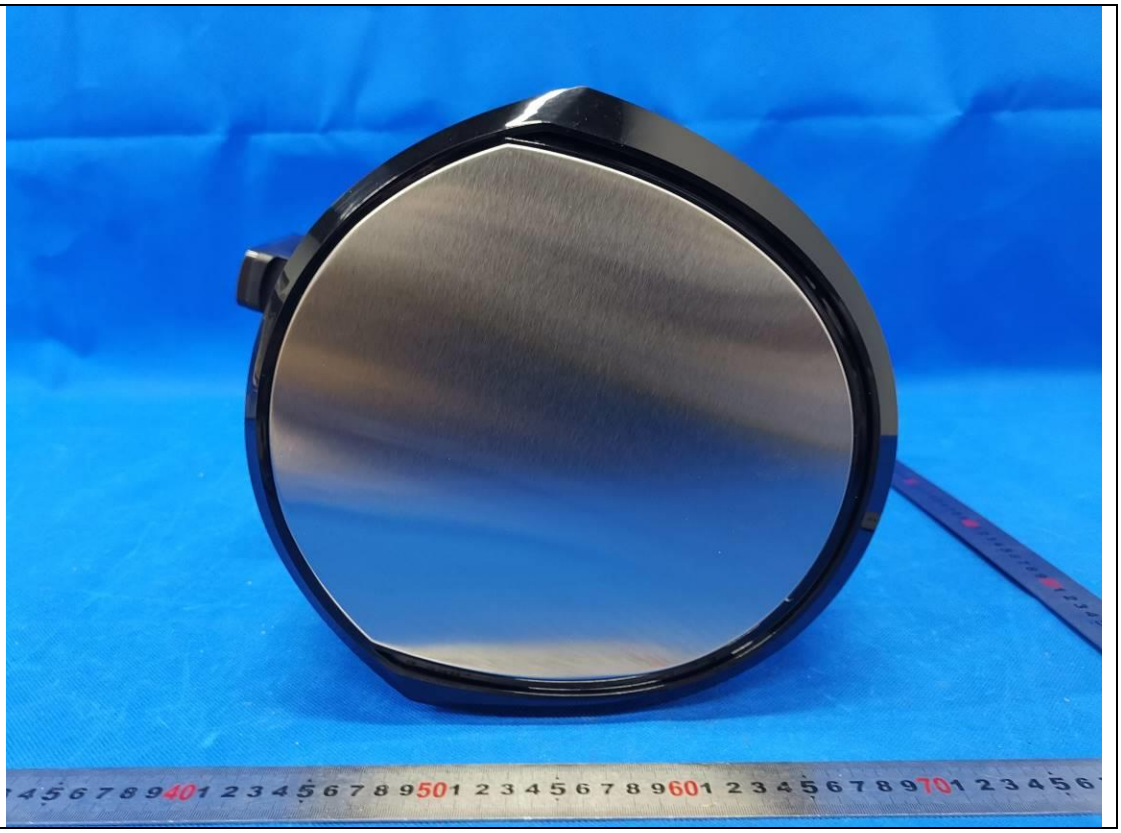

Detail of: GLA-331, GLA-531, GLA-332, GLA-532

View:

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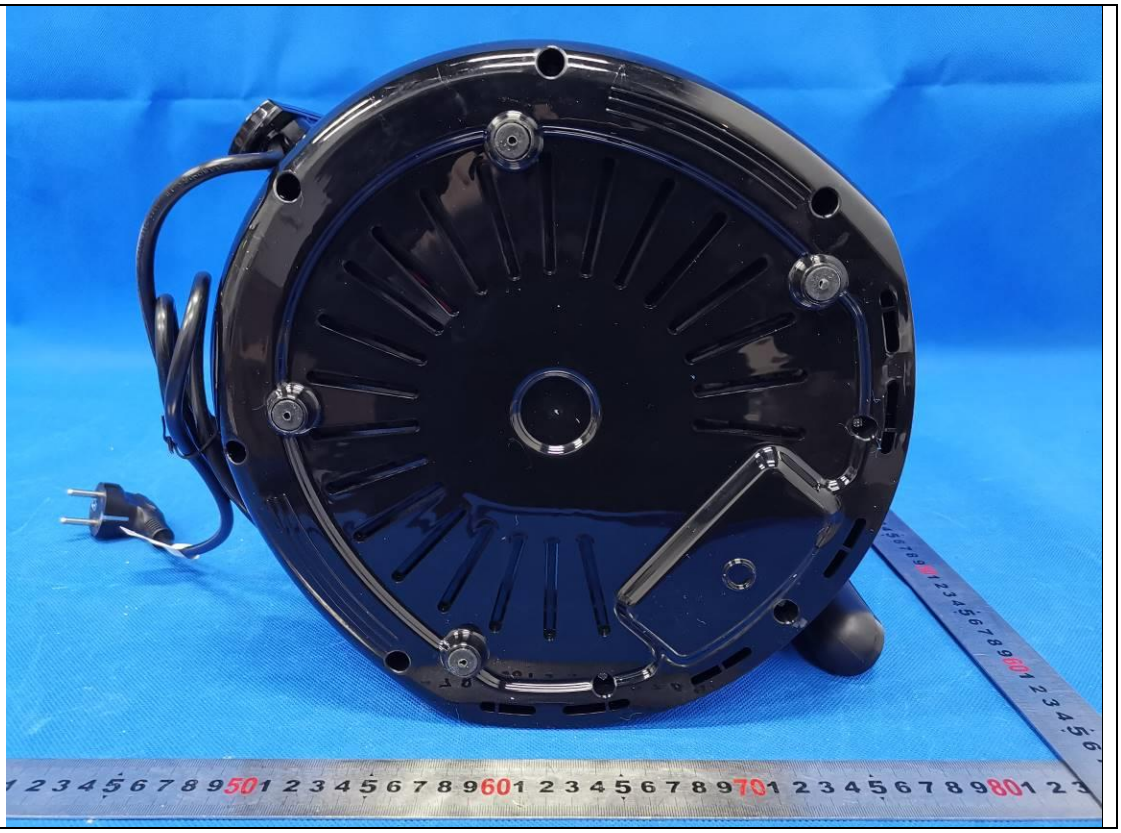

Detail of: GLA-332, GLA-532

View:

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Detail of: GLA-332, GLA-532

View:

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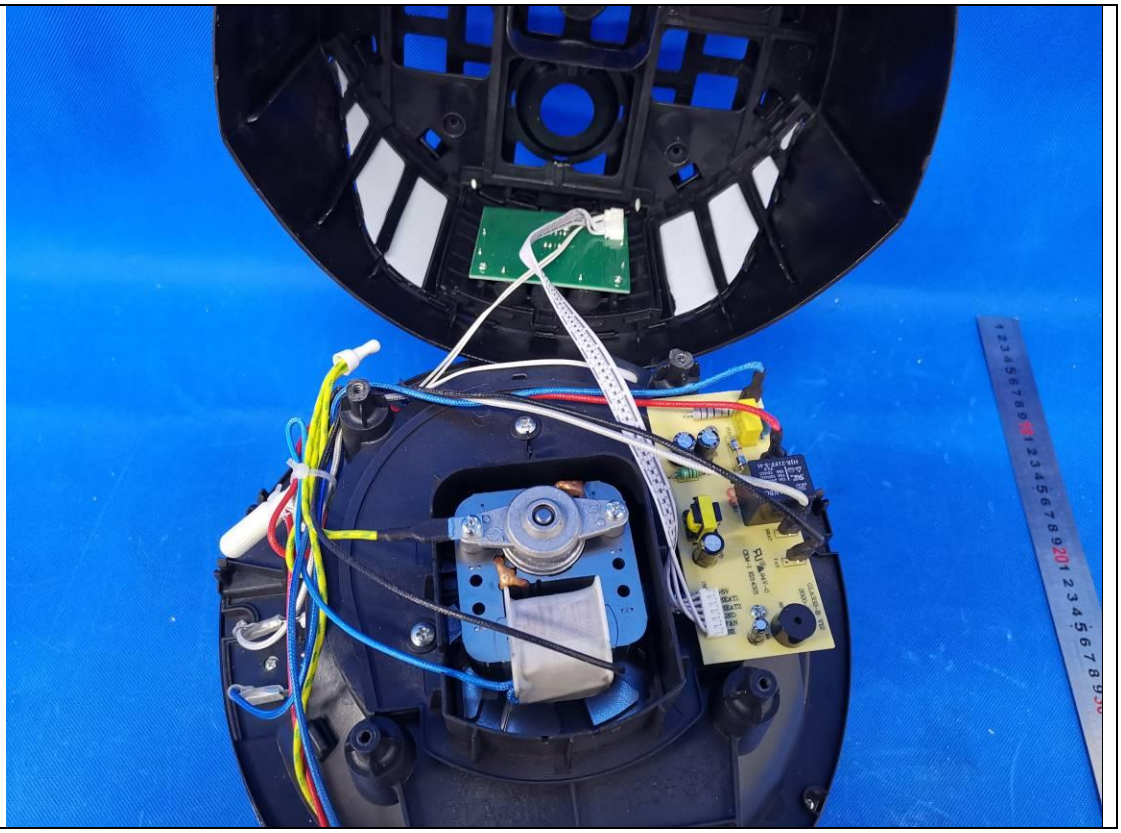

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: Control PCB for GLA-332, GLA-532

View:

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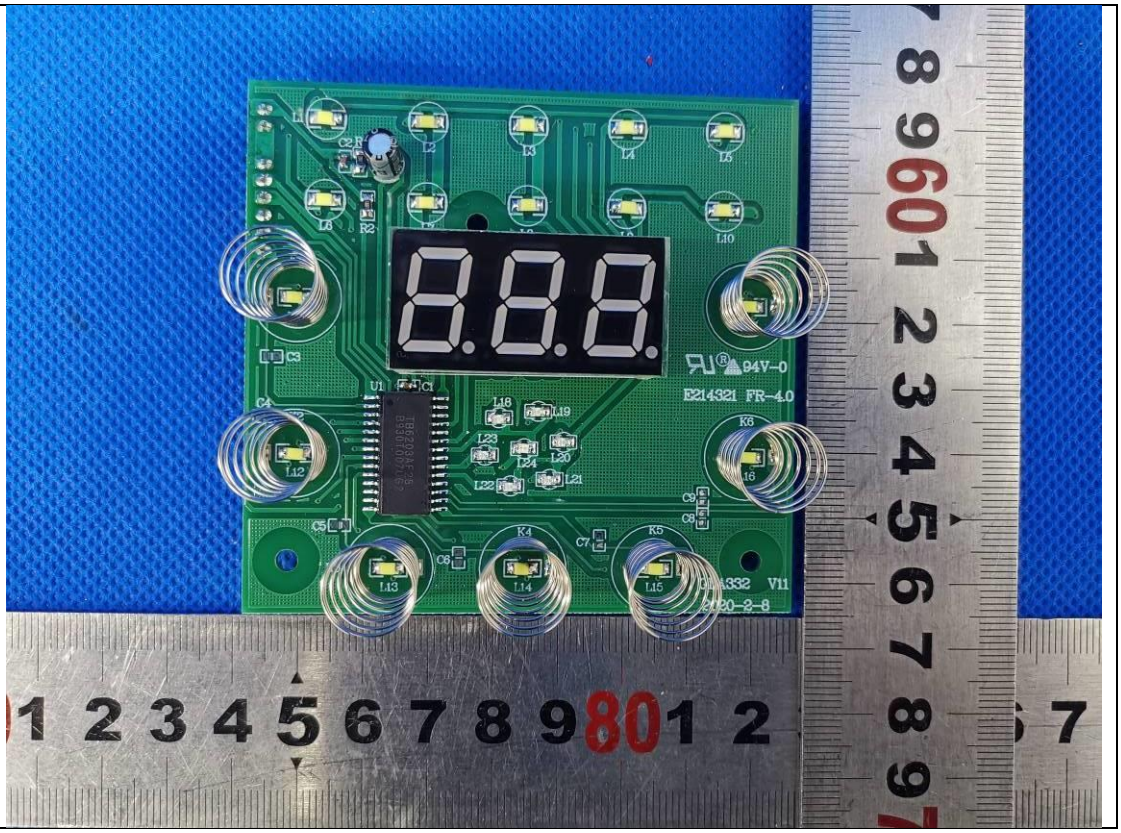

Detail of: Control PCB for GLA-332, GLA-532

View:

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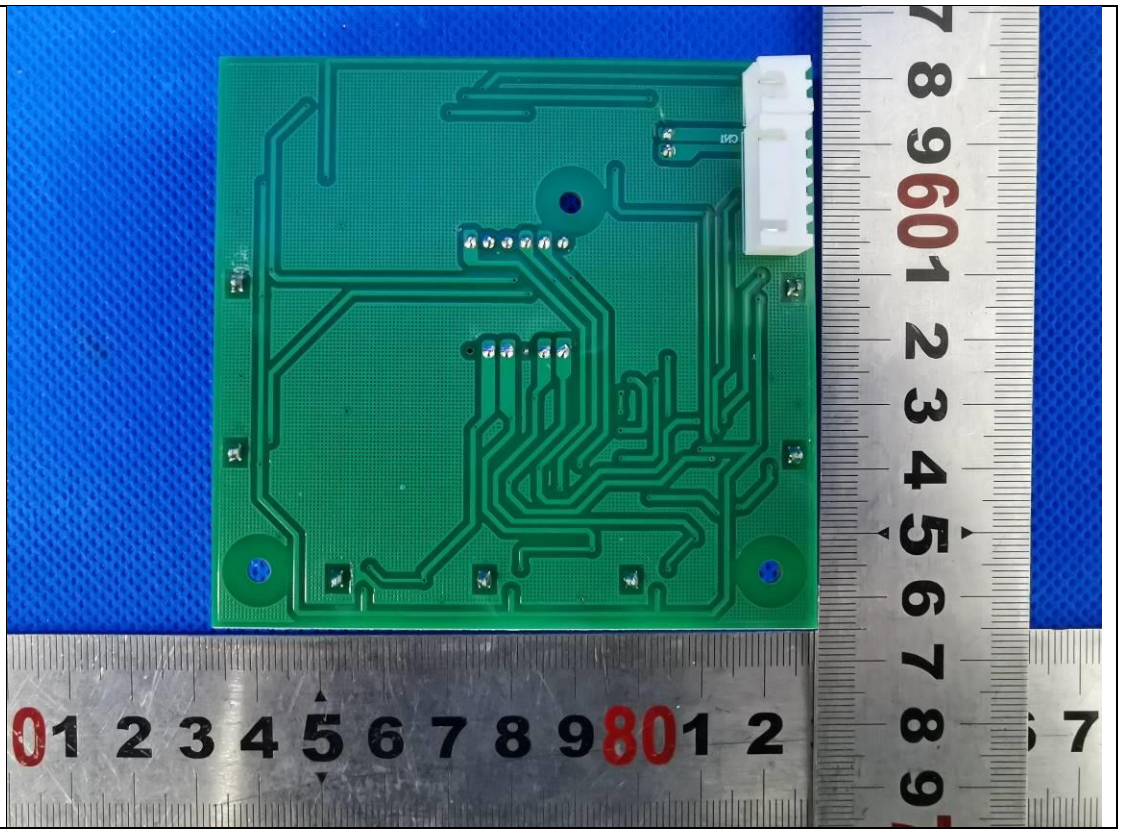

Annex II Photo documentation
Roaster (Air Fryer)

GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Detail of: Alternative PCB for all the electronic models

View:

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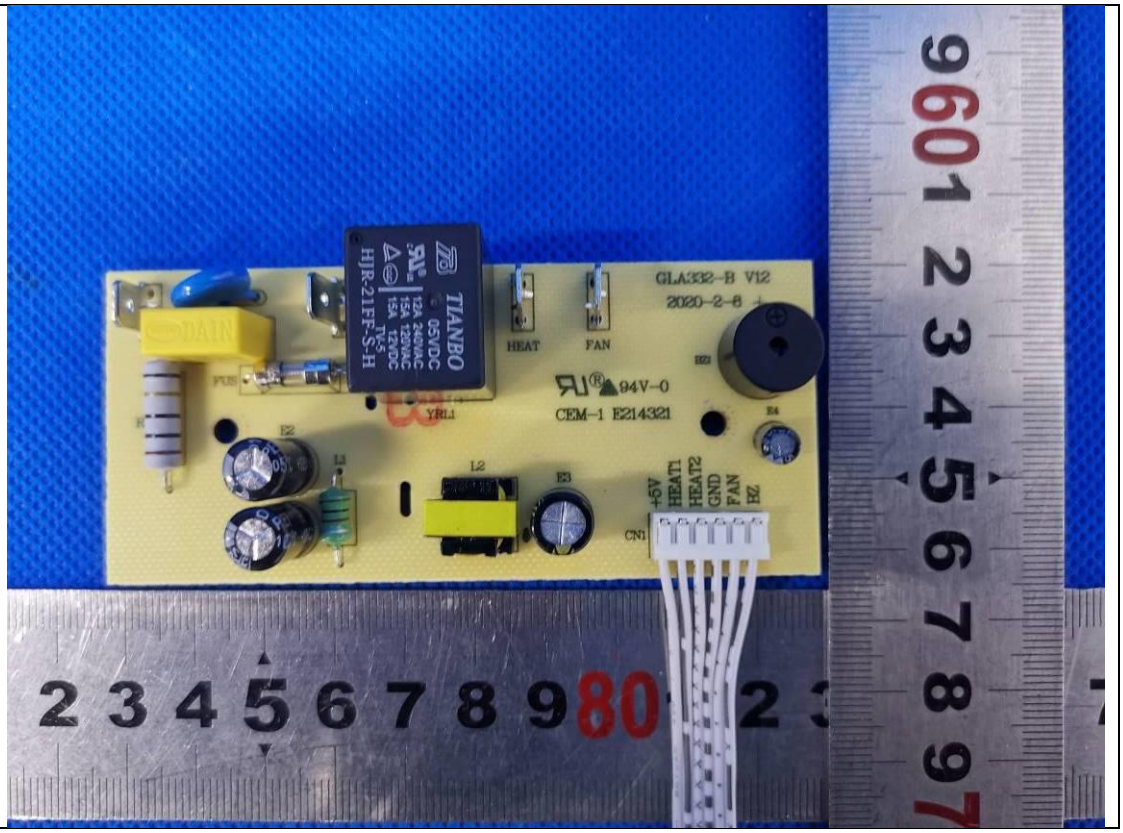

Detail of: Alternative PCB for all the electronic models

View:

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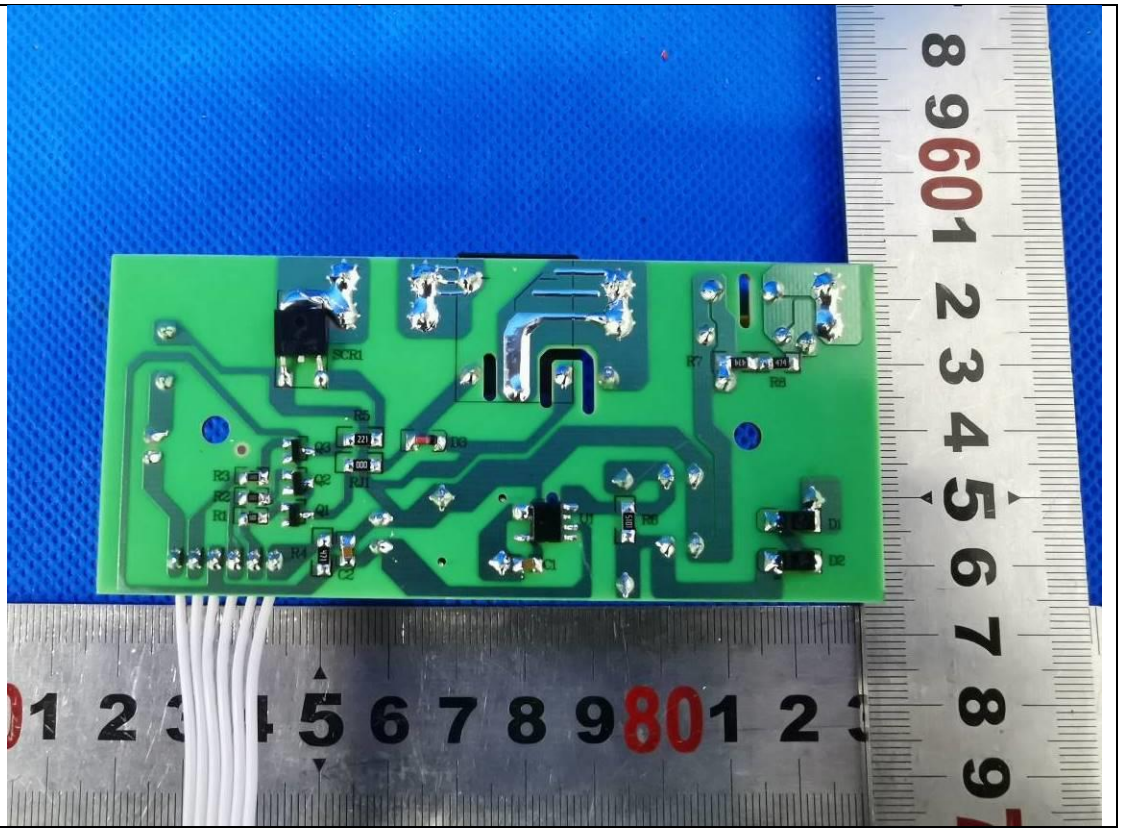

Detail of: GLA-331 GLA-531

View:

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Detail of: GLA-331 GLA-531

View:

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Detail of: Marking for GLA-331, GLA-531

View:

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Detail of: GLA-331, GLA-531 open view

View:

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Detail of: GLA-331, GLA-531 open view

View:

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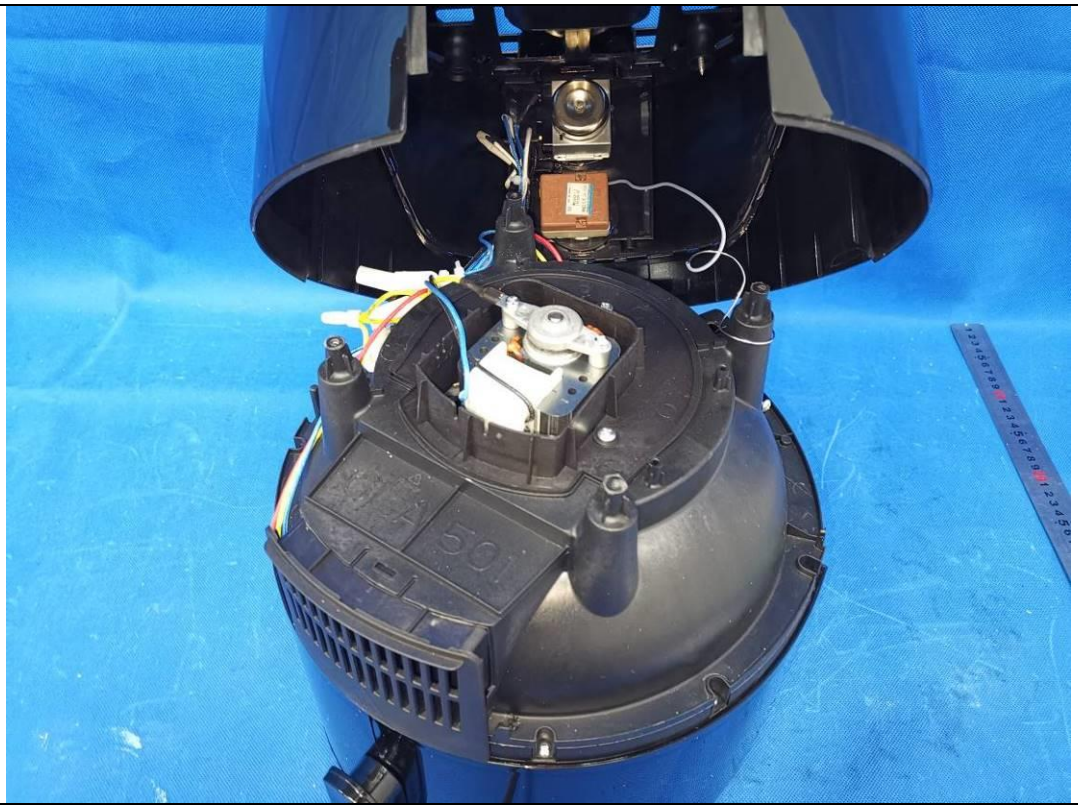


- End of Annex II -

Annex III

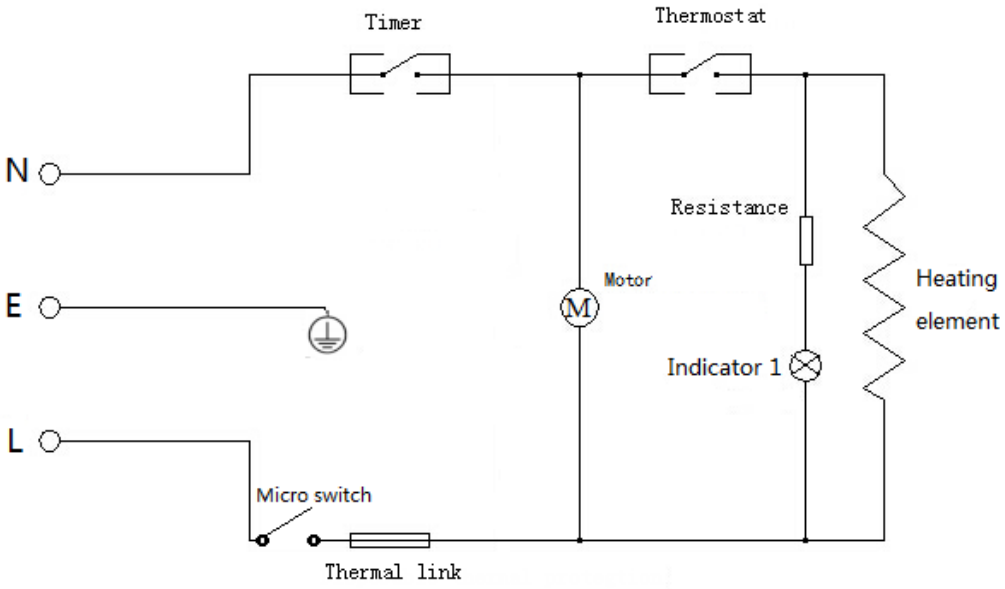
Circuit diagram

Product name: Roaster (Air Fryer)

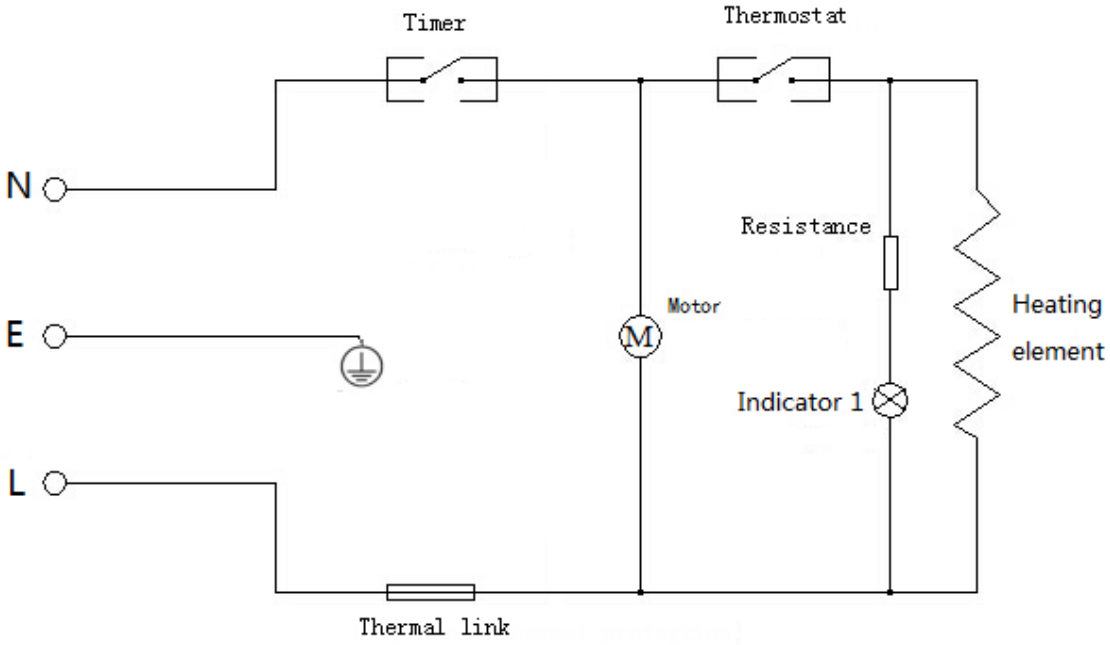
Model: GLA-305, GLA-306, GLA-307, GLA-308, GLA-308A, GLA-309, GLA-310, GLA-331, GLA-332, GLA-501, GLA-502, GLA-502A, GLA-505, GLA-506, GLA-531, GLA-532, GLA-617, GLA-618, GLA-901, GLA-902, GLA-905, GLA-906

Circuit diagram:

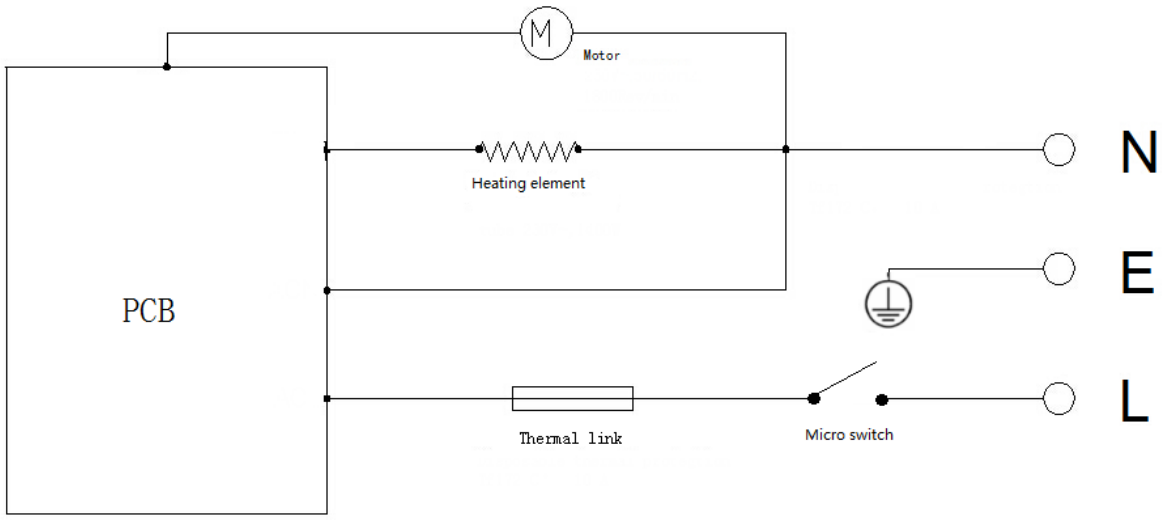
GLA-305, GLA-307, GLA-309, GLA-331, GLA-531, GLA-501, GLA-505, GLA-617, GLA-901, GLA-905 (with micro switch):



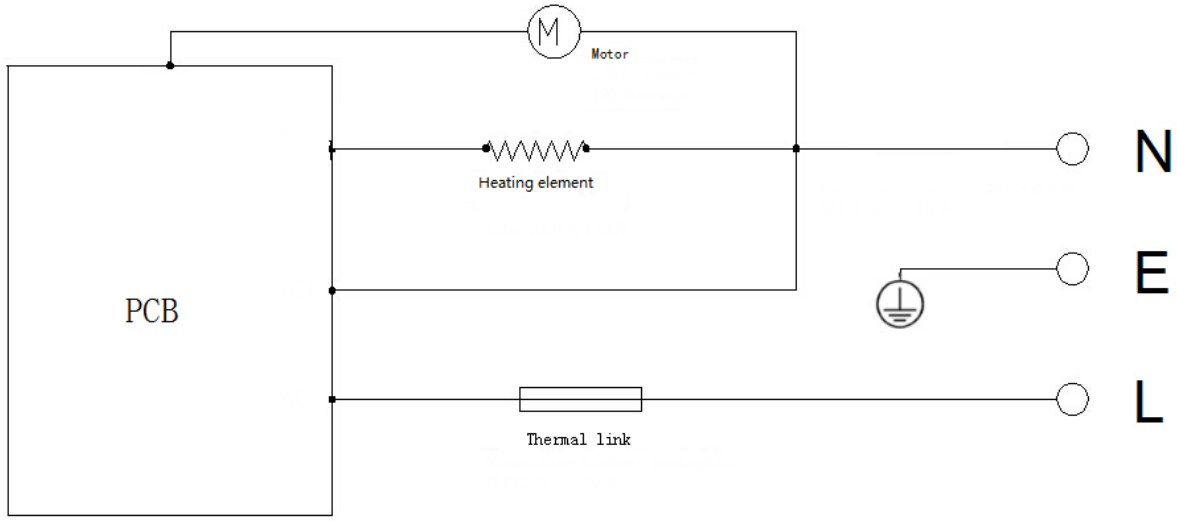
GLA-305, GLA-307, GLA-309, GLA-331, GLA-531, GLA-501, GLA-505, GLA-617, GLA-901, GLA-905 (without micro switch):



GLA-306, GLA-308, GLA-310, GLA-332, GLA-532, GLA-502, GLA-506, GLA-308A, GLA-618, GLA-502A, GLA-902, GLA-906 (with micro switch):



GLA-306, GLA-308, GLA-310, GLA-332, GLA-532, GLA-502, GLA-506, GLA-308A, GLA-618, GLA-502A, GLA-902, GLA-906 (without micro switch):



<End of Annex III>

Annex IV: Evaluation of EK1 decision – EK1AG2 Rev.10.2018: General requirements for the evaluation of products in the scope of EN 60335-2-9

Product: Roaster (Air Fryer)

1. Handles and operating controls shall be evaluated according to EN 60335-2-9:2003/A12:2007 clause 11.8:			
11.8	The temperature rise of handles or grips and that of operational devices such as switches, keypads and knobs that are intended to be touched in normal use is measured as follows:(EN 60335-2-9)		P
	-for operational devices and grips with a surface greater than 300 mm², over an area of 20 mm around the part normally gripped or touched to operate the appliance		P
	-for operational devices and grips with a surface less than or equal to 300 mm², over an area of 25 mm around the part normally gripped or touched to operate the appliance		P
	The hot part of operational devices and grips cannot be touched unintentionally		P
	-for handles, over an area of 20mm around the orthogonal projection of all points located at the clearance less than 40mm between the rear part of the handle, or at least 80mm along the handle and the hot part.		P
	The hot part of handles cannot be touched unintentionally		P
	-for surfaces of handles, knobs, grips and similar parts which are held for short periods, table 3 applies.	(see appended table)	P
2. Temperature rise for external surfaces shall be evaluated according to EK1AG2 Rev10.2018			
	Ventilation openings for exhausting the muffle are also accepted at other areas than the front side if a technical rational is behind. For the surface round the exhaust air outlet the 25 mm rule can be used		P
	Hot air circulation roaster are tested with a cup filled with 0,1 Liter of water. The appliance is operated on highest setting of the temperature. It is operated for a period of 60 min or for the maximum period allowed by a timer, whichever is the longer.	60 min	P
	Hot air circulation roaster is placed with their backs as near as possible to one of the walls of the test corner and away from the other wall.		P
	Hot air circulation roaster are placed as specified in 11.2 and operated under normal operation. Hot air circulation roaster is supplied at rated power input.		P
	Temperature rises for external surfaces shall not exceed the values specified		P

11.8	TABLE: Temperature rise limits for surfaces (GLA-901)		P
	Ambient T1 (°C): 23,6; Ambient T2 (°C): 23,2		—
	Test voltage (V): 259,1		—
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9		—
		dT (K)	Max. dT (K)
Thermostat / timer knob and their surrounding		20,1	60
Handle of container and its projection		41,3	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-902)		P
	Ambient T1 (°C): 24,3; Ambient T2 (°C): 24,3		—
	Test voltage (V): 258,5		—
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9		—
		dT (K)	Max. dT (K)
Control panel and its surrounding		14,4	60
Handle of container and its projection		32,1	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-905)		P
	Ambient T1 (°C): 21,6; Ambient T2 (°C): 21,8		—
	Test voltage (V): 261,4		—
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9		—
		dT (K)	Max. dT (K)
Thermostat knob and their surrounding		13,4	60
Timer knob and their surrounding		12,6	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-906)		P
	Ambient T1 (°C): 21,8; Ambient T2 (°C): 21,5		—
	Test voltage (V): 256,1		—
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9		—
		dT (K)	Max. dT (K)
Control panel and its surrounding		34,6	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-501)		P
	Ambient T1 (°C): 24,2; Ambient T2 (°C): 24,8		—
	Test voltage (V): 256,9		—
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9		—
Thermocouple locations		dT (K)	Max. dT (K)
Thermostat knob, timer knob and their surrounding		16,7	60

Handle of container and its surrounding	1,9	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-502)		P
	Ambient T1 (°C): 23,9; Ambient T2 (°C): 22,6	—	
	Test voltage (V): 256,5	—	
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9	—	
Thermocouple locations		dT (K)	Max. dT (K)
Control panel and its surrounding		21,6	60
Handle of container and its surrounding		7,4	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-617)		P
	Ambient T1 (°C): 24,1; Ambient T2 (°C): 23,6	—	
	Test voltage (V): 264,7	—	
	Test input power (W): 1,15 x (240/230)^2 x 1400 = 1753,0 W	—	
Thermocouple locations		dT (K)	Max. dT (K)
Thermostat knob, timer knob and their surrounding		6,8	60
Handle of container and its surrounding		20,6	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-618)		P
	Ambient T1 (°C): 24,4; Ambient T2 (°C): 24,3	—	
	Test voltage (V): 265,1	—	
	Test input power (W): 1,15 x (240/230)^2 x 1400 = 1753,0 W	—	
Thermocouple locations		dT (K)	Max. dT (K)
Control panel and its surrounding		13,3	60
Handle of container and its surrounding		10,2	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-305)		P
	Ambient T1 (°C): 24,2; Ambient T2 (°C): 24,8	—	
	Test voltage (V): 265,9	—	
	Test input power (W): 1,15 x (240/230)^2 x 1400 = 1753,0 W	—	
Thermocouple locations		dT (K)	Max. dT (K)
Thermostat knob, timer knob and their surrounding		6,5	35

11.8	TABLE: Temperature rise limits for surfaces (GLA-306)		P
	Ambient T1 (°C): 24,5; Ambient T2 (°C): 24,6	—	
	Test voltage (V): 262,8	—	
	Test input power (W): 1,15 x (240/230)^2 x 1400 = 1753,0 W	—	

Thermocouple locations	dT (K)	Max. dT (K)
Control panel and its surrounding	11,5	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-502A)		P
	Ambient T1 (°C): 24,1; Ambient T2 (°C): 24,5	—	
	Test voltage (V): 257,3	—	
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Control panel and its surrounding	16,8	60	

11.8	TABLE: Temperature rise limits for surfaces (GLA-505)		P
	Ambient T1 (°C): 21,7; Ambient T2 (°C): 22,1	—	
	Test voltage (V): 260,0	—	
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Thermostat knob surrounding	28,6	35	
Timer knob surrounding	16,9	60	
Handle of container and its surrounding	36,3	60	

11.8	TABLE: Temperature rise limits for surfaces (GLA-506)		P
	Ambient T1 (°C): 21,4; Ambient T2 (°C): 21,0	—	
	Test voltage (V): 254,3	—	
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Control panel and its surrounding	24,4	60	
Handle of container and its surrounding	36,2	60	

11.8	TABLE: Temperature rise limits for surfaces (GLA-309)		P
	Ambient T1 (°C): 20,4; Ambient T2 (°C): 19,9	—	
	Test voltage (V): 261,6	—	
	Test input power (W): 1,15 x (240/230)^2 x 1400 = 1753,0 W	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Thermostat knob surrounding	23,1	35	
Timer knob surrounding	13,4	60	
Handle of container and its surrounding	52,5	60	

11.8	TABLE: Temperature rise limits for surfaces (GLA-531)		P
	Ambient T1 (°C): 23,0; Ambient T2 (°C): 23,0	—	

	Test voltage (V): 261,6	—
	Test input power (W): 1,15x(240/230)^{2}x1800=2253,9	—
Thermocouple locations	dT (K)	Max. dT (K)
Knobs surrounding	38,8	60

11.8	TABLE: Temperature rise limits for surfaces (GLA-310)	P
	Ambient T1 (°C): 19,6; Ambient T2 (°C):19,4	—
	Test voltage (V): 262,5	—
	Test input power (W): 1,15 x (240/230)^2 x 1400 = 1753,0 W	—
Thermocouple locations	dT (K)	Max. dT (K)
Control panel and its surrounding	22,3	60
Handle of container and its surrounding	27,0	60

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-901)	P
	Ambient T1 (°C): 23,9; Ambient T2 (°C): 23,8	—
	Test voltage (V): 242,7	—
	Test input power (W): (240/230)^{2}x1800=1959,9	—
	dT (K)	Max. dT (K)
Plastic enclosure	36,5	65
Metal enclosure	24,3	45
Test wall	36,3	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-902)	P
	Ambient T1 (°C): 22,1; Ambient T2 (°C): 22,1	—
	Test voltage (V): 243,3	—
	Test input power (W): (240/230)^{2}x1800=1959,9	—
	dT (K)	Max. dT (K)
Plastic enclosure	50,3	65
Metal enclosure	30,9	45
Test wall	36,7	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-905)	P
	Ambient T1 (°C): 22,0; Ambient T2 (°C): 21,8	—
	Test voltage (V): 241,7	—
	Test input power (W): (240/230)^{2}x1800=1959,9	—
	dT (K)	Max. dT (K)
Plastic enclosure	52,1	65
Metal enclosure	26,9	45

Test wall	38,9	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-906)	P
	Ambient T1 (°C): 21,8; Ambient T2 (°C): 22,1	—
	Test voltage (V): 239,4	—
	Test input power (W): $(240/230)^2$x1800=1959,9	—

	dT (K)	Max. dT (K)
Plastic enclosure	59,4	65
Metal enclosure	27,4	45
Test wall	40,5	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-501)	P
	Ambient T1 (°C): 24,3; Ambient T2 (°C): 24,8	—
	Test voltage (V): 242,0	—
	Test input power (W): $(240/230)^2$x1800=1959,9	—

Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	24,0	65
Metal enclosure	25,3	45
Test wall	43,1	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-502)	P
	Ambient T1 (°C): 24,6; Ambient T2 (°C): 23,8	—
	Test voltage (V): 242,0	—
	Test input power (W): $(240/230)^2$x1800=1959,9	—

Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	39,3	65
Metal enclosure	37,7	45
Test wall	51,4	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-617)	P
	Ambient T1 (°C): 24,1; Ambient T2 (°C): 24,3	—
	Test voltage (V): 247,3	—
	Test input power (W): $(240/230)^2$x1400=1524,4	—

Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	27,3	65
Metal enclosure	37,6	45
Test wall	87,9	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-618)		P
	Ambient T1 (°C): 24,1; Ambient T2 (°C): 24,5	—	
	Test voltage (V): 249,4	—	
	Test input power (W): $(240/230)^2$x1400=1524,4	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Plastic enclosure	39,0	65	
Metal enclosure	40,5	45	
Test wall	76,0	150	

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-305)		P
	Ambient T1 (°C): 23,8; Ambient T2 (°C): 24,2	—	
	Test voltage (V): 248,7	—	
	Test input power (W): $(240/230)^2$x1400=1524,4	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Plastic enclosure	31,8	65	
Metal enclosure	26,8	45	
Test wall	37,5	150	

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-306)		P
	Ambient T1 (°C): 24,3; Ambient T2 (°C): 24,6	—	
	Test voltage (V): 245,9	—	
	Test input power (W): $(240/230)^2$x1400=1524,4	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Plastic enclosure	43,3	65	
Metal enclosure	19,4	45	
Test wall	37,0	150	

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-505)		P
	Ambient T1 (°C): 22,0; Ambient T2 (°C): 21,9	—	
	Test voltage (V): 242,3	—	
	Test input power (W): $(240/230)^2$x1800=1959,9	—	
Thermocouple locations	dT (K)	Max. dT (K)	
Plastic enclosure	56,0	65	
Metal enclosure	43,4	45	
Test wall	45,5	150	

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-506)		P
	Ambient T1 (°C): 21,3; Ambient T2 (°C): 21,0	—	

	Test voltage (V): 239,3	—
	Test input power (W): $(240/230)^2$x1800=1959,9	—
Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	56,3	65
Metal enclosure	43,5	45
Test wall	28,9	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-309)	P
	Ambient T1 (°C): 20,6; Ambient T2 (°C): 19,5	—
	Test voltage (V): 246,1	—
	Test input power (W): $(240/230)^2$x1400=1524,4	—
Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	62,7	65
Metal enclosure	42,6	45
Test wall	50,5	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-310)	P
	Ambient T1 (°C): 20,2; Ambient T2 (°C): 20,9	—
	Test voltage (V): 244,8	—
	Test input power (W): $(240/230)^2$x1400=1524,4	—
Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	43,2	65
Metal enclosure	34,2	45
Test wall	43,6	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-531)	P
	Ambient T1 (°C): 22,6; Ambient T2 (°C): 22,8	—
	Test voltage (V): 235,0	—
	Test input power (W): $(240/230)^2$x1800=1959,9	—
Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	38,6	65
Metal enclosure	41,0	45
Test wall	32,2	150

EK1AG2	TABLE: Temperature rise limits for surfaces (GLA-532)	P
	Ambient T1 (°C): 22,1; Ambient T2 (°C): 22,2	—
	Test voltage (V): 235,7	—
	Test input power (W): $(240/230)^2$x1800=1959,9	—

Thermocouple locations	dT (K)	Max. dT (K)
Plastic enclosure	35,9	65
Metal enclosure	36,6	45
Test wall	36,2	150

<End of Annex IV>