




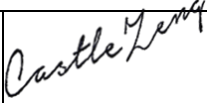
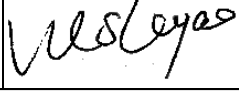
Test Report issued under the responsibility of:



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TEST REPORT IEC 60335-2-15 Safety of household and similar electrical appliances Part 2: Particular requirements for appliances for heating liquids	
Report Number.	365246
Date of issue	2017 Dec 08, Amendment No.3: 2018 Dec 07
Total number of pages	37 pages and see page 3 for attachment list.
Name of Testing Laboratory preparing the Report	Nemko Shanghai Ltd. Shenzhen Branch
Applicant's name	
Address	
Test specification:	
Standard	IEC 60335-2-15:2012, AMD1:2016 for use in conjunction with IEC 60335-1:2010, AMD1:2013, AMD2:2016
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC60335_2_15O
Test Report Form(s) Originator	IMQ S.p.A.
Master TRF	Dated 2017-09
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General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

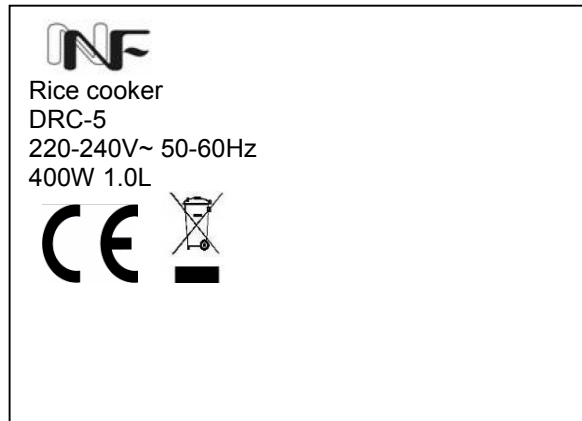
This Test Report, when bearing the Nemko name and logo is only valid when issued by a Nemko laboratory, or by a laboratory having special agreement with Nemko.

Test item description..... :	Rice cooker	
Trade Mark..... :		
Manufacturer		
Model/Type reference	RCXXXXX, see page 6-7 for models and variant explanation	
Ratings	200W, 300W, 350W, 400W, 500W, 700W, 900W or 1000W 220-240V~ 50-60Hz Cl. I	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	Nemko Shanghai Ltd. Shenzhen Branch
Testing location/ address..... :		Unit CD, Floor 2 & Floor 10, Tower 2, Kefa Road 8#, Hi-Technology Park, Nanshan District, Shenzhen, Guangdong, China
Tested by (name, function, signature)		Castle Zeng (Project handler) 
Approved by (name, function, signature)...		Wesley Yao (Verificator) 
Testing procedure: CTF Stage 1:		
Testing location/ address..... :		
Tested by (name, function, signature)		
Approved by (name, function, signature)...		
Testing procedure: CTF Stage 2:		
Testing location/ address..... :		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature)...		
Testing procedure: CTF Stage 3:		
Testing procedure: CTF Stage 4:		
Testing location/ address..... :		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature)...		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment): Attachment 1: EN 60335-1 / A13: 2017, 1 page Attachment 2: Photos, 1 page	
Summary of testing: This limited report shall be used together with main report 342510 dated 2017-12-08 and limited report 348265 dated 2018-02-05, 352440 dated 2018-05-07. Update concern refer to project history.	
Tests performed (name of test and test clause): See table of project history for name of test and test clause. The tested samples are complying with the relevant product standard(s): <u>Safety standards:</u> IEC 60335-2-15:2012, A1:2016 for use in conjunction with IEC 60335-1:2010, A1:2013+A2:2016 EN 60335-2-15:2016 used in conjunction with EN 60335-1:2012 + AC:2014 + A11:2014+ A13:2017 <u>EMF standards</u> EN 62233:2008	Testing location: Nemko Shanghai Ltd. Shenzhen Branch Unit CD, Floor 2 & Floor 10, Tower 2, Kefa Road 8#, Hi-Technology Park, Nanshan District, Shenzhen, Guangdong, China
Summary of compliance with National Differences (List of countries addressed): Refer to main report 342510	

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.



All other models' label is the same as the above one except for the model name, rated capacity and rated power input.

Test item particulars: Classification of installation and use : Portable appliance, unattended use Supply Connection : Supply cord with plug, Appliance coupler Or type Y attachment. :	
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 : 2018-11-24 Date (s) of performance of tests : 2018-11-24 to 2018-11-30	
General remarks: "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Manufacturer's Declaration per Sub-clause 4.2.5 of IEC 60335-1:	
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.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) :	

General product information:

This report covers a variant RCD-YY.

These models are rice cookers with cooking and warming function. There are two supply connections as optional, one is type Y attachment, and one is appliance coupler.

Main model: RCXXXXX.

The XXXXX can be W-2, -2A, -2B, -2C, -2D, -2E, -2F, -2M, -2AM, -2BM, -2CM, -2DM, -2EM, -2FM, -3, -3A, -3B, -3C, -3D, -3E, -3F, -3M, -3AM, -3BM, -3CM, -3DM, -3EM, -3FM, -4, -4A, -4B, -4C, -4D, -4E, -4F, -4M, -4AM, -4BM, -4CM, -4DM, -4EM, -4FM, -5, -5A, -5B, -5C, -5D, -5E, -5F, -5M, -5AM, -5BM, -5CM, -5DM, -5EM, -5FM, -5GM, -8, -8A, -8B, -8C, -8D, -8E, -8F, -8M, -8AM, -8BM, -8CM, -8DM, -8EM, -8FM, -10, -10A, -10B, -10C, -10D, -10E, -10F, -10M, -10AM, -10BM, -10CM, -10DM, -10EM, -10FM, -10GM, -15, -15A, -15B, -15C, -15D, -15E, -15F, -15M, -15AM, -15BM, -15CM, -15DM, -15EM, -15FM, -16, -16A, -16B, -16C, -16D, -16E, -16F, -16M, -16AM, -16BM, -16CM, -16DM, -16EM, -16FM.

Rating: 200W, 300W, 350W, 400W, 500W, 700W, 900W or 1000W 220-240V~ 50-60Hz

Variant 1: RCD-YY.

The YY can be 8 or 10.

Rating: 500 or 700W 220-240V~ 50-60Hz

Variant 2: DRC-5, it is identical to RC-5M except the enclosure material is plastic and colour can be white, black or red for alternative, it can be with or without steamer for optional.

Rating: 400W 220-240V~ 50-60Hz

All models are same except the capacity, size, power rating. Model with M represent for the appliance has micro switch as part of temperature limiter.

Model differences:

Model	Micro switch	Power rating	Rated capacity	Control
RC-2, RC-2A, RC-2B, RC-2C, RC-2D, RC-2E, RC-2F	No	200W	0.4L	Mechanical
RCW-2, RC-2M, RC-2AM, RC-2BM, RC-2CM, RC-2DM, RC-2EM, RC-2FM	Yes			
RC-3, RC-3A, RC-3B, RC-3C, RC-3D, RC-3E, RC-3F	No	300W	0.6L	
RC-3M, RC-3AM, RC-3BM, RC-3CM, RC-3DM, RC-3EM, RC-3FM	Yes			
RC-4, RC-4A, RC-4B, RC-4C, RC-4D, RC-4E, RC-4F	No	350W	0.8L	
RC-4M, RC-4AM, RC-4BM, RC-4CM, RC-4DM, RC-4EM, RC-4FM	Yes			
RC-5, RC-5A, RC-5B, RC-5C, RC-5D, RC-5E, RC-5F	No	400W	1.0L	
RC-5M, DRC-5, RC-5AM, RC-5BM, RC-5CM, RC-5DM, RC-5EM, RC-5FM, RC-5GM	Yes			
RC-8, RC-8A, RC-8B, RC-8C, RC-8D, RC-8E, RC-8F	No	500W	1.5L	
RC-8M, RC-8AM, RC-8BM, RC-8CM, RC-8DM, RC-8EM, RC-8FM	Yes			
RC-10, RC-10A, RC-10B, RC-10C, RC-10D, RC-10E, RC-10F	No	700W	1.8L	
RC-10M, RC-10AM, RC-10BM, RC-10CM, RC-10DM, RC-10EM, RC-10FM, RC-10GM	Yes			
RC-15, RC-15A, RC-15B, RC-15C, RC-15D, RC-15E, RC-15F	No	900W	2.5L	
RC-15M, RC-15AM, RC-15BM, RC-15CM, RC-15DM, RC-15EM, RC-15FM	Yes			

Model	Micro switch	Power rating	Rated capacity	Control
RC-16, RC-16A RC-16B, RC-16C, RC-16D, RC-16E, RC-16F	No	1000W	2.8L	Mechanical
RC-16M, RC-16AM, RC-16BM, RC-16CM, RC-16DM, RC-16EM, RC-16FM	Yes			
RCD-8	No	500W	1.5L	Electronic
RCD-10	No	700W	1.8L	

Project history:

Nemko Report/ Order No.:	Modification to the appliances:	Changes / Modifications in clause(s):
342510	Original test report	---
348265	Amendment No. 1: 1. Add alternative Plug,Appliance inlet and Non self-reset thermal cut-out	Cl. 24
352440	Amendment No. 2: 2. Add alternative Plug,supply cord and Micro switch	Cl. 24
365246	Amendment No. 3: 1. Update component list 2. Update EN standard to EN 60335-1:2012 + A11:2014+A13:2017 3. Update applicant/manufacturer/factory for address 4. Update model RC-15 Internal view photo	Cl. 19,24

Marking label, instruction manual, packing text:

Instructions and marking shall be in a language acceptable for the country where the equipment is to be used.

Mains plug:

If the equipment shall be used with a special mains plug which is not listed in the component list (e.g. United Kingdom), samples of the modified product must be subject to a test according to the relevant clauses of the product standard.

Other product properties:

Depending on the country where the equipment is to be used, national deviations may be considered. Samples of the modified product may be tested again according to relevant clauses of the product standard, modified by national deviations.

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
19	ABNORMAL OPERATION		--
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 :		N/A
	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		N/A
	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		N/A
	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		N/A
	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
	Kettles are not subjected to the test of 19.2 (IEC 60335-2-15)		N/A
	Kettles also subjected to the test of 19.101, unless the appliance incorporates a non-self-resetting thermal cut-out, in order to comply with 19.4 (IEC 60335-2-15)		N/A
	Kettles for which compliance with 19.101 relies on the operation of a non-self-resetting thermal cut-out are subjected to the test of 19.102 (IEC 60335-2-15)		N/A
	For appliances with an external surface providing a keep warm function, the test of 19.106 applies (IEC 60335-2-15, AMD1)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	For coffee-makers having a decorative door, the test of 19.107 applies (IEC 60335-2-15, AMD1)		N/A
	For automatic coffee-makers of the coffee bean type, the tests of 19.108 applies (IEC 60335-2-15, AMD1)		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)..... :	RC-2A: $0.85 \times (220/230)^2 \times 200W=155.5W$ RC-16AM: $0.85 \times (220/230)^2 \times 1000W=777.8W$ RCD-10: $0.85 \times (220/230)^2 \times 700W=544.4W$ DRC-5: $0.85 \times (220/230)^2 \times 400W=311.1W$	P
	Appliances are placed as near as possible to the walls of the test corner (IEC 60335-2-15)		P
	They are tested empty with lids open or closed whichever is the more unfavourable (IEC 60335-2-15)	Lid open	P
	Induction rice cookers operating under the conditions of Clause 11 with the rice container empty (IEC 60335-2-15)		N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1,24 times rated power input (W) :	RC-2A: $1.24 \times (240/230)^2 \times 200W=270W$ RC-16AM: $1.24 \times (240/230)^2 \times 1000W=1350.2W$ RCD-10: $1.24 \times (240/230)^2 \times 700W=945.1W$ DRC-5: $1.24 \times (240/230)^2 \times 400W=540.1W$	P
	Kettles are operated empty at 1,15 times rated power input (IEC 60335-2-15)		N/A
	The test is carried out with the kettle filled with sufficient water to cover the heating element or if the heating element is not positioned inside the container, to a depth of 10 mm (IEC 60335-2-15)		N/A
19.4	Test conditions as in Clause 11, any control limiting the temperature during tests of Clause 11 short-circuited	Temperature limiter short-circuited RCD-10: NTC inoperative.	P
	Pressure cookers: (IEC 60335-2-15)		--
	- all pressure regulating devices rendered inoperative; and		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- in other than dynamic pressure cookers, all protective devices that vent steam and intentionally weak parts that vent steam rendered inoperative; and		N/A
	- in dynamic pressure cookers, all protective devices, other than intentionally weak parts, that vent steam rendered inoperative		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		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
	The working voltage of the PTC heating element is increased by 5 % and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1,5 times working voltage or until the PTC heating element ruptures (V)		N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		N/A
	locking moving parts of other appliances		N/A
	Locked rotor, capacitors open-circuited one at a time		N/A
	Test repeated with capacitors short-circuited one at a time, unless		N/A
	the capacitor is of class S2 or S3 of IEC 60252-1		N/A
	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed		N/A
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit		N/A
	Other appliances supplied with rated voltage for a period as specified		N/A
	Espresso coffee-makers incorporating a pump operated for a period of 5 min (IEC 60335-2-15)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Soy milk makers operated for one cycle of operation (IEC 60335-2-15)		N/A
	Winding temperatures not exceeding values specified in Table 8		N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously		N/A
	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test		N/A
	Winding temperatures not exceeding values as specified		N/A
19.10	Series motor operated at 1,3 times rated voltage for 1 min (V)		N/A
	During the test, parts not being ejected from the appliance		N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault 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		N/A
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless		N/A
	restarting does not result in a hazard		P
	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		N/A
	During and after each test the following is checked:		--
	- the temperature of the windings do not exceed the values specified in Table 8		N/A
	- 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

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit		N/A
19.11.2	Fault conditions applied one at a time, the appliance operating under conditions specified in Clause 11, but supplied at rated voltage, duration of the tests as specified:		--
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in Clause 29		P
	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		P
	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		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	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	No possible unsafe operation	N/A
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, 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
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified		N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N/A
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		N/A
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		N/A
	Earthed heating elements in class I appliances disconnected		N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N/A
	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		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60 s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate		N/A
	The appliance continues to operate normally, or		N/A
	requires a manual operation to restart		N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)..... :		N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in Table 9	(see appended table)	P
	Compliance with Clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in Table 4:		--
	- basic insulation (V)	1000V	P
	- supplementary insulation (V)	1750V	P
	- reinforced insulation (V).....	3000V	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:		--

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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 19.4, protective devices of pressure cookers other than dynamic pressure cookers operate before pressure has reached 350 kPa (IEC 60335-2-15)		N/A
	During the test of 19.4, protective devices or intentionally weak parts of dynamic pressure cookers operate before pressure has reached 250 kPa (IEC 60335-2-15)		N/A
	Temperature rise of windings of induction rice cookers not exceeding the values specified in 19.7 (IEC 60335-2-15)		N/A
	Induction rice cookers: electric strength test carried out immediately after switching off the appliance (IEC 60335-2-15)		N/A
19.14	Appliances operated under the conditions of Clause 11, any contactor or relay contact operating under the conditions of Clause 11 being short-circuited		N/A
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		N/A
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited		P
	If more than one relay or contactor operates in Clause 11, they are short-circuited in turn		N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		N/A
19.101	Kettles operated empty at 0,85 times or 1,15 times rated power input, whichever is more unfavourable, with thermal cut-out that operates during the test of 19.4 short circuited (IEC 60335-2-15)		N/A
	During the test, any flames keep within the enclosure of the kettle and supporting surface does not ignite		N/A
	After the test, live parts not be accessible		N/A
19.102	Kettles are placed on a plywood board having a thickness of approximately 20 mm (IEC 60335-2-15, AMD1)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	Kettles incorporating two self-resetting thermal cut-outs operated with one of the thermal cut-out short circuited, empty at 0,85 or 1,15 times rated power input, whichever is most unfavourable (IEC 60335-2-15)		N/A
	Within 2 s of the thermal cut-out operating, the kettle is filled with water having a temperature of 15 °C ±5 °C. After 1 min, the kettle is emptied		N/A
	The test is carried out 100 times		N/A
19.103	Appliances with detachable liquid containers: automatic transfer of liquid from one container to another is liable and safe (IEC 60335-2-15)		N/A
	Compliance is checked by the test as specified		N/A
	After the test, the appliance withstands the tests of 16.3, and		N/A
	no trace of water on insulation which can result in reduction of creepage distances and clearances below values specified in Clause 29		N/A
19.104	The overloading of a soy milk maker does not result in a hazard (IEC 60335-2-15)		N/A
	Compliance is checked by the test as specified		N/A
	During the test, any flames keep within the enclosure and supporting surface does not ignite		N/A
	After the test, live parts not be accessible		N/A
19.105	When a soy milk maker is disconnected from the supply accidentally during normal use, it does not result in a hazard (IEC 60335-2-15)		N/A
	Compliance is checked by the test as specified		N/A
	During the test, any flames keep within the enclosure and supporting surface does not ignite		N/A
	After the test, live parts not be accessible		N/A
19.106	The appliance is operated at rated power input with the heated surface completely covered with two layers of textile material of pre-washed double-hemmed cotton sheets until steady conditions are established (IEC 60335-2-15, AMD1)		N/A
	If a thermostat operates, the test is repeated with the one-third of the heated surface furthest from the temperature-sensing element covered (IEC 60335-2-15, AMD1)		N/A
	The textile material shall not ignite (IEC 60335-2-15, AMD1)		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
19.107	Coffee-makers with a decorative door or intended to be used in a cabinet are operated under the conditions specified in Clause 11 but with the decorative door or cabinet door closed (IEC 60335-2-15, AMD1)		N/A
19.108	Automatic coffee-makers of the coffee bean type, other than automatic espresso coffee-makers of the coffee bean type, are supplied at rated voltage and operated under normal operation five times with rest periods (IEC 60335-2-15, AMD1)		N/A
	Automatic espresso coffee-makers of the coffee bean type are supplied at rated voltage and are set to maximum quantity of coffee powder, with smallest amount of coffee in the cup according to the instructions without rest periods (IEC 60335-2-15, AMD1)		N/A
	The duration of the operating period is (IEC 60335-2-15, AMD1)		--
	– for appliances incorporating a timer, the longest period allowed by the timer;		N/A
	– for other appliances, as follows:		N/A
	• for automatic coffee-makers incorporating coffee mills of the grinding type, 30 s longer than the time needed to fill the collecting container or the time required to empty the hopper, whichever is shorter;		N/A
	• for automatic coffee-makers incorporating other coffee mills, 1 min		N/A
	The duration of the rest period for is (IEC 60335-2-15, AMD1)		--
	– 10 s, for appliances provided with a collecting container;		N/A
	– 60 s, for other appliances		N/A
	The temperature of the windings shall not exceed the values shown in Table 8 (IEC 60335-2-15, AMD1)		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		N/A
	Relays tested as part of the appliance, or		N/A
	alternatively according to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		N/A

IEC 60335-2-15			
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		N/A
	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
	Lamp holders and starter holders 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 60335-2-15			
Clause	Requirement + Test		Verdict
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14		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 comply 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 comply 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		N/A
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
	Switches incorporated in espresso coffee-makers for initiating brewing or steaming tested for 10 000 cycles (IEC 60335-2-15)		N/A
	Switches incorporated in dynamic pressure cookers for controlling heaters are subjected to 50 000 cycles of operation and are tested under the conditions of Clause 11 with the appliance supplied at rated voltage (IEC 60335-2-15)		N/A
24.1.4	Automatic controls comply with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		--
	- thermostats:	10 000	N/A
	- temperature limiters:	1000	P
	- self-resetting thermal cut-outs:	300	N/A
	- voltage maintained non-self-resetting thermal cut-outs:	1000	P
	- other non-self-resetting thermal cut-outs:	30	N/A
	- timers:	3000	N/A
	- energy regulators:	10 000	N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
	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 Sub-clause 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
	Self-resetting thermal cut-outs required for compliance with the test of 19.101 are subjected to 3000 cycles of operation (IEC 60335-2-15)		N/A
24.1.5	Appliance couplers comply with IEC 60320-1		P
	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		N/A
	Interconnection couplers comply with IEC 60320-2-2		N/A
	Appliance couplers incorporating thermostats, thermal cut-outs or fuses in the connectors comply with IEC 60320-1, except that: (IEC 60335-2-15)		N/A
	- the earthing contact of connector is allowed to be accessible, if contact is not likely to be gripped during insertion or withdrawal of the connector;		N/A
	- the temperature required for the test of Clause 18 is that measured on the pins of the appliance inlet during test of Clause 11 of this standard;		N/A
	- the breaking-capacity test of Clause 19 carried out using the inlet of the appliance;		N/A
	- the temperature rise of current-carrying parts specified in Clause 21 not determined		N/A
	Thermal controls are not allowed in connectors complying with the standard sheets of IEC 60320-1 (IEC 60335-2-15)		N/A
24.1.6	Small lampholders similar to E10 lampholders comply with IEC 60238, the requirements for E10 lampholders being applicable		N/A

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		N/A
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance		N/A
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		P
	the solder has a melting 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
	Not applicable to the connection between the appliance and the stand of cordless appliances (IEC 60335-2-15)		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

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict
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
	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	Devices incorporated in appliance, other than kettles, in order to comply with 19.4 are non-self-resetting (IEC 60335-2-15)		P
	However, self-resetting thermal cut-outs are allowed for fixed water boilers, if they have been tested for 10 000 cycles of operation		N/A
	Compliance is checked by inspection and during the test of 19.4		P

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict

19.13	TABLE: Abnormal operation, temperature rises			P
Thermocouple locations	Max. temperature rise measured, ΔT (K)		Max. temperature rise limit, ΔT (K)	
	RCD-16			
Clause 19.4: (Thermal cut-out operate)				
Supply cord	52		150	
Test corner	57		150	
Supplementary information:				

IEC 60335-2-15			
Clause	Requirement + Test	Result - Remark	Verdict

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Plug	Zhongshan Guzhen Hongli, Cable& Appliance Factory	HL-5	16A, 250VAC	IEC 60884-1 DIN EN 0620-1	VDE (131607)	
Alt.	Zhanjiang Anjia Electronics Industry Co.,Ltd	AJ-05	16A,250VAC	IEC 60884-1 DIN EN 0620-1	VDE (40022027)	
Alt.	Unirise Electric Wire & Cable Co., Ltd.	UE-312	16A, 250VAC	IEC 60884-1 DIN EN 0620-1	VDE (40013356)	
Alt.	Zhanjiang Yexing Electrical appliance Co., Ltd	YX301	16A, 250VAC	IEC 60884-1 DIN EN 0620-1	VDE (40027107)	
Alt.	Anhui Dinatong Wire Co., Ltd	DNT-13	250V~ 16A	DIN VDE 0620-1 IEC 60884-1	VDE (40024353)	
Alt.	Interchangeable	Interchangeable	16A, 250VAC	IEC 60884-1 CEE 7	Any authorized body	
Plug for UK	Yongkang Kangda Electric Appliance Co., Ltd	KD-168	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	BSI (KM71081)	
Alt.	Junda Industrial Co., Ltd.	8811 8821	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	Intertek ASTA (1167)	
Alt.	Dongguan Ubill Electrical Co., Ltd.	UBL 8008 AP-411A	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	Intertek ASTA (1183)	
Alt.	Friendship Enterprises Int Ltd	FE-130P	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	BSI (KM99612)	
Alt.	Kenic Electric Mfg Co Ltd	KE-88	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	BSI (KM54019)	
Alt.	Friendship Enterprises Int Ltd	FE-129P	13A, 250VAC With 5A,10A or 13A	BS 1363-1	ASTA (1293)	

IEC 60335-2-15					
Clause	Requirement + Test		Result - Remark		Verdict
			fuse.		
Alt.	Zhanjiang Anjia Electronics Industry Co.,Ltd	AJ-601	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	ASTA (1306)
Alt.	Anhui Dinatong Wire Co., Ltd	DNT-62	250V~, 13A with 5A, 10A or 13A fuse	BS 1363-1	Intertek ASTA (968)
Alt.	Interchangeable	Interchangeable	13A, 250VAC With 5A, 10A or 13A fuse.	BS 1363-1	Any authorized body
Plug for Malaysia	Guangzhou Towell Electrical Appliance Co.,Ltd	808	13A, 250VAC	MS 589	SIRIM QAS (PP072403)
Alt.	PSE GLOBAL PTE LTD.	8811 or 8812	250V~, 13A	MS 589	SIRIM QAS (PC000383)
Alt.	Friendship Enterprise International Ltd	FE-130P	250V~, 13A	MS589	SIRIM QAS SJT161109 119022017
Alt.	Interchangeable	Interchangeable	250V~, 13A	MS 589	SIRIM QAS
Plug for Saudi Arabia	Junda Industrial Co., Ltd	8811 or 8821	250V~, 13A	SASO 2203:2003+ SASO: 443:2003	SASO: HK1207146 5-4
Alt.	Interchangeable	Interchangeable	250V~, 13A	SASO 2203:2003+ SASO: 443:2003	SASO
Plug for Singapore	PSE Electrical Manufacturing Pte Ltd	8811 or 8821	250V~, 13A	SS 145-1:2010	Intertek 130059-12
Alt.	Friendship Enterprise International Ltd	FE-130P	250V~, 13A	SS 145-1:2010	Intertek 170961-12
Alt.	Interchangeable	Interchangeable	250V~, 13A	SS 145-1:2010	Intertek
Plug for Australia	Friendship Enterprise International Ltd	FE-104P FE-105P FE-105P-A	250V~ 10A	AS/NZS3112:2004+ A1	Fair Trading NSW24571
Alt.	Zhanjiang Anjia Electronics Industry	AJ-08	250V~ 10A	AS/NZS3112:2004+ A1	Fair Trading NSW23515

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
	Co.,Ltd.				
Alt.	ANHUI DINATONG WIRE CO., LTD	DNT-42A	250V~ 10A	AS/NZS3112:2011+A1	Queensland ESO170523
Alt.	Interchangeable	Interchangeable	250V~ 10A	AS/NZS3112:2004+A1	Fair Trading
Plug for Korea	ANHUI DINATONG WIRE CO., LTD	DNT-13	250V~ 16A	KC60884-1	KC SU04195-16001A
Alt.	Ningbo Friendship Electronics Co., Ltd	FE-114P	250V~ 16A	KC60884-1	KC SU04038-4001B
Supply cord (for model RC-2 series, RCW-2, RC-3 series, RC-4 series, RC-5 series, RC-8 series, RCD-8, DRC-5)	Zhanjiang Anjia Electronics Industry Co.,Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	IEC 60227 EN 50525	VDE (40017611)
Alt.	Zhongshan Aoli Electric Co., Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	IEC 60227 EN 50525	VDE (40014115)
Alt.	Zhanjiang Yexing Electrical appliance Co., Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	IEC 60227 EN 50525	VDE (40021360)
Alt.	Ningbo Light heavy Electronic Technology Co., Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	IEC 60227 EN 50525	VDE (40007592)
Alt.	Ningbo Light-Heavy Electronics Technology Co., Ltd	H03VV-F H05VV-F	3G0,5mm² (length < 2m) 3G0,75mm² 3G1,0mm²	IEC 60227 EN 50525	VDE (40035166)
Alt.	Kenic Electric Mfg Co Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ²	IEC 60227 EN 50525	VDE (103853)

IEC 60335-2-15					
Clause	Requirement + Test		Result - Remark		Verdict
			3G1,0mm ²		
Alt.	Anhui Dinatong Wire Co., Ltd.,	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	IEC 60277 EN 50525	VDE (40021216)
Alt.	Interchangeable	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	IEC 60227 EN 50525	Any authorized body
Supply cord for Australia (for model RC-2, RCW-2, series, RC-3 series, RC-4 series, RC-5 series, RC-8 series, RCD-8, DRC-5)	Zhanjiang Anjia Electronis Industry Co.,Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	AS/NZS 3191	Fair Trading (NSW22933)
Alt.	Friendship Enterprise International Ltd	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	AS/NZS 3191	Fair trading NSW22964
Alt.	ANHUI DINATONG WIRE CO., LTD	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	AS/NZS60227.5	Queensland ESV170289
Alt.	Interchangeable	H03VV-F H05VV-F	3G0,5mm ² (length < 2m) 3G0,75mm ² 3G1,0mm ²	AS/NZS 3191	Any authorized body
Supply cord (for model RC-10 series, RC-15 series, RC-16 series, RCD-10)	Zhanjiang Anjia Electronis Industry Co.,Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	IEC 60227 EN 50525	VDE (40017611)
Alt.	Zhongshan Aoli Electric Co., Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	IEC 60227 EN 50525	VDE (40014115)
Alt.	Zhanjiang Yexing Electrical	H05VV-F	3G1,0mm ² 3G0,75mm ²	IEC 60227 EN 50525	VDE (40021360)

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
	appliance Co., Ltd		(length < 2m)		
Alt.	Ningbo Light heavy Electronic Technology Co., Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	IEC 60227 EN 50525	VDE (40007592)
Alt.	Ningbo Light-Heavy Electronics Technology Co., Ltd	H05VV-F	3G1,0mm² 3G0,75mm² (length < 2m)	IEC 60227 EN 50525	VDE (40035166)
Alt.	Kenic Electric Mfg Co Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	IEC 60227 EN 50525	VDE (103853)
Alt.	Anhui Dinatong Wire Co., Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	IEC 60277 EN 50525	VDE (40021216)
Alt.	Interchangeable	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	IEC 60227 EN 50525	Any authorized body
Supply cord for Australia (for model RC-10 series, RC-15 series, RC-16 series, RCD-10)	Zhanjiang Anjia Electronis Industry Co.,Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	AS/NZS 3191	Fair trading NSW22933
Alt.	Friendship Enterprise International Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	AS/NZS 3191	Fair trading NSW22964
Alt.	ANHUI DINATONG WIRE CO., LTD	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	AS/NZS60227.5	Queensland ESV170289
Alt.	Interchangeable	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	AS/NZS 3191	Any authorized body
Supply cord for Korea	Ningbo Friendship Electronics Co., Ltd	H05VV-F	3G1,0mm ² 3G0,75mm ² (length < 2m)	KC60884-1	KC SU01025-4001
Alt.	Interchangeable	H05VV-F	3G1,0mm ² 3G0,75mm ²	KC60884-1	KC

IEC 60335-2-15					
Clause	Requirement + Test		Result - Remark		Verdict
			(length < 2m)		
Appliance inlet	Pronic Electronic (Shenzhen) Co., Ltd.	PST-101	250V, 10A Tmax: 70°C	IEC 60320-1 EN 60320-1	VDE (40014579)
Alt.	Steady Electronics	2107	250V, 10A	IEC 60320-1 EN60320-1	VDE (40011923)
Alt.	Zhanjiang Anjia Electronics Industry Co., Ltd.	AJ-060	250V, 10A	IEC/EN60320-1	VDE 40040664
Alt.	Zhejiang LECI Electronics Co., Ltd	DB-14	250V, 10A	IEC/EN60320-1	VDE 40032137
Alt.	Dong Guan Shi Yuankai Plastic Co., Ltd	XHL-052A	250V, 10A	IEC/EN60320-1	TUV B170901899 001
Connector	New Square Company Ltd.	NS-15	AC250V, 10A	IEC 60320-1 EN 60320-1	VDE/(11803 3)
Alt.	Zhanjiang Anjia Electronics Industry Co., Ltd	AJ-06	AC250V, 10A	IEC 60320-1 EN 60320-1	VDE/ (40034404)
Alt.	Friendship Enterprises Int Ltd	FE-503A FE-503	250V, 13A	IEC/EN 60320-1	VDE 40030093
Alt.	Kenic Electric Mfg Co Ltd	KE-24	250V, 10A	IEC/EN 60320-1	VDE 40003450
Alt.	Interchangeable	Interchangeable	AC250V, 10A	IEC/EN 60320-1	VDE
Connector for Australia	Zhanjiang Anjia Electronics Industry Co., Ltd.	AJ-012	AC250V, 10A	AS/NZS 60320.1	Fair Trading 23555
Alt.	Friendship Enterprise International Ltd	FE-503A FE-503	AC250V, 10A	AS/NZS 60320.1	Fair Trading 17435
Alt.	Shanghai Dinatong Wire Co., Ltd	DNT-07	250V, 10A	IEC/EN 60320-1	VDE 40038025
Alt.	Interchangeable	Interchangeable	AC250V, 10A	AS/NZS 60320.1	Fair Trading
Thermal link (Except	Aupo	AF184X	184°C, AC250V,	IEC 60691	VDE

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
DRC-5)	Electronics Ltd.		16A	EN 60691	(40005418)
Alt.	Aupo Electronics Ltd.	BF184X	184°C, AC250V, 16A	IEC 60691 EN 60691	VDE (40005418)
Alt.	Dong Yang Electronics Co.,Ltd.	DF184S	184°C, AC 250V, 15A	IEC 60691 EN 60691	VDE (40017388)
Alt.	NEC Components Corporation	SF184E-1	184°C, AC 250V, 15A	IEC 60691 EN 60691	VDE (40006568)
Alt.	NEC Components Corporation	SF184E	184°C, AC 250V, 15A	IEC 60691 EN 60691	VDE (40006568)
Alt.	Therm-O-Disc Europe B.V.	G6x184	AC250V, 16A, 184°C	IEC 60691 EN 60691	VDE (40017228)
Alt.	Therm-O-Disc Europe B.V.	E6x184	AC250V, 16A, 184°C	IEC 60691 EN 60691	VDE (40017228)
Thermal link (for RC-10, RC-15, RC-16)	ZhongShan Qilin Electronics Co.,Ltd	QLF188	192°C, AC250V, 16A	IEC 60691 EN 60691	TUV B 15 07 90735 001 Rev.02
Alt.	Aupo Electronics Ltd.	AF192	192°C, AC250V, 16A	IEC 60691 EN 60691	VDE (40005418)
Alt.	Aupo Electronics Ltd.	BF192	192°C, AC250V, 16A	IEC 60691 EN 60691	VDE (40005418)
Alt.	ZhongShan LongDe Electrical Co.,Ltd	RY192	192°C, AC250V, 10A	IEC 60691 EN 60691	TUV B 13 05 67446 021
Alt.	SCHOTT Japan Corporation	SF188E	192°C, AC250V, 15A	IEC 60691 EN 60691	VDE (40006568)
Alt.	SCHOTT Japan Corporation	SF188E-1	192°C, AC250V, 15A	IEC 60691 EN 60691	VDE (40006568)
Thermal link for DRC-5	Aupo Electronics Ltd.	AF157X	157°C, AC250V, 16A	IEC 60691 EN 60691	VDE (40005418)
Alt.	Aupo Electronics Ltd.	BF157X	157°C, AC250V, 16A	IEC 60691 EN 60691	VDE (40005418)
Temperature limiter for all models without suffix M	Electrical Appliance	R	AC250V, 10A Tf: 138°C	IEC 60335-2-15 EN 60335-2-15	Tested in appliance

IEC 60335-2-15					
Clause	Requirement + Test		Result - Remark		Verdict
Temperature limiter for all models with suffix M	Electrical Appliance	Y	AC250V, 10A Tf: 138°C	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Micro switch used as part of temperature limiter Y	Foshan Shunde Yushun Electric Appliance Ltd.	KW-16	250V, 16A, T125, 30000cycles	IEC/EN 61058	TUV R DE 2-014836
Alt.	Foshan Shunde Yushun Electric Appliance Ltd.	KW-16B	250V, 16A, T125, 30000cycles	IEC/EN 61058	TUV R DE 2-014836
Alt.	Foshan Shunde hushun Electric Appliance Ltd.	LXW-16-2-3	250V, 16A, T125, 30000cycles	IEC/EN 61058	TUV R 50156816
Alt.	Foshan Shunde Shuda Electric Appliance Co., Ltd.	KW-16	250V, 16A, T125, 30000cycles	IEC/EN 61058	TUV R 50359264
Internal wire Except for RC-2 series, RC-3 series, RC-4 series and RC-5 series, DRC-5 (Earthing, L, N, wire)	Nizing Electric Co.,ltd	3122	18AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance / UL (E215834)
Alt.	ZHANJIANG ANJIA ELECTRONIC S INDUSTRY CO LTD	3122	18AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E350598)
Alt.	ZHONGSHAN SEN TE WIRE & CABLE COLTD	3122	18AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E315793)
Internal wire Only for RC-2 series, RCW-2, RC-3 series, RC-4 series, DRC-5 and	Nizing Electric Co.,ltd	3122	20AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance / UL (E215834)

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
RC-5 series (Earthing, L, N, wire)					
Alt.	ZHANJIANG ANJIA ELECTRONIC S INDUSTRY CO LTD	3122	20AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E350598)
Alt.	ZHONGSHAN SEN TE WIRE & CABLE COLTD	3122	20AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E315793)
Internal wire (connecting indicator)	Nizing Electric Co.,ltd	3122	20AWG, 24AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance / UL (E215834)
Alt.	ZHANJIANG ANJIA ELECTRONIC S INDUSTRY CO LTD	3122	20AWG or 24AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E350598)
Alt.	ZHONGSHAN SEN TE WIRE & CABLE COLTD	3122	20AWG or 24AWG, 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E315793)
Glass-fibre bushing	Shenzhen WahChangWei Industries	SGS-15	VW-1, 600V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL (E233804)
Thermal link silicone sleeve	Shenzhen WahChangWei Industries	SRS-70*	T200, 600V	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL 233803
Insulation sheet used in the magnet switch	Kingboard Laminates (Macao Commercial Offshore	KB-3152	V-0, 130°C	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E123995
PCB	Kingboard Laminates (Macao Commercial Offshore	KB-3152 KB-5150, KB-6160	V-0, 130°C	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E123995
Alt.	SHANDONG JINBAO ELECTRONIC S CO LTD	ZD-95(G)F	V-0	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ ULE222366
Alt.	LAIZHOU PENGZHOU	PZ-23(G)F	V-0	IEC 60335-2-15	Tested in appliance/

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
	ELECTRONIC S CO LTD			EN 60335-2-15	ULE249104
Alt.	GUANGDONG CHENGDE ELECTRONIC TECHNOLOGY CO LTD	1	V-0	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E322995
Handle of body Control panel Indicator cover Control knob Handle of lid Bottom Enclosure plastic of DRC-5	Chi Mei Corporation	PA-765A(+)	V-0, 85°C	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E56070
Heating element (RC-2 series, RCW-2)	Electrical Appliance	--	220-240V, 200W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-3 series)	Electrical Appliance	--	220-240V, 300W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-4 series)	Electrical Appliance	--	220-240V, 350W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-5 series, DRC-5)	Electrical Appliance	--	220-240V, 400W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-8 series, RCD-8)	Electrical Appliance	--	220-240V, 500W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-10 series, RCD-10)	Electrical Appliance	--	220-240V, 700W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-15 series)	Electrical Appliance	--	220-240V, 900W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Heating element (RC-16 series)	Electrical Appliance	--	220-240V, 1000W	IEC 60335-2-15 EN 60335-2-15	Tested in appliance
Warming	Electrical	--	220-240V, 35W	IEC 60335-2-15	Tested in

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
element	Appliance			EN 60335-2-15	appliance
Non-self-reset thermal cut-out (except DRC-5) (Optional) ²⁾	Zhongshan Longde Electrical Co., Ltd	KSD301 KSD302	250VAC, 50/60Hz, 10-15A, operation temperature:175°C	IEC 60730-2-9 EN 60730-2-9	TUV SUD B130567446 017
Alt.	FoshanShunde Xingtanzhongbao Thermostat Co., Ltd	KSD301	10A 250V~ operation temperature:175°C	IEC 60730-2-9 EN 60730-2-9	TUV Rh R50114187
Alt.	Guangdong Huatian Electric appliances Co., Ltd	KSD301T series	250VAC, 50/60Hz, 10/16A, operation temperature:175°C	IEC 60730-2-9 EN 60730-2-9	CB CN30852
Alt.	Foshan Kehua Electric appliance Co., Ltd	KSD301	250VAC 10A or 16A, operation temperature:175°C	IEC 60730-2-9 EN 60730-2-9	TUV RH R50209508
Non-self-reset thermal cut-out for DRC-5 (Optional) ²⁾	Zhongshan Longde Electrical Co., Ltd	KSD301 KSD302	250VAC, 50/60Hz, 10-15A, operation temperature:155°C	IEC 60730-2-9 EN 60730-2-9	TUV SUD B130567446 017
Alt.	FoshanShunde Xingtanzhongbao Thermostat Co., Ltd	KSD301	10A 250V~ operation temperature:155°C	IEC 60730-2-9 EN 60730-2-9	TUV Rh R50114187
Alt.	Guangdong Huatian Electric appliances Co., Ltd	KSD301T series	250VAC, 50/60Hz, 10/16A, operation temperature:155°C	IEC 60730-2-9 EN 60730-2-9	CB CN30852
Alt.	Foshan Kehua Electric appliance Co., Ltd	KSD301	250VAC 10A or 16A, operation temperature:155°C	IEC 60730-2-9 EN 60730-2-9	TUV RH R50209508
Power switch (except DRC-5, DCW-2) (Optional) ³⁾	Jackson Electronics Ind. Corp.	Series JS-606	250V, 6A, T85	IEC 61058 EN 61058	VDE 40030036
Alt.	NINGBO YINXIAN LIHE SWITCH FACTORY	RL3	250V, 6(2)A, T125	IEC 61058 EN 61058	Intertek ENEC SE/09127-14

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	NINGBO YINXIAN LIHE SWITCH FACTORY	RL3	250V, 6A, T85	IEC 61058 EN 61058	Intertek ENEC SE/09127-14
Power switch for DRC-5,DCW-2 (Optional)3)	NINGBO YINXIAN LIHE SWITCH FACTORY	RL3	250V, 6(2)A, T125	IEC 61058 EN 61058	Intertek ENEC SE/09127-14
Plastic of Cord bushing (Optional)	LG CHEM (TIANJIN) ENGINEERING PLASTICS CO LTD	LUPOL GP-3156F(#)	PP, V-0	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E302314
Cord bushing	Heavy Power Co., LtdC	4K-4	230V~	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E107293
Varistor for model RCD-YY	THINKING ELECTRONIC INDUSTRIAL CO., LTD.	TVR 10471K	AC 1000V	IEC 60335-2-15/ EN60335-2-15/ IEC 61051	Tested in appliance / VDE005944
Alt.	Centra Science Corp.	CNR-10D471K	AC 1000V	IEC 60335-2-15/ EN60335-2-15/ IEC 61051	Tested in appliance / VDE 40008220
X capacitor for model RCD-YY	Shunde Da Hua Electric Co., Ltd.	HD MKP series	275V~ 0,1uF T105	IEC/EN60384-14	VDE 40027182
Alt.	Shanghai Xiang RiYaElectronic Co., Ltd.	MKP X2	275V~ 0,1uF T100	IEC/EN60384-14	VDE 40001876
Internal wire for NTC sensor for model RCD-YY	FOSHAN CITY ZHENG GUAN FLUORPLASTICS WIRE FACTORY	1332	24AWG, T200, 300V	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E307535
Alt. internal wire for NTC sensor for model RCD-YY	HONG SHUN WIRE & CABLE FLUOROPLASTICS FACTORY	1332	24AWG 300V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E238396
Alt. internal wire for NTC sensor for model RCD-YY	QIFURUI ELECTRONIC S CO	1332	24AWG, T200, 300V	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E211048

IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
Alt. internal wire for NTC sensor for model RCD-YY	KELIN WIRE CO LTD (DONGGUAN)	1332	24AWG, T200, 300V	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E250866
Alt. internal wire for NTC sensor for model RCD-YY	DONGGUAN WORLDFUL ELECTRIC WIRE CO LTD	1332	24AWG, T200, 300V	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E317806
Alt. internal wire for NTC sensor for model RCD-YY	DONGGUAN BOLI ELECTRONIC CO LTD	1332	24AWG, T200, 300V	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL E305164
Connector on PCB for model RCD-YY	E I Dupont De Nemours & Co Inc	FR72G25V0	V-0	IEC 60335-2-15/ EN60335-2-15	Tested in appliance / UL E41938
Closed-end connector	HEAVY POWER CO LTD	CE2	Thickness: 1,0 mm	IEC 60335-2-15/ EN60335-2-15	Tested in appliance / UL E113650
NTC for model RCD-YY	Hefei Sensing Electronic Co., Ltd	MF58-104-3950	100K (T=25°C)	IEC 60335-2-15/ EN60335-2-15	Tested in appliance
Alt.	NANJING SHIHENG ELECTRONIC S CO LTD	MF58-502F3470	100K (T=25°C)	IEC 60335-2-15/ EN60335-2-15	Tested in appliance
Silicone sleeve for NTC for model RCD-YY	Shenzhen WahChangWei Industries	SRS-70*	600V T200	IEC 60335-2-15 EN 60335-2-15	Tested in appliance/ UL 233803
Y capacitor for model RCD-YY	SHANTOU HIGH-NEW TECHNOLOGY DEV. ZONE SONGTIAN ENTERPRISE CO., LTD.	CD SERIES	400V~ 1000pF T125	IEC/EN 60384-14	VDE 40025754
Bridge resistor for model RCD-YY (Weak part)	Shenzhen GuojuTechnology Co., Ltd	KNP	10Ω, 1W	IEC 60335-2-15/ EN60335-2-15	Tested in appliance
Transformer for model	GUANGDONG SHUNDE	XLY-EE13-1035	Input: 100-240V output: 12V	IEC 60335-2-15/ EN60335-2-15	Tested in appliance

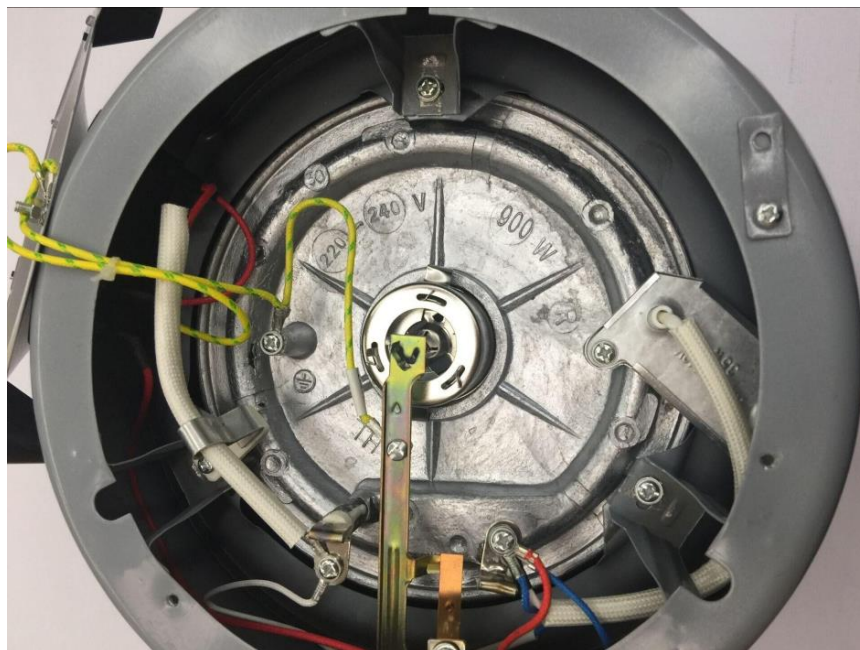
IEC 60335-2-15					
Clause	Requirement + Test			Result - Remark	Verdict
RCD-YY	XINLIYUAN ELECTRONIC S CO.,LTD		Class 130(B)		
Bobbin of transformer	CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150°C	IEC 60335-2-15/ EN60335-2-15	Tested in appliance / UL E59481
Relay for model RCD-YY	DONGGUAN SANYOU ELECTRICAL APPLIANCE CO., LTD.	SJ-S-112DM	250V~, 5A, Coil Voltage: DC12V 100000 Cycles, T85, Class 105 (A)	IEC 60335-2-15/ EN60335-2-15 EN 61810-1	Tested in appliance VDE 40002146
Alt.	Shaanxi Qunli Electric Co., Ltd	JZC-11F/012-1H1	250V~, 5A, Coil Voltage: DC12V 100000 Cycles, T85, Class 105 (A)	IEC 60335-2-15/ EN60335-2-15 EN 61810-1	Tested in appliance TUV Rh R50100487
Alt.	ANHUI MINGGUANG LIFE ELECTRONIC CO., LTD.	BJ-SS-112DM	250V~, 5A, Coil Voltage: DC12V 100000 Cycles, Class 105 (A)	IEC 60335-2-15/ EN60335-2-15 EN 61810-1	Tested in appliance TUV Rh R50183595
Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039. 2) It is a voltage maintained non self-reset thermal cut-out, it operates in clause 19.4. 3) It is optional for CB application.					

End of report

Attachment 1: EN 60335-1 / A13: 2017			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
ZZB	ANNEX ZZB (INFORMATIVE) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered		N/A

Attachment 2: Photo

Clause	Requirement + Test	Result - Remark	Verdict
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Internal view (Bottom) of model RC-15