

Report No.: 182414C400016101

Test Report

BAOERMA ELECTRICAL GROUP CO.,LTD Applicant

No.789 Xintang Road Fuhai Town Cixi City **Address**

Ningbo Zhejiang

Double drum Washing Machine Product Name

Report Date Jun. 11, 2024









TEST REPORT

IEC 60335-2-7

Safety of household and similar electrical appliances Part 2: Particular requirements for washing machines

Report Number....: 182414C400016101

Date of issue....:: Jun. 11, 2024 Total number of pages..... 105 pages

Name of Testing Laboratory

preparing the Report....:: Shenzhen Anbotek Compliance Laboratory Limited

Applicant's name.....: BAOERMA ELECTRICAL GROUP CO.,LTD

Address....:: No.789 Xintang Road Fuhai Town Cixi City Ningbo Zhejiang

Test specification:

Standard..... IEC 60335-2-7:2019 in conjunction with IEC 60335-1:2010, IEC

60335-1:2010/AMD1:2013, IEC 60335-1:2010/AMD2:2016

Test procedure....: Type test

Non-standard test method....:: N/A

IEC60335 2 7Q Test Report Form No.....:

Test Report Form(s) Originator....: **LCIE**

Master TRF.....: Dated 2022-08-19

General disclaimer:

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

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Tested by (name, function, signature):	James zhang Project Engineer	James 2hang	Anbotek
Approved by (name, function, signature):	Jeff Zhu Project Manager	Jeff hu	Anbore





Report No. 182414C400016101





Page 3 of 105

Double drum Washing Machine

Trade Mark....::

Test item description....:

Manufacturer.....: BAOERMA ELECTRICAL GROUP CO.,LTD

Model/Type reference.....: XPB110-2012S

Ratings...... 100-110V~, 50-60Hz, 520W

List of Attachments

Attachment 1: Photo documentation

Summary of testing:

Tests performed (name of test and test clause):

J60335-1(H27) J60335-2-7(H30)

The samples submitted were found to comply with above standards.

Testing location:

Shenzhen Anbotek Compliance Laboratory Limited 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Report No. 182414C400016101

Copy of marking plate:

Double drum Washing Machine

Model: XPB110-2012S

Rating: 100-110V~, 50-60Hz

Washing power: 520W, Washing capacity: 11.0kg
Dewatering power: 180W, Dewatering capacity: 6.5kg

Total power: 700W, IP rating: IPX4

Manufacturer: BAOERMA ELECTRICAL GROUP CO.,LTD

Address: No.789 Xintang Road Fuhai Town Cixi City Ningbo Zhejiang











Report No. 182414C400016101



Test item particulars.....: Double drum Washing Machine

Classification of installation and use.....: Stationary appliance

Supply Connection....: Type Y

Possible test case verdicts:

- test case does not apply to the test object.....: N

× .

- test object does meet the requirement.....: P (Pass)

- test object does not meet the requirement...... F (Fail)

Testing....:

Date of receipt of test item.....: May 21, 2024

Date (s) of performance of tests.....: May 21, 2024 to May 28, 2024

Name and address of factory (ies).....: BAOERMA ELECTRICAL GROUP CO.,LTD

No.789 Xintang Road Fuhai Town Cixi City Ningbo

Zhejiang





Page 5 of 105

Report No. 182414C400016101

0,4	ok bus	ootek Anbotek	Aupo.	IEC 60335-2-7	Aupole	hotek.	Anborek	Anbo
n ^b	Clause	Requirement + Test	Anbo	k abotek	Result - R	emark	Anbor	Verdict

5	GENERAL CONDITIONS FOR THE TESTS		
Anbote	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.	A.C. Anbotek Anbotek	Anbotek
5.2	The relevant tests of 21.101, 21.102 and 22.104 shall be carried out on the same appliance used for the test of clause 18(IEC 60335-2-7)	Opotek Aupotek Aupotek	Pinbo An
5.3	Test of 15.101 carried out before test of 15.3(IEC 60335-2-7)	Anbotek Anbotek Ar	bote ^k P
Aupotek	Relevant tests of 21.101 and 21.102 carried out before test of clause 18. test of 22.104 carried out after test of clause 18. (IEC 60335-2-7)	Anbotek Anbotek	Anbotek Anbotek
5.7 Ar	Doubt is considered to exist if the temperature of the water is within 6 K of the boiling point and the difference between the temperature rise of the relevant part and the limit specified does not exceed 25 K minus the room temperature. (IEC 60335-2-7)	Anbotek Anbotek Anbotek Anbot	ek N Ant
6	CLASSIFICATION	1 22	
6.1	Protection against electric shock: Class 0, 0I, I, II, III:	Class I Anborek	Anbote Anbote
potek An	Appliances shall be of class I, class II or class III. (IEC 60335-2-7)	potek Anbotek Anbot	P Aug
6.2	Protection against harmful ingress of water	An Anbotel An	P
Aur	Appliances at least IPX4(IEC 60335-2-7)	IPX4	Ambe Pek
7	MARKING AND INSTRUCTIONS		
7.1 And	Rated voltage or voltage range (V)	See page 3	P
Sk Vul	Symbol for nature of supply, or	atek Anbo	PAnb
ootek	Rated frequency (Hz)	See page 3	otek P p
nbotek	Rated power input (W), or	See page 3	hotelP
abotek	Rated current (A)	abotek Anbote	N×
Aupote	Manufacturer's or responsible vendor's name, trademark or identification mark	See page 3	Anborek Anborek
K Anb	Model or type reference	See page 3	PAnbo
otek p	Symbol IEC 60417-5172, for class II appliances	obotek Anbote An	ek N A
abotek	IP number, other than IPX0:	IPX4	-otekP
Anbotek	Maximum water level for appliances without automatic water level control (IEC 60335-2-7)	Anbotek Anbotek A	Aupoin
Anbote	Symbol IEC 60417-5180, for class III appliances, unless	tek Anborek Anborek	ArNotek
7/2	the appliance is operated by batteries only, or	ok hotek Anbore	N







Page 6 of 105

Report No. 182414C400016101

*ok	hotek Anbo, A. Dotek	IEC 60335-2-7	stek spotek Anti	Dr. Br.
Clause	Requirement + Test	abotek	Result - Remark	Verdict
upote.	And Anbotek Anbo	ek botek	Anbore Ans Ans	
Aupoter	for appliances powered by recharge recharged in the appliance	geable batteries	Anbotek Anbotek	AnboN ^k
Anbo	Symbol IEC 60417-5018, for class appliances incorporating a function		stek Aupotek Vupote	otek Anb
tek Ar hotek Anbotek	Symbol IEC 60417-5036, for the e electrically-operated water valves sets for connection of an appliance mains, if the working voltage exceevoltage	in external hose- e to the water	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anboten	Appliances not intended for conne water supply and not provided with shall be marked with the substance "Do not connect to the hot water so	n heating elements e of the following:	tek Anbotek Anbotek	An Brek
er An	2-7)	upply (IEC 60335-	boter And botek Ar	potek Ar
7.2	Warning for stationary appliances	for multiple supply	Anbore An morek	Aupoten N
Anborek	Warning placed in vicinity of termin	nal cover	Anbotek Anbotek	inbo N
7.3 Anbore	Range of rated values marked with upper limits separated by a hypher		ek Aupotek Aupole	ek P
otek Aut	Different rated values marked with separated by an oblique stroke	the values	potek Anbotek An	botek N Ari
7.4 Andrek	Appliances adjustable for different rated frequencies, the voltage or the setting is clearly discernible		Anbotek Anbotek	Pupotek N
Anbote Anb	Requirement met if frequent chang required and the rated voltage or r which the appliance is to be adjust from a wiring diagram	ated frequency to	otek Anbotek Anbotek	Anbor Anbor
7.5	Appliances with more than one rat or more rated voltage ranges, mar input or rated current for each rate range, unless	ked with rated	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anborek	the power input or current are relar arithmetic mean value of the rated		k Aupotek Aupoter	Anbore Anbore
tek Anbo	Relation between marking for upper of rated power input or rated curre clear		otek Anborek Anborek Anborek	otek Panb
7.6	Correct symbols used	Y Ann	Anbotek Anbo.	potekP
Anbotek	Symbol for nature of supply placed voltage	d next to rated	Anbotek Anbotek	Aupo Br
Anbo	Symbol for class II appliances place confused with other marking	ced unlikely to be	rek Anbotek Anbote	AN N







Page 7 of 105

Report No. 182414C400016101

e. Aus	IEC 60335-2-7	ole Aupotek Aupotek	Anbo
Clause	Requirement + Test	Result - Remark	Verdict
Aupote.	And atek Anbotek Anbot Anbotek	Anbores And Andrew	botek
Anbotek	Units of physical quantities and their symbols according to international standardized system	Anbotek Anbotek	Anbo P k
7.7 Anbor	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	stek Anbotek Anbotek	Anbore
ob. W.	correct mode of connection is obvious	hoo tek abotek Anbo	N Arra
7.8	Except for type Z attachment, terminals for connection as follows:	n to the supply mains indicated	poter I
Anbotek	- marking of terminals exclusively for the neutral conductor (letter N)	Anbotek Anbotek	N _{rek}
tek Vupo	- marking of protective earthing terminals (symbol IEC 60417-5019)	ek Anbotek Anbotek	Pribate
Albotek I	- marking of functional earthing terminals (symbol IEC 60417-5018)	Anbotek Anbotek Anbot	otek N Pro
Anboiek	- marking not placed on removable parts	Anbotek Anbo	nbot P
7.9	Marking or placing of switches which may cause a hazard	Anbotek Anbotek	Anborek
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	botek Anbotek Anbotek	k Aupo
nbotek A	This applies also to switches which are part of a control	Anbotek Anbotek Anb	otek N A
Aupotek K.	If figures are used, the off position indicated by the figure 0	Anbotek Anbotek	Aupolek Nek
Yek Vupo	The figure 0 indicates only OFF position, unless no confusion with the OFF position	otek Vupotek Vupotek	Noote
hbotek Ar	If the off position is only indicated by letters, the word "off" is used.(IEC 60335-2-7)	Anbotek Anbotek Anbot	rek PAN
7.11	Indication for direction of adjustment of controls	Anbotek Anbo sek	N ^{otel} N
7.12	Instructions for safe use provided	Anborek Anbo. P	P.K
Anbotek	Details concerning precautions during user maintenance	Anbotek Anbotek	Anborek Anborek
ler Vupo.	The instructions state that:	notek Anbo rek	-Aupor
Anbotek Anbotek	- 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	lek P Ant botek Anbotek
Anbort Anbort	- children being supervised not to play with the appliance	tek Anbotek Anbotek	Ar Poten







Page 8 of 105

Report No. 182414C400016101

You	IEC 60335-2-7	ock abotek Anbors	bi.
Clause	Requirement + Test	Result - Remark	Verdict
hpore.	And Anbotek Anbo tek abotek	Anbore And And	nbotek
Anbotek Anbotek	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	Anbotek Anbotek	Anbotek
sek Au	Instructions for class III appliances state that it must only be supplied at SELV, unless	Anbotek Anbotek Anbote	N Ar
hotek	it is a battery-operated appliance, the battery being charged outside the appliance	Anbotek Anbotek Ar	botek N
Anbotek	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated	Anbotek Anbotek	Anbotek
ek Antor	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	otek Anbotek Anbotek Anbotek	N Anbot
anbotek	Maximum mass of dry cloth in kilograms, specified(IEC 60335-2-7)	Anbotek Anbotek An	ootek
Anbotek Anbote	This appliance is intended to be used in household and similar applications such as:(IEC 60335-2-7) – staff kitchen areas in shops, offices and other working environments; – farm houses;	hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbore Anbore
Anbotek Anbotek	 by clients in hotels, motels and other residential type environments; bed and breakfast type environments; areas for communal use in blocks of flats or in launderettes. 	Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbotek Anbotek
k Vupo	If the manufacturer wants to limit the use of the appliance to less than the above, this shall be clearly stated in the instructions(IEC 60335-2-7)	botek Anbotek Anbotek	Anb
7.12.1	Sufficient details for installation supplied	Aupo, Pr. Spotek Pup	Р
Anbotek Anbotek	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	Anbotek Anbotek	Anbotek
k Anbo	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	potek Anbotek Anbotek	Anbo
upotek Ar	- carpet does not obstruct the openings for washing machines with ventilation openings in the base(IEC 60335-2-7)	Anbotek Anbotek Anbo	potek Sek b V
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbot







Page 9 of 105

Report No. 182414C400016101

bi.	IEC 60335-2-7	or Wir Posek Auposer	Anto
Clause	Requirement + Test	Result - Remark	Verdict
Anbore.	And otek Anbotek Anbot Anbotek	Anbore And Otek	botek
Anbotek	with the wiring rules	Aupotes, Vupo, **	~botek
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	tek Anbotek Anbotek	Notek Anbotek
7.12.4	Instructions for built-in appliances:	otek Anbotek Anbo	, N
otek.	- dimensions of space	hos stek unbotek Aubor	N
Aup.	- dimensions and position of supporting and fixing	Anbe	Ŋ
Anborek	- minimum distances between parts and surrounding structure	Anbotek Anbotek	Anbolo N
k Aupot	- minimum dimensions of ventilating openings and arrangement	rek Anbotek Anbotek	N Anbote
Potek Vul	- connection to supply mains and interconnection of separate components	botek Anbotek Anbot	otek N Aup
Anbotek	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	Anbotek Anbotek Antotek	Anbotek hotek
bote	a switch complying with 24.3	ek abotek Anbote	An N ofel
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	potek Anbotek Anbote	N Anbr
obořek p	Replacement cord instructions, type Y attachment	abotek Anbote An	otek P
spotek	Replacement cord instructions, type Z attachment	abotek Anbotes And	N
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	ak Anbotek Anbotek	Anbotek Anbotek
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	botek Anbotek Anbotel	NAnbo
7.12.8	Instructions for appliances connected to the water ma	ins: Anbotek Anb	*ek
Ann	- max. inlet water pressure (Pa)	And otek Anbotek A	ibo. P
Anbo	- min. inlet water pressure, if necessary (Pa):	And otek Anbotek	Aup B
Anbo Anbo	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	otek Anbotek Anbotek	ANDO
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	Anbotek Anbotek Anbo	botek P An
Auporek	These instructions may be supplied with the appliance separately from any functional use booklet	Anbotek Anbotek	Aupotek Potek
Anbot	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	tek Anbotek Anbotek	Anborr Anborr
-40.	No. 26	- 10. VUA	26







Page 10 of 105

Report No. 182414C400016101

No.	IEC 60335-2-7	ok botek Anbo	h.,
Clause	Requirement + Test	Result - Remark	Verdict
upote.	And Anbotek Anbo. Anbo. Anborek	Anbore K Ans	hotek
Anbotek Anbotek	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	Anbotek Anbotek	Anbotel Anbotel
tek Anbo	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD	Protek Vuposek Vuposek	P _{Anb}
7.13	Instructions and other texts in an official language	English	botek P
7.14	Markings clearly legible and durable:	nbotek Anbote Ar	P
Anbotek	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	Anbotek Anbotek	Anborek Anborek
ek Aupo,	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm	ek Anbotek Anbotek	Nopo
potek	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless	Aupotek Aupotek Aupo	otek N
All	contrasting colours are used	All hotek Anbotek	Aups Nek
Anbore	Markings checked by inspection, measurement and rubbing test as specified	ak Anbotek Anbotek	Anbo
7.15 Anto	Markings on a main part	botek Anbote, And	P
otek l	Marking clearly discernible from the outside, if necessary after removal of a cover	Anbotek Anbotek Anb	prek P
inbote k	For portable appliances, cover can be removed or opened without a tool	Anbotek Anbotek	inbotek
Anbote	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	ek Aupotek Aupotek	Anbot Anbot
otek p	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	Anbotek Anbotek Anbotek Anb	otek PAN
Anbotek Anbotek	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	Ambotek Anbotek A	Anbotek Anbotek
iek Anbo	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	otek Anbotek Anbotek	Nant
hotek h	The caution relating to connection to the hot water supply shall be on the appliance at its point of attachment to the water supply (IEC 60335-2-7)	Anbotek Anbotek Anbo	potek N
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	Anbotek Anbotek	Anbore Anbore
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		







Page 11 of 105

Report No. 182414C400016101

-24-	IEC 60335-2-7	oc ok bořek Anboře	b.,
Clause	Requirement + Test	Result - Remark	Verdict
'upote.	And otek Anbotek Anbo. A. A. Abotek	Anbote. And And	
8.1	Adequate protection against accidental contact with live parts	Anbotes Anbotek	Aupo by
8.1.1	Requirement applies for all positions, detachable parts removed	otek Anbotek Anbotek	Anbo
tek bu	Lamps behind a detachable cover not removed, if conditions met	Whotek Aupotek Aupo	sek N
upotek	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	Anbotek Anbotek Ar	potek
Anbotek	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	K Anbotek Anbotek	Aupolek V
ek Aupon	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	otek Anborek Anborek	Rupo,
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	Anbotek Anbotek Anbotek Anbotek	ootek P A.
Anbore Anbore	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	Yek Aupotek Aupotek	Anbor
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements or supporting parts	Anbotek Anbotek Anbotek Anbot	otek Otek
Anbotek	For a single switching action obtained by a switching device, requirements as specified	Anbotek Anbotek	Anborek Anborek
k Aupo	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug	botek Anbotek Anbotek	k Anb
8.1.4	Accessible part not considered live if:	Anbotek Anbot Att	otek b
abotek	- safety extra-low d.c. voltage: not exceeding 42.4 V	upotek Anbore A	worke\N
Anbotek	- or separated from live parts by protective impedance	Anbotek Anbotek	AnboNk
K Anbor	If protective impedance: d.c. current not exceeding 2 mA, and	otek Anbotek Anbotek	N Oro
rek	a.c. peak value not exceeding 0.7 mA	otek subotek Aubote	N
nbotek	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF	Anbotek Anbotek Anbo	N
Aupotek Votek	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	Anbotek Anbotek	AnboN ^k
Anbor	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	otek Anbotek Anbotek	Anbo
8.1.5	Live parts protected at least by basic insulation before	e installation or assembly	V







Page 12 of 105

Report No. 182414C400016101

404	IEC 60335-2-7	ok botek Anbo	K.
Clause	Requirement + Test	Result - Remark	Verdict
upote.	And otek Anbotek Anbo ak Anbotek	Anbore And Orek	
Anborek	- built-in appliances	Anboten Anb	nboN ^k
Anborek	- fixed appliances	Anbotek Anbo	Potel
nbot	- appliances delivered in separate units	tek upotek Aupor	N
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	nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	potek
	Only possible to touch parts separated from live parts by double or reinforced insulation	Anborek Anborek	Anboth hotel
9	STARTING OF MOTOR-OPERATED APPLIANCES		
ek Ant	Requirements and tests are specified in part 2 when necessary	botek Anbotek Anbote	N ⁿ
10	POWER INPUT AND CURRENT		
10.1ek	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table1	(see appended table)	Anbotek abotek
hupotek Potek V	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	ek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbotek	N Anbo Ar Otek
	Otherwise the power input is the arithmetic mean value	k Anbotek Anbotek	Anb Nek
k Anb	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	otek Anbotek Anbotek	N An
upotek b	the rated power input is related to the arithmetic mean value	Aupotek Aupotek Aup	botek botek
	The selected representative period is the period, such as filling with water, washing, rinsing, water extraction, spinning or braking, during which the power input is the highest (IEC 60335-2-7)	k Anbotek Anbotek Anbotek	Anboh Anboh
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2:	(see appended table)	N _{TU}
Anbotek Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ek an	Otherwise the current is the arithmetic mean value	rotek Anboter Anbo	N N







Page 13 of 105

Report No. 182414C400016101

101	IEC 60335-2-7	tek hotek Anbor	b.
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	ek Anbotek Anbotek	Anbotek Anbotek
rek Vupor	the rated current is related to the arithmetic mean value of the range	potek Anbotek Anbotek	Napo
Anbotek Anbotek	The selected representative period is the period, such as filling with water, washing, rinsing, water extraction, spinning or braking, during which the current is the highest (IEC 60335-2-7)	Anbotek Anbotek Anbotek Anbotek	N Ar potek
11	HEATING		
11.1 Anbore	No excessive temperatures in normal use	otek Aupoten Aupo	Phot
11.2 And	The appliance is held, placed or fixed in position as described:	Anbotek Anbotek Anbote	k P An
11.3	Temperature rises, other than of windings, determined by thermocouples	Anbotek Anbotek Anb	otek P
Aupotek	Temperature rises of windings determined by resistance method, unless	k Anbotek Anbotek	Anbotek Anbotek
Anbore!	the windings are non-uniform or it is difficult to make the necessary connections	olek Anbotek Anbotek	Phote
Potek V	Where the external accessible surfaces are suitably flat and access permits, then the test probe of Figure 101 may be used to measure the temperature rises of external accessible surfaces specified in Table 101.(IEC 60335-2-7)		P And
11.4 Anbotek	Heating appliances operated under normal operation at 1.15 times rated power input (W):	trek Anbotek Anbotek	Anbotel
11.5 Anbo	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V):	110V×1.06=116.6V	P _{Anb}
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	Anbotek Anbotek Ar	ibote ^N
11.7 _{Anbore}	Operation duration corresponding to the most unfavourable conditions of normal use	tek Anbotek Anbotek	Photek
Anbo	Appliances with a programmer (IEC 60335-2-7)	toter And Stek Andorek	Nanbe
potek An	Others appliances sequences of test as specified (IEC 60335-2-7)	Ambotek Ambotek Ambot	ek N A
Anbotek Anbotek	For appliances with a timer, the washing period, the water extraction period and the drying are equal to the maximum period allowed by the timer (IEC 60335-2-7)	Anbotek Anbotek Anbotek	Anbotek Anbotek
- Aupor	For appliance without a timer (IEC 60335-2-7)	potek Anbotek Anbotek	N _{upo,}







Page 14 of 105

Report No. 182414C400016101

-2/-	IEC 60335-2-7	by botek Aubore	bu.
Clause	Requirement + Test	Result - Remark	Verdict
upote.	And Stek Anbotek Anbo. A. Abotek	Anbore. And And	hotek
Aupotek	The rest period, including any braking time, has a duration of 4 min.(IEC 60335-2-7)	Anbotek Anbotek	Anbo Pk
riek Anbo	After the specified sequence of operation, discharge pumps that are driven by a separate motor and switched on and off manually, are subjected to 3 operating periods separated by rest periods of 4 min. (IEC 60335-2-7)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	sk Vupo
11.8	Temperature rises monitored continuously and not exceeding the values in table 3:	(see appended table)	Anbotek Anbotek
Vupotek	If the temperature rise of a motor winding exceeds the value of table 3, or	k Anbotek Anbotek	An Wick
ek Vu	if there is doubt with regard to classification of insulation,	potek Ambotek Anbotek	ek Nupe
ootek	tests of Annex C are carried out	abotek Anbote And	otek N
hotek	Sealing compound does not flow out	Anbotek Anbotek An	P
Vup.	Protective devices do not operate, except	And otek Anbotek	Anboi P. K
Anbor	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	Anbotek Anbotek	Anhor
otek Ani	During the test, the temperature rises are monitored continuously for one cycle and shall not exceed the values shown in Table 101.(IEC 60335-2-7)	nbotek Anbotek Anbote	k P An
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	
13.1	Leakage current not excessive and electric strength adequate	tek anbotek Anbotek	Anb P
k Aup	Heating appliances operated at 1.15 times the rated power input (W)	totek Anbotek Anbote	N
otek Inbotek	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V):	110V×1.06=116.6V	upotek
Anbore	Protective impedance and radio interference filters disconnected before carrying out the tests	Anborek Anborek	Anb Note
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	botek Anbotek Anbotek	Anb
hotek A	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter	Anbotek Anbotek Anbo	lek P p
Aupolek	Leakage current measurements:	(see appended table)	nbo'P ^k
Anbotek Anbo	For stationary class I appliances, the leakage current not exceeding 3,5 mA, or 1 mA/kW of rated power input with a limit of 5 mA, whichever is greater (IEC 60335-2-7)	ortek Anbotek Anbotek	Potel Anborel
P.	The Man I see	-001 AII.	187







Page 15 of 105

Report No. 182414C400016101

70×	IEC 60335-2-7	atek aboter And	
Clause	Requirement + Test	Result - Remark	Verdict
13.3	The appliance is disconnected from the supply	Anboten Anb	anboP ^k
Anbotek	Electric strength tests according to table 4:	(see appended table)	Potel
anbore	No breakdown during the tests	tek unpotek Aupor	P
14	TRANSIENT OVERVOLTAGES	Hr. 99.	
potek	Appliances withstand the transient over-voltages to which they may be subjected	Anbotek Anbotek Anbo	ootek N A
Anbotek Anbotek	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6:	(see appended table)	AnborN'
Anbore	No flashover during the test, unless	lek Aupoter Aup	N
sk Aup	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited	potek Anbotek Anbot	N N
15	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	IPX4	unbot P
Anbotek Anbotek	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	ek Anbotek Anbotek	Anboi Anboi
otek A	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29	Anbotek Anbotek Anbote	otek P An
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:	IPX4	nbotek
Anbotek Anbotek	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	otek Anbotek Anbotek	N _D ot
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	Anbotek Anbotek Anb	Ket N
upotek	Built-in appliances installed according to the instructions	Anbotek Anbotek A	nbotek
Anbotek	Appliances placed or used on the floor or table placed on a horizontal unperforated support	k Anbotek Anbotek	Anbore Anbore
ek Anbo	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	oter Anbotek Anbotek Anbotek	N _{VU} p
Aupotek Aupotek	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	Anbotek Anbotek Ar	ootek Anbotek
Anbore	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	tek Aupotek Vupotek	Anbre Anbre
10 10	for appliances normally used on the floor or table,	otek unbor Ar	e ^K P o

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Page 16 of 105

Report No. 182414C400016101

- 4	boye Aug Stek	EC 60335-2-7	ok boter	Aupo
Clause	Requirement + Test	nbotek	Result - Remark	Verdict
Anbotek	the movement is limited to two time of 5 min, the support being placed pivot axis of the oscillating tube		Anbotek Anbote	otek Anbotek
ak Anbor	Wall-mounted appliances, take into distance to the floor stated in the in		tek Anbotes And	Anbotek Nanbot
Anbotek Anbotek	Appliances normally fixed to a ceiling underneath a horizontal unperforate pivot axis of the oscillating tube loc of the underside of the support, and	ed support, the ated at the level	Anbotek Anbotek	Anbotek N An
k Anbotek	for IPX4 appliances, the movement limited to two times 90° from the ve of 5 min		tek Vupotek Vupo	hotek Anbote
okek Ant	Appliances with type X attachment flexible cord as described	fitted with a	botek Anbotek A	Anborek N Ant
"upotek	Detachable parts subjected to the r with the main part	elevant treatment	Anborek Anborek	Ankore, N
Anbotek	However, if a part has to be remove maintenance and a tool is needed, removed		ek Anbotek Anbo	rek Anborek
15.2	Spillage of liquid does not affect the insulation even if an inlet valve fails 60335-2-7)		botek Anbotek Ar	Anbotek P Anb
Anbotek	Appliances with type X attachment flexible cord as described (IEC 603		Anbotek Anboten	AnboteN
Anbotek	Appliances incorporating an applian with or without an connector, which unfavourable (IEC 60335-2-7)		anbotek Anbot	ek AnbNek Anbotek
Potek Vi	Appliances intended to be filled in Overfilling test with additional amounter, over a period of 1 min (I) (IE)	unt of	Anbotek Anbotek	Anbotek Nanbe
Anborek Anborek	Other appliances are operated untillevel, detergent added, then inlet value (IEC 60335-2-7)		Anbotek Anbotek	Anbotek Anbotek
anbo	For appliances loaded from the from opened manually without damaging system	g door interlock	otek Anbotek Ant	Anbotek Anbo
ope An	C 60335-2-7)	A(IE	upotek Ant	Aupolek Au
Anbotek Anbotek	For all appliances: 0,5l of water corapproximately 1% NaCl and 0,6% of poured over the top of the appliance being placed in the on position. The operated through their working range being repeated after a period of 5m	of rinsing agent, is e, the controls e controls are ge, this operating	Anbotek Anbotek Anbotek Anbote Anbotek Anbote	Arbotek Anbotek Anbotek







Page 17 of 105

Report No. 182414C400016101

You	IEC 60335-2-7	ok botek Anbo.	h.
Clause	Requirement + Test	Result - Remark	Verdict
Anboten	C 60335-2-7)	Anbotek Anbo	- potek
	The appliance withstands the electric strength test of 16.3 (IEC 60335-2-7)	Anbotek Anbotek	Notek Anbotek
Hek Anbe	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29 (IEC 60335-2-7)	upotek Aupotek Aupotek	Sk Vupo
15.3	Appliances proof against humid conditions	Anboren And	oo ^{telk} P
Anbotek	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	Anbotek Anbotek	Aupo P
Anbo	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	tek Aupotek Aupotek	A N
ek Ar	Humidity test for 48 h in a humidity cabinet	RH: 95%, temperature: 25℃	K P ant
botek	Reassembly of those parts that may have been removed	Anbotek Anbotek Anbo	otek N
Anbore	The appliance withstands the tests of clause 16	Anbore And hotek	inpotek
15.101	Foaming does not affect electrical insulation – Electric strength test according subclause 16.3(IEC 60335-2-7)	ek Aupotek Aupotek	Ant Prek
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		
16.1	Leakage current not excessive and electric strength adequate	Anbotek Anbotek Anb	otek P
Anbotek Anbotek	Protective impedance disconnected from live parts before carrying out the tests	Anbotek Anbotek	nbotek
Anbore	Tests carried out at room temperature and not connected to the supply	ek Anbotek Anbotek	Photel
16.2	Single-phase appliances: test voltage 1.06 times Prated voltage (V)	110V×1.06=116.6V	PAnb
inpotek K	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)	Anbotek Anbotek Anb	lpote/N
Anboren	Leakage current measurements:	(see appended table)	anb Pek
Anbore	Limit values doubled if:	Anborek Anbo	Notek
Anb	- all controls have an off position in all poles, or	otek Anbotek Anbo	N
otek p	- the appliance has no control other than a thermal cut-out, or	hbotek Anbotek Anbot	ok N
nbotek	- all thermostats, temperature limiters and energy regulators do not have an off position, or	Anbotek Anbotek Ar	oo ^{tek} N
Pur	- the appliance has radio interference filters	Anbotek Anbotek	Anbou N tek
Anbo	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	(see appended table)	Ambot
16.3	Electric strength tests according to table 7:	(see appended table)	× P







Page 18 of 105

Report No. 182414C400016101

Yes	IEC 60335-2-7	ok spotek Anbore	DI.
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek Anbotek	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	Anbotek Anbotek
Anbo	No breakdown during the tests	otek Anbois Anti-	Panbo
17	OVERLOAD PROTECTION OF TRANSFORMERS A	AND ASSOCIATED CIRCUITS	
nbotek	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use:	(see appended table)	potek N
Anbotek	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)	ek Anbotek Anbotek	Anborek Anborek
ek n	Basic insulation is not short-circuited	stek upotek Anbore	N
botek w.	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	Aupotek Aupotek Aupotek	otek N
Anbotek	Temperature of the winding not exceeding the value specified in table 8	Anbotek Anbotek	Aupotek Aupotek
ek Aupon	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	tek Anbore Anborek	Noot
18	ENDURANCE		
18.101	Appliances shall be constructed so that the lid or door interlock withstands the stresses to which it may be exposed in normal use.(IEC 60335-2-7)	Anbotek Anbotek Anb	iupotek
Anbore	The lid or door is subjected to 10 000 cycles of opening and closing	ok Anbotek Anbotek	Anber
k Aup	For appliances having a drying function, the number of cycles is 13 000	potek Anbotek Anbotel	N
potek p	After the test, compliance with 20.103 to 20.105 shall not be impaired	Anbotek Anbotek Anbr	tek P
18.102	The braking mechanism of appliances having a lid that can be opened during the water extraction period shall withstand the stresses to which it may be exposed in normal use.(IEC 60335-2-7)	Anbotek Anbotek A	Anborel
k Anbe	Appliance supplied at 1.06 rated voltage	otek Anbore And	Panb
otek b	Test carried out 1000 times, the textile material resaturated with water at least every 250 times	anbotek Anbotek Anbo	ek P
Aupotek	After the test, the appliance shall be fit for further use and compliance with this standard shall not be impaired.	Anbotek Anbotek Ar	Aupotek Valoutek
19	ABNORMAL OPERATION	AP 195	
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	oter And tek upotek	Prupe







Page 19 of 105

Report No. 182414C400016101

DI.	IEC 60335-2-7	Jose An Potek Aupoter	Anbo
Clause	Requirement + Test	Result - Remark	Verdict
Anboten	Electronic circuits so designed and applied that a fault will not render the appliance unsafe:	(see appended table)	Р
ar Anbo	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	rek Anbotek Anbotek	Anbor
otek Ar	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	Anbotek Anbotek Anbo	ek N Anl
upotek	if applicable, to the test of 19.5	upotek Anbor A	N-
Anbotek	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	Anbotek Anbotek	N _{tek}
olek Anb	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	potek Anbotek Anbotek	Pupo.
arbotek ek	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	Anbotek Anbotek Anbo	otek N
Anbotek Anbotek	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	Anbotek Anbotek	Anbotek
Yupo,	Appliances incorporating voltage selector switches subjected to the test of 19.15	otek Anbotek Anbotek	ir mose
nbotek	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	Anbotek Anbotek Anbot	otek N A
Anborek	until steady conditions are established	Anbotek Anbo	abore P
Anbotek	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	ek Anbotek Anbotek	Anbotek Anbotek
hotek Pup	For appliances incorporating a programmer or timer, the tests of 19.2 and 19.3 are replaced by the tests of 19.101(IEC 60335-2-7)	otek Anbotek Anbotek	P Anbo
Anbotek Abotek	Test of 19.7 is not carried out on motor driving moving parts of oscillating agitator (IEC 60335-2-7)	Anbotek Anbotek A	nbote ^K N
Anbotel Anbotel	Appliances not intended for connection to the hot water supply and not provided with heating elements are also subjected to the test of 19.102.(IEC 60335-2-7)	otek Anbotek Anbotek	Anborek Anborek
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)	Anbotek Anbotek Anbo	ootek N An
Anbotek Anbotek	Restricted heat dissipation is obtained without water, with just sufficient water to cover the heating element(IEC 60335-2-7)	Anbotek Anbotek	Anbotek Anbotek
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W):	tek Anborek Anborek	N _{upon}
-		-11-	100







Page 20 of 105

Report No. 182414C400016101

10.	IEC 60335-2-7	ok botek Anbo	K.
Clause	Requirement + Test	Result - Remark	Verdict
19.4 Anborek	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	Aupotek Aupotek	Anbotek Anbotek
19.5 Anbor	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	otek Anborek Anborek	Sk Vupo
Anbotek	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	Anbotek Anbotek Ar	Anbotek Anbotek
ek Anbote	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	Jortek Anbotek Anbotek	An N Anbot
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	Anbotek Anbotek An	otek N
Anbotek Anbotek Anbotek	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)	anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anboth Anboth
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	Anbotek Anbotek Ant	otek P
Dur Otek	locking moving parts of other appliances	An. Otek Aupotek	N _K
Aupr	Locked rotor, capacitors open-circuited one at a time	Anbo stek unbotek	Anbor
K Anbo	Test repeated with capacitors short-circuited one at a time, unless	otek Anbotek Anbotek	N _{oo}
otek A	the capacitor is of class S2 or S3 of IEC 60252-1	sotek Anbotek Anbo	N N
Inpotek	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed:	Anbotek Anbotek Anb	nbotek N
Anbotek Anbotek	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	Anbotek Anbotek	Anborel
rotek An	Other appliances supplied with rated voltage for a period as specified:	110V Anbotek Anbo	ek P
Anborek	Winding temperatures not exceeding values specified in table 8	(see appended table)	Anbotek
Aupotek	Appliances without a programmer or timer are operated for 5 min(IEC 60335-2-7)	Anbotek Anbotek	Motel
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	Motek Anbotek Anbotek	N _{uppe}









Page 21 of 105

Report No. 182414C400016101

. Nos.	IEC 60335-2-7	And Anbotek Anbo	L-//-
Clause	Requirement + Test	Result - Remark	Verdict
upole.	And Anbotek Anbo tek abotek	Anbore. And	anbotek
19.9°	Running overload test on appliances incorporatin motors intended to be remotely or automatically controlled or liable to be operated continuously	nbotek Anbotek Anbotek	Anbotel Anbotel
hotek Anhor	The running overload test is carried out on appliances that have overload protective devices incorporating electronic circuits to protect the windings of the drum motor. However, the test is carried out if the protective device senses the winding temperature directly.(IEC 60335-2-7)	Anbores Anb	Nabotek nbotek
Anborek	Motor-operated and combined appliances for whi 30.2.3 is applicable and that use overload protect devices relying on electronic circuits to protect the motor windings, are also subjected to the test	tive Andrew	Anbotek Anbotek
notek Ant	Winding temperatures not exceeding values as specified	(see appended table)	tek N M
19.10	Series motor operated at 1.3 times rated voltage 1 min (V)		AnboreN
Anbotes	During the test, parts not being ejected from the appliance	potek Anbotek Anbotek	Aut Neek
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.1 for all circuits or parts of circuits, unless	Anborek Anborek Anborek	ek Pu
,eK	they comply with the conditions specified in 19.11	1.1 And tek shotek An	N
Aupotek Valouek	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	on k nboten And	Anbotek Anbotek
Anbo	restarting does not result in a hazard	Anboth Anbotek	₽P _{po}
otek Anbe	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subject to the tests of 19.11.4		octek Sotek
Anbotek Anbotek	If the safety of the appliance under any of the fau conditions depends on the operation of a miniatur fuse-link complying with IEC 60127, the test of 19 is carried out	re And Andek	Anbore Anbore
Anbo	During and after each test the following is checke	ed: nbotek Anbo	-Aup
rotek An	- the temperature of the windings do not exceed to values specified in table 8	the hotek Anbortek Anb	olek P
Anborek	- the appliance complies with the conditions specified in 19.13	Anbotek Anbotek	Aupotek Aupotek
Anbotel	- any current flowing through protective impedant not exceeding the limits specified in 8.1.4	ce tel Anborer Anborek	Mote
ek an	If a conductor of a printed board becomes open-considered to have withstood the particular test, p		N.nb







Page 22 of 105

Report No. 182414C400016101

W.	IEC 60335-2-7	or Ar botek Aupores	Anu
Clause	Requirement + Test	Result - Remark	Verdict
hpore	And Anborek Anbo esk aborek	Anbore Ans work	hotek
Anboten	conditions are met:	Anbotel And tek	abotek
Anborek	- the base material of the printed circuit board withstands the test of Annex E	Anbotek Anbotek	Notek Anbotek
stek Anbo	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	nbotek Anbotek Anbotek	Ninbos ak Ani
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	Anbotek
Anborr	- 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	rek Anbotek Anbotek	An N fer
botek Ant	- 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	Anbotek Anbotek Anbotek Anbot	otek N Anb
19.11.2	Fault conditions applied one at a time, the appliance of specified in clause 11, but supplied at rated voltage, of specified:		Anbotek Anbotek
ootek Anb	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29	potek Anbotek Anbote	Aup.
botek	b) open circuit at the terminals of any component	Antotek Anbotek Ant	N
Purplek	c) short circuit of capacitors, unless	hotek Anbotek	Pek
And	they comply with IEC 60384-14	k hotek Anbotek	Anbo N
k Aup.	d) short circuit of any two terminals of an electronic component, other than integrated circuits	otek Anbotek Anbotek	N
otek V	This fault condition is not applied between the two circuits of an optocoupler	Anbotek Anbotek Anb	Jek N
Yupo,	e) failure of triacs in the diode mode	Aupor Ar. Posek	nbote N
Anbore	f) failure of microprocessors and integrated circuits	Anbore K hotek	AnbP
Anborer	g) failure of an electronic power switching device	k Anbores And	Notek
otek Anbo	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N Anbo
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	Anbotek Anbotek Ar	V V V V V V V V V V V V V V V V V V V
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	tek Anbotek Anbotek	MPort
rek an'	a device that can be placed in the stand-by mode,	motek Anbotek Anbo.	N N
100	Lok about All I stell	140° 100°	40







Page 23 of 105

Report No. 182414C400016101

W. W.	IEC 60335-2-7	or Ar botek Anboter	And
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And Anbotek Anbot Anbot Anbotek	Anbores And Jorek Ar	hotek
Anbotek Anbotek	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	Anbotek Anbotek	Anbotek Anbotek
otek Anbor	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	abotek Anbotek Anbotek	Nnboh ek Anh
Anbotek Anbotek	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.	Anbotek Anbotek An	Aupotek V
K Pur	Surge protective devices disconnected, unless	ek shotek Anboten	ANN N
Y All	They incorporate spark gaps	ak hotek Anbotek	Nuppe
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	Anbotek Anbotek Anbot	otek b Vup
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified	Anbotek Anbotek	Anbotek
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	botek Anbotek Anbotek	k Wupe
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	Anbotek Anbotek Anb	upotek P A
Anbotek	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	ek Anbotek Anbotek	Anb President
kek Aupo	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	ootek Anbotek Anbotek	PAnbo
botek Ar	Earthed heating elements in class I appliances disconnected	Anbotek Anbotek Anbo	rek N Ar
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	Wipotek Wipotek W	Anborek
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	otek Anbotek Anbotek	Anbot Anbot
Anbotek An	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	Anbotek Anbotek Anbo	ootek Dotek
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	Anbotek Anbotek	Anbo'Pk
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	potek Anbotek Anbotek	Arboh Anboh









Page 24 of 105

Report No. 182414C400016101

V.	IEC 60335-2-7	or Ar. Polsk Aupole.	And
Clause	Requirement + Test	Result - Remark	Verdict
Aupore.	And Anbotek Anbotek	Anbore. And Lotek An	botek
Anboren	the programmable component cease to operate	Anboter Anti-	subotek
anbotek	The appliance continues to operate normally, or	r aupolek Aupo	Notek
i nodna	requires a manual operation to restart	tek abotek Anbor	N N
19.12 An	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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Nins potek Anbotek
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	ek Anbotek Anbotek	Anbote Anbote
hotek Ant	Temperature rises not exceeding the values shown in table 9	(see appended table)	ek P Ant
, otek	Compliance with clause 8 not impaired	Ant Anbotek Ant	P
Anbotek	If the appliance can still be operated it complies with 20.2	Anbotek Anbotek	vupotek
Anbote Anb	Insulation, other than of class III appliances or class I contain live parts, withstands the electric strength test specified in table 4:		Anbote Anb
botek P	- basic insulation (V)	1000V	otek P
botek	- supplementary insulation (V)	Anbotek Anbotes Ant	N
VII.	- reinforced insulation (V):	3000V	Pek
ek Aupotek	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	otek Anbotek Anbotek	Anbores Anbores
Anbotek	The appliance does not undergo a dangerous malfunction, and	Anbotek Anbotek Anb	P
Anbotek	no failure of protective electronic circuits, if the appliance is still operable	Anbotek Anbotek	Anb P.K
anbo	Appliances tested with an electronic switch in the off pmode:	position, or in the stand-by	Anbo
otek Ar	- do not become operational, or	shotek Anbotes Anto	ek P
anbotek	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	Anbotek Anbotek Anbotek Ar	potekN botek
Anbotek	If the appliance contains lids or doors that are controll one of the interlocks may be released provided that:	led by one or more interlocks,	Anbotek Anbotek
dek Anbo	- the lid or door does not move automatically to an open position when the interlock is released, and	stek Anbotek Anbotek	N _n bot
			- 0.11







Page 25 of 105

Report No. 182414C400016101

*ek	IEC 60335-2-7	tek hotek Anbor	by.
Clause	Requirement + Test	Result - Remark	Verdic
Anbotek	- the appliance does not start after the cycle in which the interlock was released	Anbotek Anbotek	AnboNk
Anbot	The textile material shall not ignite and shall not show any charring or glowing(IEC 60335-2-7)	tek Ambotek Anbotek	AN Ant
otek An	During the tests of 19.101 and 19.102, the temperature of windings shall not exceed the values specified in table 8.(IEC 60335-2-7)	hbotek Anbotek Anbot	ootek
Anbotek	The appliance shall comply with 20.103 to 20.105 if it can still be operated.(IEC 60335-2-7)	Anbotek Anbotek	^{Vupo} , b
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	tek Anbotek Anbotek	An N
otek An	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	bore Anbotek Anbot	otek N
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	Anbotek Anbotek An	unbote ^N
Anbore	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	ek Anbotek Anbotek	Anb Anb
19.15 Mark	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	Potek Pupotek Vupotek Vupote	N p
19.101	Fault conditions applied, appliance supplied at rated value normal operation.	voltage and operated under (IEC 60335-2-7)	Р
Purples	-programmer stopping in any position	k hotek Anbotes	Р
Anbo	-disconnection and reconnection of one or more phases of the supply	orek Anborek Anborek	Р
ek A	-open-circuiting or short-circuiting of components	shotek Anboten Anb	Р
otek	-failure of magnetic valve	hotek Anborek Anbi	Р
Anbotek	-failure or blocking the mechanical parts of water-level switch, except if	Anbotek Anbotek A	N
Anboise Anbois	-the cross-sectional area of the tube supplying the air chamber is greater than 500mm² with a minimum dimension of 10mm, -the outlet of the chamber is at least 20mm above the highest water level, and	otek Anbotek Anbotek Anbotek Anbotek	N
poter otek	-the tube connecting the air chamber to the water- level switch is fixed so that there is no likelihood of bending or pinching	Anbotek Anbotek Ar	
-hotek	-puncture of the capillary tube of a thermostat	thotek Aupoter	N
Vo.	-the steam generator is operating without water.	ak hotek Anbotek	N
ik Vul	If operation without water in appliance is a more unfavourable condition for starting any programme,	otek Anbotek Anbotek	N







Page 26 of 105

Report No. 182414C400016101

K Dir.	IEC 60335-2-7	port Anbotek Anbotek	Anbe
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And Anbotek Anbo ak Abotek	Anbore. And And	botek
Anbotek Anbotek	tests with that programme are carried out with water valve closed. This valve is not closed after programme stated to operate (IEC 60335-2-7)	Anbotek Anbotek	
19.102	Appliances not intended for connection to the hot water supply and not provided with heating elements are operated under the conditions of cl. 11, except that they are supplied at rated voltage and filled with water at a temperature of 65 °C± 5°C(IEC 60335-2-7)	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	N
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability	k hotek Anbotek	Ann Re
olek Aup	The appliance is empty or filled as specified for normal operation, whichever is more unfavourable (IEC 60335-2-7)	nbotek Anbotek Anbotek	K Aup
, nbotek	Doors and lids are closed and any castors turned to the most unfavourable position(IEC 60335-2-7)	Anborek Anborek Ant	oter N P
Anbotek Anbotek	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	tek Anbotek Anbotek	Anborek Anborek
potek An	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	bore Anborek Anbore	N Anbe
Anbotek Anbotek	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	Anbotek Anbotek Anb	nboteN
20.2 Noorek	Moving parts adequately arranged or enclosed as to provide protection against personal injury	ek Anbotek Anbotek	Potek
tek Anbo	Protective enclosures, guards and similar parts are non-detachable, and	Botek Anbotek Anbotel	PAnbo
le ciek	have adequate mechanical strength	Anbotek Anbotek Anbr	P
Aupotek	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	Anbotek Anbotek A	nbotek Anbotek
Anbotek Anbot	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	optek Anbotek Anbotek	Notek Anbot
ootek Ant	Not possible to touch dangerous moving parts with the test probe described	Anbotek Anbotek Anbo	ek P An
20.101	Drum washing machines that are loaded from the top through an opening with a hinged lid shall incorporate an interlock that de-energizes the motor before door or lid opening exceeds 50mm(IEC 60335-2-7)	Anbotek Anbotek Anbotek Anbotek Anbotek	poter P Anbotek Anbotek
otek Anb	If a removable or sliding lid is provided, the motor shall be de-energized as soon as the lid is removed ek Compliance Laboratory Limited	hotek Anbotek Anbot	ek Pup

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Page 27 of 105

Report No. 182414C400016101

- 0/-	botek Anbor All	IEC 60335-2-7	ok spokek Aupon	Di.
Clause	Requirement + Test	s abotek	Result - Remark	Verdict
Anbore.	And Anbotek Anbo	ek abotek	Anbore. And Andrek	Anbotek
Anbotek	or displaced and not possible to s the lid is in the closed position(IE		Anbotes Anbotek	Aupotek
otek Anbot	Compliance checked by inspection and by the following test: test probapplied in order to try and release needed to comply with the require shall not release.(IEC 60335-2-7)	e B of IEC 61032 is any interlock that is	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	W Anbot
20.102	Appliances shall not be affected bload(IEC 60335-2-7)	oy an unbalanced	Anbotek Anbotek	nbotek
20.103	Drum washing machines that are front or from the top, the door or linterlocked so that the appliance operated when the door or lid is in position (IEC 60335-2-7)	id shall be can only be	lek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anborr
Anbotek Anbotek	Compliance checked by inspection and by the following test: test probapplied in order to try and release needed to comply with the require shall not release.(IEC 60335-2-7)	e B of IEC 61032 is any interlock that is	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
20.104	It shall not be possible to open the appliance while the speed exceed drum has a rotational kinetic energy 1 500J, or a maximum peripheral (IEC 60335-2-7)	s 60 r/min if the gy exceeding	potek Anbotek Anbotek Anbotek Anbotek Anbot	Nove hotek And
Aupoles	-20 m/s for drums that rotate abou	t the horizontal axis,	Anbote. And stek	nbote P
Aupotek	-40 m/s for drums that rotate abou	t the vertical axis,	Anborek Anbo	Pek
ek Anbore	If compliance relies on the operat circuit, the test is repeated under conditions applied separately: 60335-2-7):		otek Anbotek Anbotek	N _{Dotel} Anborel
Aupotek	- the fault conditions in a) to g) of one at a time to the electronic circ	cuit; And	Anbotek Anbotek An	ootek A
Anbotek	- the electromagnetic phenomena to 19.11.4.5 applied to the appliar		Anbotek Anbot	A. Spotek
Anbotek Anbo	If the electronic circuit is program shall contain measures to control conditions specified in Table R.1 accordance with the relevant requ R.(IEC 60335-2-7)	the fault/error and is evaluated in	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Potek Anbo
20.105	Appliances shall have an automat switching off the motor, or for redu speed to 60 r/min, when the lid or the drum has a rotational kinetic e 1 500J, and a peripheral speed no -20 m/s for drums that rotate about -40 m/s for drums that rotate about (IEC 60335-2-7)	cing the drum door is opened if nergy not exceeding of exceeding t the horizontal axis,	Anbotek	Anbotek Anbotek Anbotek Anbotek Anbotek







Page 28 of 105

Report No. 182414C400016101

- a/4	botek Anbore Anti-	C 60335-2-7	ok potek	Jupore All
Clause	Requirement + Test	abotek	Result - Remark	Verdict
Aupore	Aug Jek Vupojek Vupoj	k botek	Anbore. And Arek	Anbotek
Anbotek Anbotek	If compliance relies on the operation circuit, the test is repeated under the conditions applied separately: (IEC 60335-2-7):		Anbotek Anbotek Anbotek Anbote	k Anbotek
otek Vi	- the fault conditions in a) to g) of 19 one at a time to the electronic circuit	t; And	hotek Anbotek A	upotek Aupo
hotek	- the electromagnetic phenomena to to 19.11.4.5 applied to the appliance		Anbotek Anbotek	Anbotek
Anbotek Anbotek	If the electronic circuit is programma shall contain measures to control the conditions specified in Table R.1 an accordance with the relevant require R. (IEC 60335-2-7)	e fault/error d is evaluated in	Anbotek Anbotek Anbotek Anbotek	tek Anbotek Anbotek Anbotek
20.106	For appliances with a front opening opening dimension exceeding 200 r volume exceeding 60 dm3, it shall n start or recommence the washing cy separate means which controls the drum is operated manually, even aff been opened and closed again.(IEC	nm, and drum not be possible to ycle until a movement of the ter the door has	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek N Anhotek Anbotek Anbotek
sk Au	Compliance is checked by inspectio ignoring any non-metallic seal fitted opening, and by the test described		botek Anbotek An	Anborek Anh
Aupotek	If compliance relies on the operation circuit, the test is repeated under the conditions applied separately:		Anbotek Anbotek	Aupotek N
Anbore	- the fault conditions in a) to g) of 19 one at a time to the electronic circuit		ek Anbotek Anbot	anbote
ek Aup	- the electromagnetic phenomena to to 19.11.4.5 applied to the appliance		otek Anbotek Anh	obotek Anb
otek b	The washing cycle shall not start or	recommence.	Inbotek Anbote	hotek N p
20.107	For appliances with a front opening opening dimension exceeding 200 r volume exceeding 60 dm3, it shall be open from the inside the closed doo appliance is not energized or in a statistic with a force not exceeding 70 N. (IE	nm, and drum be possible to r, when the andby mode,	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbotek	k Anbotek Anbotek Anbotek
nbotek Inbotek	Compliance is checked by measure any non-metallic seal fitted in the do by applying a force of 70 N perpend plane of the closed door at a point for hinges accessible from the inside of	oor opening, and icular to the urthest from the	Anbotek Anbotek Anbotek Anbotek	Anborek Name
Anbotek	If the appliance is supplied with an a decorative door, the test is carried or closed		rek Anbotek Anbote	Anbotek Anbotek
21	MECHANICAL STRENGTH			







Page 29 of 105

Report No. 182414C400016101

	IEC 60335-2-7	
Clause	Requirement + Test	Result - Remark Verdict
Aupoter	And Stek Anbotek Anbo Ak Sotek	Anbore Ann Otek Anborek
21.1	Appliance has adequate mechanical strength and constructed as to withstand rough handling	is Anbotek Anbotek Anbotek
yek Vupo	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 impact energy of 0,5 J	abotek Anbo Anbo
upotek	The appliance shows no damage impairing compliance with this standard, and	Anbotek Anbotek Anbotek P
Anbotek Anbotek	compliance with 8.1, 15.1 and clause 29 not impaired	potek Anbotek Anbotek Anbotek
Anbot	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	Anbotek Anbotek Anbotek Napo
botek An	If necessary, repetition of groups of three blows or new sample	n a potek Anbotek Anbotek N An
21.2	Accessible parts of solid insulation having strength prevent penetration by sharp implements	h to Anborek Anborek Anbore
Aupote,	Test not applicable if the thickness of supplemental insulation is at least 1 mm and reinforced insulation at least 2 mm	
otek Ant	The insulation is tested as specified, and does withstand the electric strength test of 16.3	Anbotek Anbotek Anbotek N An
21.101	Lids and doors shall have adequate mechanical strength(IEC 60335-2-7)	Anbotek Anbotek Anbotek
Anbotek	Compliance is checked by 21.101.1 for lids, and 21.101.2 for doors	otek Anbotek Anbotek Anbetek
21.101.1	A rubber hemisphere –diameter 70 mm, hardness between 40 and 50 HIRD- is fixed to a cylinder – mass 20 kg- and dropped from a height of 100 mm onto the centre of the lid(IEC 60335-2-7)	Hotek Anbor An atel and
Anbotek Anbotek	Test carried out 3 times, after which the lid shall no be damaged to such an extent that moving parts become accessible.	ot Anbotek Anbotek Anbotek
21.101.2	A vertically downwards force of 150 N is applied I the most unfavourable position to the door while it is open at an angle of 90° ± 5°. The force is maintained for min.(IEC 60335-2-7)	pen
inbotek k	After the test, the appliance shall not be damaged deformed to such an extent that compliance with 20.103 to 20.105 is impaired(IEC 60335-2-7)	F Anbotek Anbotek Anbotek
21.102	Lids shall have adequate resistance to distortion(I 60335-2-7)	EC Anbotek Anbotek Anbotek
rek Anbo	A force of 50 N is applied to the open lid in the mounfavourable direction and position. Test carried of 3 times, after which the hinges shall not have	







Page 30 of 105

Report No. 182414C400016101

N. K.	IEC 60335-2-7	oo ak hotek Anbote	And
Clause	Requirement + Test	Result - Remark	Verdict
Aupoter.	And tek abotek Anbor K botek	Anbores Anbo	botek
Anbotek Anbotek	worked loose and the appliance shall not be damaged or deformed to such an extent that compliance with 20.103 to 20.105 is impaired(IEC 60335-2-7)	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
22	CONSTRUCTION		
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	Anbotek Anbotek Anbo	potek N An
22.2	Stationary appliance: means to ensure all-pole discorprovided:	nnection from the supply being	Anbotek
s aboi	- a supply cord fitted with a plug, or	iek upotek Aupot	N work
ek a	- a switch complying with 24.3, or	tek abotek Anbotes	N
hojek	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	Anbotek Anbotek Anbot	otek N Ant
And	- an appliance inlet	And stek anbotek	Yupo, N
Anbor Antor	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	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anhotel Anbotel
22.3	Appliance provided with pins: no undue strain on socket-outlets	Anbotek Anbotek Ant	orek N
abotek	Applied torque not exceeding 0.25 Nm	nbotek Anbote	Nek
ek Anbote	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	ek Anbotek Anbotek	Anbotel Anbotel
orek p	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless	Anbotek Anbotek Anb	otek N A
Anborek	rotating does not impair compliance with this standard	Vupotek Vupotek	Anborek
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	otek Anbotek Anbotek	A.Notek
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ootek Anbotek
Anbo	Voltage not exceeding 34 V (V):	4.0V	ATP OF
otek Anbo	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	potek Anbotek Anbotek	Nabot ek An
zhen Anho	tek Compliance Laboratory Limited	rek abor All	n vice view or time

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Page 31 of 105

Report No. 182414C400016101

- ak	IEC 60335-2-7	by hotek Auport	V.
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And Otek Anbotek Anbo Ak botek	Anbore. And Otek	hotek
Aupotek	The discharge test is then repeated three times, voltage not exceeding 34 V (V):	Anborek Anborek	AnboN ^k
22.6	Electrical insulation not affected by condensing water or leaking liquid	potek Anbotek Anbotek	Anbot Anbot
otek bi	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks	Anbotek Anbotek Anbo	ok N Ani
Anbotek Anbotek	Requirements relating to leakage from containers, hoses, coupling and similar parts of the appliance is not applicable to parts that withstand the ageing test specified in annex BB(IEC 60335-2-7)	Anbotek Anbotek Anbotek An	Anbotek
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	otek Pupotek Vupotek	P Anbote
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	Anbotek Anbotek Anbotek	otek N
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	otek Anbotek Anbotek	Anbore
K VIII	the substance has adequate insulating properties	nbote Air hotek Anbote	N And
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:	Anbotek Anbotek Ant	otek N A nbotek
Anbore	- a non-self-resetting thermal cut-out is required by the standard, and	tak Vupotek Vupotek	N orek
otek And	- a voltage maintained non-self-resetting thermal cut- out is used to meet it	hotek Anbotek Anbote	NAnbe
Aupotek	Non-self-resetting thermal motor protectors have a trip-free action, unless	Anbotek Anbotek Anb	Negotek
Anbotei	they are voltage maintained	Anborer And Orek	No No No No
y Aupote	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	botek Anbotek Anbotek	Notek Anbo
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	Wipotek Vipotek Vipotek Vipotek	lek P An
Anbotek	Obvious locked position of snap-in devices used for fixing such parts	Pupotek Vupotek	Aupo Nk
Anbo	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	potek Anbotek Anbotek	ArN ^o
400	No.	16r 10p	No.







Page 32 of 105

Report No. 182414C400016101

10 ¹	IEC 60335-2-7	tek abotek Anbo	-/-
Clause	Requirement + Test	Result - Remark	Verdict
hois	And Anbotek Anbo ak Abotek	Anbote. And Lotek An	potek
Anbotel	Tests as described	Anbotes Anb	nboP ^k
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	Anbotek Anbotek	Potek
itek Ant	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	obotek Anbotek Anbotek	S _K Au
upotek	A choking hazard does not apply to appliances for commercial use	Anbotek Anbotek An	oote N
Anboiek	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	Anbotek Anbotek	N _{tek}
lek Vup	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	ek Anbotek Anbotek	Ribot
potek p	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	Anbotek Anbotek Anbotek	Josek N
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	ek Aupotek Aupotek	Anbotek Anbotek
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	botek Anbotek Anbote	P Ant
Anbotek	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	Anbotek Anbotek Anb	nbotek nbotek
22.15	Storage hooks and the like for flexible cords smooth and well rounded	ek Anbotek Anbotek	Anbore
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	Anbotek Anbotek Anbotek	tek b
YUPD "EK	Cord reel tested with 6000 operations, as specified	Aupo rek upotek Vi	N N
Anbotek	Electric strength test of 16.3, voltage of 1000 V applied	Aupotek Aupotek	Pup N
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	otek Anbotek Anbotek	N
22.18	Current-carrying parts and other metal parts resistant to corrosion	hbotek Anbotek Anbo	ek P A
22.19	Driving belts not relied upon to provide the required level of insulation, unless	Anbotek Anbotek Ar	Nk
Anbores	constructed to prevent inappropriate replacement	Aupore Aug	Ar Notek
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	stek Aupotes Aupotek	Nabo







Page 33 of 105

Report No. 182414C400016101

*o/-	IEC 60335-2-7	tok obotek Anbor	br.
Clause	Requirement + Test	Result - Remark	Verdict
upoje	And Anbotek Anbo ek Anbotek	Anbore And And	potek
Anbotek	material used is non-corrosive, non-hygroscopic and non-combustible	Aupotek Aupotek	Anbo N k
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	otek Anbotek Anbotek	Anbo
rek An	impregnated	botek Anbote And	ek N
hotek	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	Anbotek Anbotek Anb	potek N
22.22	Appliances not containing asbestos	k abotek Anbote	Prek
22.23	Oils containing polychlorinated biphenyl (PCB) not used	otek Anbotek Anbotek	Anbot Anbot
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	Anbotek Anbotek Anbot	otek N An
Anbotek	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	Anbotek Anbotek	rupo, M
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	tek Anbotek Anbotek	Anhore Anbore
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	Anbotek Anbotek Anbotek	otek N Inbotek
22.27	Parts connected by protective impedance separated by double or reinforced insulation	ek Anbotek Anboten	Anbore
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	Anbotek Anbotek Anbotek Anbotel	tek 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	Anbotek Anbotek	Aupotek Vipor
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	obtek Anbotek Anbotek	Anbo
Anbotek	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	Anbotek Anbotek Anbo	N Anbotek
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	otek Anbotek Anbotek	Anbor







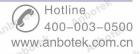


Page 34 of 105

Report No. 182414C400016101

40-	IEC 60335-2-7	in lok botek Anbo	- M
Clause	Requirement + Test	Result - Remark	Verdict
Anborek Anborek	Neither clearances nor creepage distances betweer live parts and accessible parts reduced below value for supplementary insulation if wires, screws etc. become loose		Anborek
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	Anbotek Anbotek Anbotek	nbotek Ar
Anborek Anborek	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	ek Anbotek Anbotek Anbotek Anbotek	Anbotek
nek And	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementar or reinforced insulation	Anbotek Anbotek Anbo	Hek N Ar
Anbotek	Ceramic and similar porous material in which heatin conductors are embedded is considered to be basic insulation, not reinforced insulation		unbote ^N
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	ootek Anbotek Anbotek	Anbor
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		ek N _{An} lootek
Anbotek	unearthed metal parts separated from live parts by basic insulation only	k Anbotek Anbotek	Aupotek Aupotek
Anbore	Electrodes not used for heating liquids	otek Anboten Anb	Noote
otek Anb	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	anto ak botek Anbor	otek Nanb
Anbotek	the reinforced insulation consists of at least 3 layers	Anbotek Anbo	N ^k
Anboie ^l	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	stek Anbotek Anbotek	Notel Anbotel
otek a	the reinforced insulation consists of at least 3 layers	botek Anbotek Anbo	e⊬ N
nbotek	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	Anbotek Anbotek Ant	Notek N
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	tel Anbotek Anboten	Anborek Anborek
Anbo	the shaft is not accessible when the part is removed	logick Aupore Aur Motel	Napo
22.35	For other than class III constructions, handles, lever	s hotek Anbotes Anb	×elk N









Page 35 of 105

Report No. 182414C400016101

49.5	oter Anbo F Otek IEC 6	0335-2-7	tok hotek Anbo.	h.
Clause	Requirement + Test	abotek	Result - Remark	Verdict
Anbore	And stek Anbotek Anbo.	hotek.	Anbore. And arek	nbotek
Anbotek	and knobs, held or actuated in normal ubecoming live in the event of a failure of insulation		Anbotek Anbotek	Anbotek
hotek Antoh	Such parts being of metal, and their sha are likely to become live in the event of basic insulation, are either adequately of insulation material or their accessible pa separated from their shafts or fixings by supplementary insulation	a failure of overed by arts are	Anbotek Anbote	N Anbo
Anbotek Anbotek Anbote	This requirement does not apply to hand and knobs on stationary appliances and appliances, other than those of electrical components, provided they are reliably an earthing terminal or earthing contact separated from live parts by earthed me	l cordless al connected to , or	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbot N Anbotek Anbot
Vupotek Poter t	Insulating material covering metal hand and knobs withstand the electric strengt for supplementary insulation	les, levers th test of 16.3	Anbotek Anbotek Ar	Aupotek
22.36	For appliances other than class III, ha continuously held in the hand in norm constructed that when gripped as in n the operators hand is not likely to touc parts, unless	al use so ormal use,	ek Anbotek Anbotek botek Anbotek Anbotek Anbotek Anbotek	Ant N's
vupotek	they are separated from live parts by do reinforced insulation	uble or	Anbotek Anbotek An	N N
22.37	Capacitors in Class II appliances not co accessible metal parts and their casings separated from accessible metal parts be supplementary insulation, unless	s, if of metal,	k Anbotek Anbotek	Anbore Anbore
P.U.D.	the capacitors comply with 22.42	botek Ant	ore. Aug otek vupote	NAUP
22.38	Capacitors not connected between the of thermal cut-out	contacts of a	Anbotek Anbotek Ant	stek N P
22.39	Lamp holders used only for the connect	ion of lamps	Anbotek Anbotek	NK
22.40	Motor-operated appliances and combine appliances intended to be moved while or having accessible moving parts, fitted switch to control the motor. The actuating the switch being easily visible and accessible moving accessible and accessible accessible and accessible accessi	in operation, I with a ng member of	Anbotek Anbotek Anbotek	Anborek Anborek
Anbotek Anbotek	If the appliance cannot operate continuous automatically or remotely without giving hazard, appliances for remote operation with a switch for stopping the operation actuating member of the switch being earned accessible	rise to a being fitted The	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek Anbotek
22.41	No components, other than lamps, cont mercury	aining	ntek Anbotek Anbotel	P.nbo

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Page 36 of 105

Report No. 182414C400016101

-04	IEC 60335-2-7	tok społek Anbo.	la.
Clause	Requirement + Test	Result - Remark	Verdict
'upote.	And Stek Anbotek Anbo. A. A. Sotek	Anbore. Ans	hotek
22.42	Protective impedance consisting of at least two separate components	Anbotek Anbotek	AnboN ^k
Anborr	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	otek Ambotek Ambotek	Anbo
isek Au	Resistors checked by the test of 14.1 a) in IEC 60065	abotek Anbotek Anbo	SK N PL
^{upo,ek}	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Anbotek Anbotek Ar	botek N
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	tek Anbotek Anbotek	Anborek Anborek
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	potek Anbotek Anbot	ek 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	Anbotek Anbotek An	otek P Anbotek
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	otek Anbotek Anbotek	Anbore Anbore
Anbotek Anbotek	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	Anbotek Anbotek Ant	otek N Inbotek
Anbotek Anbo	These requirements are not applicable to software used for functional purpose or compliance with clause 11	otek Anbotek Anbotek	N Anbore
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use	Anbotek Anbotek Anb	N P
Anbore, potek	No leakage from any part, including any inlet water hose	Anborek Anborek	nbotek N
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water	k Anbotek Anbotek	Anbotek Anbotek
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	hbotek Anbotek Anbotek	N A
inbotek	the appliance switches off automatically or can operate continuously without hazard	Anbotek Anbotek A	hotekN
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	Anbotek Anbotek	Anbotek
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	tek Anbotek Anbotek	N _{Anbo}









Page 37 of 105

Report No. 182414C400016101

- N	IEC 60335-2-7	ip ok potek Aupore	VIII
Clause	Requirement + Test	Result - Remark	Verdict
upote.	And Anbotek Anbo. Anbo. Anborek	Anbore And Lotek	nbotek
Anbotek	There is a visual indication showing that the appliance is adjusted for remote operation	Anbotek Anbotek	AnboN ^k
Aupo	These requirements not necessary on appliances the without giving rise to a hazard:	at can operate as follows,	Anb
ek An	- continuously, or	abotek Anbote Ans	N M
	- automatically, or	Projek William William	otek N
hotek	- remotely	An Anbotek Anbotek Ar	N
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	ek Vipotek Vipotek	Anborel
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	Anbotek Anbotek Anbotek Anbotek	N ⁿ
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	Anbotek Anbotek	Anbot N
Anbore	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	otek Anbotek Anbotek	An'N Anbo
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	Aupotek Vipotek Vipotek Vipotek	N Ar
Anbotek	The requirement concerning position does not preclude use of a push on push off switch	k Anbotek Anbotek	AupNek
And	An indication when the device has been operated is	given by:	N
stek And	tactile feedback from the actuator or from the appliance, or	ntotek Anbotek Anbote	NAM NAM
hotek	- reduction in heat output; or	Aupotek Aupotek Aup	N
no otek	- audible and visible feedback	Anbotek Anbotek	N ^k
22.56	Detachable power supply part provided with the part of class III construction	Anbotek Anbotek	Anbot N
22.57 Arbo	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T	hotek Aupotek Aupotel	N An
bojek	This requirement does not apply to glass, ceramics or similar materials	Anbotek Anbotek Anb	norekN
22. 101	Appliances shall be constructed so that when the water level is above the lower edge of the door opening, it shall not be possible to open the door by a simple action while the appliance is operating.(IEC 60335-2-7)		Anbore Anbore







Page 38 of 105

Report No. 182414C400016101

404	IEC 60335-2-7	ack botek Anbore	br.
Clause	Requirement + Test	Result - Remark	Verdict
'upo _{te}	And Arek Anbotek Anbo	Anbore. And And	
Anbotek	Requirement not applicable to appliance fitted with interlocked doors or doors that are opened by means of a key or by 2 separate actions, such as pushing and turning.	Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek Anbotek Anbotek	If compliance relies on the operation of an electronic circuit and the appliance is capable of providing a wash water temperature of 60 °C or higher or is marked as having a wash water temperature of 60 °C or higher, the test is repeated under the following conditions applied: separately: - fault conditions 19.11.2 - electromagnetic phenomena test 19.11.4.2 and .5 It shall not be possible to open the lid or door by a simple action	Anbotek	hbotek Anbotek Anbotek Anbotek
Anbotek Anbotek	If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R.	Anbotek Anbotek Anbotek Anbotek Anbotek	botek N Anbotek
22.102	Textile material cannot come in contact with heating element(IEC 60335-2-7)	ek Anbotek Anbotek	Note
22.103	Appliances shall be constructed so that, during normal use, filter compartments cannot be opened by a simple action.(IEC 60335-2-7)	Anbotek Anbotek Anbot	Dotek N Am
Anbotek Anbotek Anbotek Anbotek Anbotek	This requirement is not applicable to appliances intended for connection to the cold water supply only and without means to heat the water or to appliances fitted with filter compartment covers that are :(IEC 60335-2-7) — interlocked; — opened by means of a key; — opened by two separate actions such as pushing and turning; or — opened by rotating by more than 180 °.	Anbotek	Anbotek Anbotek Anbotek Anbotek Anbotek
22.104	Lid and door interlocks shall be constructed so that they are unlikely to be forced open in normal use (IEC 60335-2-7)	Anbotek Anbotek	Anborel
22.105	Any mechanical release mechanism intended to open the loading door after a failure shall only be accessible by using a tool.(IEC 60335-2-7)	upotek Aupotek Vupotel	Nanbe Nanbe
22.106	Steam generators shall be vented to the atmosphere. The aperture shall be at least 5 mm in diameter or at least 20 mm2 in area with a minimum dimension of 3 mm. (IEC 60335-2-7)	Anbotek Anbotek A	Anbotek
22.107	Appliances with steam generators shall be constructed in such a way that there is no spillage of water or sudden jets of steam or hot water likely to	tek Anbotek Anbotek	N Anbo







Page 39 of 105

Report No. 182414C400016101

404	botek Anbor Air IE	C 60335-2-7	ack sporek	Anbo. Air
Clause	Requirement + Test		Result - Remark	Verdict
upote.	And stek Anbotek Anbo.	, botek	Anbore. And Arek	
Anbotek Anbotek	expose the user to a hazard when the used in accordance with the instruct 60335-2-7)		Anbotek Anbote	otek Anbotek
yek Yupo,	If jets of steam or liquids are emitted protective devices, the electrical insube affected or the user exposed to a	ulation shall not	potek Anbotek An	Anbotek Nanbo
22.108	For appliances that are controlled by electronic circuits that limit the number elements and motors from being energy same time, simultaneous activation combination of heating elements and not render the appliance unsafe. (IE	per of heating ergised at the of any d motors shall	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Anbotek N Anbotek Anbotek
23	INTERNAL WIRING			
23.1	Wireways smooth and free from sha	rp edges	po, Ar. Polek	Anbore P An
botek	Wires protected against contact with fins etc.	burrs, cooling	Anbotek Ambotek	Antorek P
Anbotek	Wire holes in metal well-rounded or bushings	provided with	Aupotek Aupote	Nek Anborek
ek Vupo	Wiring effectively prevented from co with moving parts	ming into contact	ek Anborek A	nbotek Rhot
23.2	Beads etc. on live wires cannot char position, and are not resting on shar		Anbotek Anbotek	Anbore N Am
Anbotek	Beads inside flexible metal conduits an insulating sleeve	contained within	Anbotek Anbotek	photeN rek
23.3	Electrical connections and internal c movable relatively to each other not undue stress		ek Anbotek Anbo	tek Anbote
lotek b	Flexible metallic tubes not causing dinsulation of conductors	lamage to	obotek Anbotek	Anbote NAnb
botek	Open-coil springs not used	Anbo	botek Anbote	And New N
Yupolek Yu	Adequate insulating lining provided i spring, the turns of which touch one		Anbotek Anboten	ek Anbork
k Anbois	No damage after 10 000 flexings for flexed during normal use, or	conductors	k Anborek An	potek ANote
olek bi	100 flexings for conductors flexed dumaintenance	uring user	upotek Aupotek	Anbores NAME
nbotek	Electric strength test of 16.3, 1000 V parts and accessible metal parts	/ between live	Anbotek Anbotek	AT DOTON N
Anbotek	Not more than 10% of the strands of broken, and	f any conductor	Anbotek Anbote	Anborek
Anbo	not more than 30% for wiring supply consume no more than 15W	ing circuits that	tek Anbotek Ant	nbotek N







Page 40 of 105

Report No. 182414C400016101

IEC 60335-2-7 And Antonia Anto			
Clause	Requirement + Test	Result - Remark	Verdict
upote.	And Anbotek Anbo. A. A. Abotek	Anbore And And	potek
23.4	Bare internal wiring sufficiently rigid and fixed	Anbores And Orek	vupoN _k
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	otek Anbotek Anbotek	Anbotek Anbotek
iek An	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	Anbotek Anbotek Anbotek	ek N Ar
Anbotek Anbotek	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	Anbotek Anbotek	Anbotek
ek Ant	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	otek Anbotek Anbotek	N Anbot
oo ^{tek}	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.	Anbotek Anbotek Anb	otek N
Anbotek	A single layer of internal wiring insulation does not provide reinforced insulation	Anbotek Anbotek	Anboyek
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	nbotek Anbotek Anbotek	N ₁₀₀
obotek p	be such that it can only be removed by breaking or cutting	Anbotek Anbotek Anb	otek N
23.7	The colour combination green/yellow only used for earthing conductors	Anbotek Anbotek	Anbotek
23.8	Aluminium wires not used for internal wiring	tek Anbore K Ann Motek	Roote
23.9 pm	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	Rotek Pupoley Vila	P _{Anb}
Or B.	the contact pressure is provided by spring terminals	Anbore Amb	N
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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	anbotek Anbotek Anbotel
23.101	Insulation and sheath of internal wiring for the supply of magnetic valves and similar components shall be at least equivalent to the electrical characteristics of light polyvinyl chloride sheathed flexible cord (code designation 60227 IEC 52)(IEC 60335-2-7)	Anbotek Anbote	Parib rek botek
24	COMPONENTS	1 457	
24.1	Components comply with safety requirements in relevant IEC standards	otek Anbotek Anbotek	Anbo
ek a	List of components:	(see appended table)	ek P









Page 41 of 105

Report No. 182414C400016101

-oK	IEC 60335-2-7	notek Anbore	VIII
Clause	Requirement + Test	Result - Remark	Verdict
Aupoles	Anbortek Anbortek Anbort	Anbotek Anbo	hotek
Anbotek	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	Anborek Anborek	AnboPk
Vien	Relays tested as part of the appliance, or	Anti-Otek Anbotek	N
rek Anbo	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	botek Anbotek Anbotek	N _{upo}
nbotek anbotek	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	Anbotek Anbotek Anbotek Anbotek	botek P
Anbotek	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	otek Anbotek Anbotek	Amborek Amborek
Potek Vu	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections	Anbotek Anbotek Anbot Anbotek Anbotek Anbot	orek P Anh
Anbotek Anbotek	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	k abotek Anbo	Anbotek Anbotek
otek Ant	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 me	spotek Anbo. A.	ptek P Anb
Anbo.	If these conditions are not satisfied, the component is tested as part of the appliance.	Anbotek Anbotek	Anbore P
Anbore Anb	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	stek Anbotek Anbotek	N Anbotel
anbotek 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	Anbotek Anbotek Anbo	otek P A
Anbote ^k Anbote ^k	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	tek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek A	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	Anbotek Anbotek Anb	nootek P Ar
Anbotek Anbotek	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	ek Anbotek Anbotek botek Anbotek Anbotek	Anbołek Anbołek Anboł

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Page 42 of 105

Report No. 182414C400016101

Yes	hotek Anbor An rek IEC 6	0335-2-7	ok botek Anbore	b11.
Clause	Requirement + Test		Result - Remark	Verdict
upoter	And stek anbotek Anbot	hotek	Anbores And	nbotek
Anbotek Anbotek	No additional tests specified for national standardized plugs such as those detail 60083 or connectors complying with the sheets of IEC 60320-1 and IEC 60309	ed in IEC/TR	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
24.1.1	Capacitors likely to be permanently sub supply voltage and used for radio interfe suppression or for voltage dividing, com 60384-14	erence	Anbotek Anbotek Anbotek Anbotek	tek Ar
Anborek	If the capacitors have to be tested, they according to Annex F	are tested	Anbotek Anbotek	Anbo'N
24.1.2	Transformers in associated switch mod supplies comply with Annex BB of IEC 6		rek Anbotek Anbotek	Anbot
ek An	Safety isolating transformers comply wi 61558-2-6	th IEC	potek Anborek Anbor	ek N An
Anbotek	If they have to be tested, they are tested to Annex G	d according	Anbotek Anbotek An	bote N
24.1.3	Switches comply with IEC 61058-1, the cycles of operation being at least 10 00		Anbotek Anbotek	Aupolisk
anber Anber	If they have to be tested, they are tested to Annex H	d according	otek Anbotek Anbotek	N _{po} ,
potek	If the switch operates a relay or contact complete switching system is subjected		Anbotek Anbotek Anbot	otek N
Anbotek Anbotek	If the switch only operates a motor stari complying with IEC 60730-2-10 with the cycles of a least 10 000 as specified, th switching system need not be tested	number of	Anbotek Anbotek	Anbotek Anbotek
24.1.4	Automatic controls comply with IEC 607 cycles of operation being at least:	30-1 with the	relevant part 2. The number of	k Anb
otek p	- thermostats:	10 000	upotek Aupote Au	otek N p
abotek	- temperature limiters:	1 000	aborek Anbore An	[∞] γe ^γ N
abotek	- self-resetting thermal cut-outs:	300	abotek Anbote	N.
Anbotek	- voltage maintained non-self-resetting thermal cut-outs:	1 000	k Anbotek Anbotek	Anborel Anborel
tek Anbe	- other non-self-resetting thermal cut- outs:	botek 30	otek Anbotek Anbotel	Nanbi
. ek	- timers:	Amborek 3 000	Jupo, tek upolek Vup	N
^u po,	-progrmmers: (IEC 60335-2-7)	3 000	Anbor An hotek	N N
Anbotek Anbotek	The number of cycles for controls operaclause 11 need not be declared, if the ameets the requirements of this standard are short-circuited	ppliance	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
lek bu	Thermal motor protectors are tested in with their motor under the conditions sp		abotek Anbotek Anbo	ASK N
hen Anbo	tek Compliance Laboratory Limited	Due	Usek Vupe. by	1838060

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Page 43 of 105

Report No. 182414C400016101

	hotek Anbore And tek IEC 6	0335-2-7		
Clause	Requirement + Test	botek	Result - Remark	Verdict
Aupoter.	Aug Tek Upotek Aupon	hotek	Anbores And	abotek
nbotek	Annex D	Aug Stek	Vupotek Vupo,	ek botek
Anbotek Anbo	For water valves containing live parts are incorporated in external hoses for conneappliance to the water mains, the degree protection declared for subclause 6.5.2 60730-2-8 is IPX7	ection of an e of	atek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek	Thermal cut-outs of the capillary type co the requirements for type 2.K controls in 2-9		Anbotek Anbotek	Ambotek N
Anbotek Anbotek	or lid or door interlocks, the number of cy operation declared for subclauses 6.10 a IEC 60730-2-12 shall not be less than (IE 7)	and 6.11 of	tek Anbotek Anbo	botek Anbotek Anbot
Dr. Dr.	-6 000	abotek A	por dr. potek	Anbote N An
hpotek.	-for washing machines including drying o	peration:	Anborek Amborek	Antorek N
Anbotek	-interlock operates more than once durin operation, the minimum number of cycle accordingly.		ek Vupotek Vupot	Dotek Anbolek
24.1.5	Appliance couplers comply with IEC 603	320-1	tek abotek	Ambor N
hotek Atek	However, for class II appliances classification IPX0, the appliance couplers comp 60320-2-3		Anbotek Anbotek	Anbotek N Ant
AUB	Interconnection couplers comply with IE	C 60320-2-2	And tek anbore	bupor N'
24.1.6	Small lamp holders similar to E10 lampl comply with IEC 60238, the requiremen lampholders being applicable		ak Anbotek Anb	otek Anbote Anbotek Anbote
24.1.7	For remote operation of the appliance v telecommunication network, the relevant for the telecommunication interface circles appliance is IEC 62151	t standard	Anbotek Anbotek	Anbotek NAnt
24.1.8	The relevant standard for thermal links i	s IEC 60691	upotek Anbor	N.K
Anbotel Anbrel	Thermal links not complying with IEC 60 considered to be an intentionally weak purposes of Clause 19		otek Anbotek Anbo	nbotek Anbotel
24.1.9	Contactors and relays, other than motor relays, tested as part of the appliance	starting	mbotek Ambotek	Anborek N
Anbotek Anbotek	They are also tested in accordance with of IEC 60730-1, the number of cycles of in 24.1.4 selected according to the continuous in the appliance	operations	Anbotek Anbotek Anbotek Anbotek	tek Anbotek
24.2	Appliances not fitted with:	Aupo,	tek abotek Ar	por An
otek bu	- switches, automatic controls or power flexible cords	supplies in	hotek Anbotek	Anborer Panb
	All Villa	-10 Y	7(0)	0.11







Page 44 of 105

Report No. 182414C400016101

-xe/-	IEC 60335-2-7	ok sporte. And	
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	Anbotek Anbotek	Anbořek Anbořek
rek Aupo	- thermal cut-outs that can be reset by soldering, unless	potek Anbotek Anbotek	. Panbo
o, ok	the solder has a melding point of at least 230 °C	Appo. A. A. Apolek Anbo	N Pr
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		Anbotek Anbotek
24.4 Ant	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	Anbotek Anbote	N ^{nbo} ek Anl
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	tek Anbotek Anbotek	Ant Niek
potek Anb	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	Anbotek Anbotek Anbotek Anbot	otek N Ant
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	Anbotek Anbotek	Anbotek Anbotek
k Yupe	In addition, the motors comply with the requirements of Annex I	thotek Anbotek Anbotek	N NAND
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	Anbotek Anbotek Anb	N
Anboick	They are supplied with the appliance	Aupotek Aupo.	N _k
Anborek Anbo	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	ek Anbotek Anbotek	Anborek Anborek
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	Anbotek Anbotek Anb	upotek N N
Aupo	One or more of the following conditions are to be me	t: Anbo	AupoN K
Anbor	- the capacitors are of class S2 or S3 according to IEC 60252-1	dek Anbotek Anbotek	P(No.
50	- the capacitors are housed within a metallic or	atek anbotek Anbote	N







Page 45 of 105

Report No. 182414C400016101

Dir.	IEC 60335-2-7	ore An Potek Aupoter	Anbe
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And otek Anbotek Anbot Anbotek	Anbotes Ans otek	botek
Anboien	ceramic enclosure	Anbotes Anb	potek
Anborek	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	Anbotek Anbotek	Anbotek Anbotek
er Anbo	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	hotek Anbotek Anbotek	N _n bor
Anbotek	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	Anbotek Anbotek Anbo	potek N
24.101	Thermal cut-outs incorporated in washing machines for compliance with 19.4 shall be not self-resetting (IEC 60335-2-7)	Anbotek Anbotek	Anbotek Anbotek
Anbore	Compliance is checked by inspection	tek Aupole Aur.	Pupote
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBL	E CORDS	
25.1	Appliance not intended for permanent connection to fi connection to the supply:	xed wiring, means for	otek b
Anbotek	- 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	Anbotek Anbotek	unbotek Anbotek
otek Aupote	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	ek Anbotek Anbotek	N _{botek}
botek A	- pins for insertion into socket-outlets	abotek Anbote Ans	otek N
25.2	Appliance not provided with more than one means of connection to the supply mains	Anbotek Anbotek And	nboteP
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
25.3	Appliance intended to be permanently connected to fithe following means for connection to the supply main		tek An
Anbotek	- a set of terminals allowing the connection of a flexible cord	Anbotek Anbotek A	Aupolik Mk
Anbore	- a fitted supply cord	k Anbore An Hotek	Noter
tek Aupo	- a set of supply leads accommodated in a suitable compartment	otek Anborek Anbotek	Nanbor
Vilpotek Vilpotek Vilpotek	- 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	Anbotek Anbotek Anbo	N An botek Anbotek
ootek Anboti	- 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	hotek Anbotek Anbotek	Anbore Anbore

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Page 46 of 105

Report No. 182414C400016101

101	IEC 60335-2-7	ack botek Anbo	T-Ms
Clause	Requirement + Test	Result - Remark	Verdict
hote	And otek Anborek Anbo tek aborek	Anhore And notek	hotek
Anboten	conductors after the appliance has been fixed to its support	Aupoter Aupotek	Anbotek
Hek Anbot	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ANN Anbo
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)	Anbotek Anbotek An	Aupotek Pose N
Anboir Anboir	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	otek Anbotek Anbotek	Anhoi
25.5	Method for assembling the supply cord to the applian	ce: Anbotek Anbot	Ar
100,	- type X attachment	Anbor An	ooter N
Aupore	- type Y attachment	Anbore. And motek	Anbot P
Anboien	- type Z attachment, if allowed in relevant part 2	Anboren And arek	Why
Anbore	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	tek Anbotek Anbotek	Nor
potek p	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	Anbotek Anbotek Anbotek Anto	otek hotek
25.6	Plugs fitted with only one flexible cord	nbotek Anbote	Bek
25.7	Supply cords, other than for class III appliances, bein	g one of the following types:	Aug-
K Pi	- rubber sheathed (at least 60245 IEC 53)	ck shotek Anbotek	N
K Bus	- polychloroprene sheathed (at least 60245 IEC 57)	pore Ann Potek Vupote	NAME
obotek A	- polyvinyl chloride sheathed. Not used if they are like temperature rise exceeding 75 K during the test of cla		otek I
Anbotek	 light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 	Anbotek Anbotek A	Aupo NK
K Anbore	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	otek Anbotek Anbotek	P.P. ofe
otek bu	- heat resistant polyvinyl chloride sheathed. Not used than specially prepared cords	for type X attachment other	N P
nbotek Anbotek	heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	Anbotek Anbotek A	botek Anbotek
Anbora	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	tek anbotek Anbotek	Ar Noteh
V Pr	- halogen-free, low smoke, thermoplastic insulated ar	nd sheathed	N







Page 47 of 105

Report No. 182414C400016101

40-	IEC 60338	5-2-7 And hotek	Yupo, VI
Clause	Requirement + Test	Result - Remark	Verdict
Aupoles	And stek Anbotek Anbotek Anbote	botek Anbotes And stek	nbotek
Anbotek Anbotek	light duty halogen-free low smoke fle cable (62821 IEC 101) for circular c (62821 IEC 101f) for flat cable		k Anbotek
otek Anbo	Ordinary duty halogen-free low smo flexible cable (62821 IEC 102) for ci cable and (62821 IEC 102f(for flat of	rcular	nbotek Nabot
hotek	Supply cords for class III appliances adequa insulated	ately Annotes Annotes	Anbotek N
Aupotek	Test with 500 V for 2 min for supply cords of appliances that contain live parts	f class III	Anbotek Anbotek
25.8	Nominal cross-sectional area of supply cord less than table 11; rated current (A); cross-s area (mm²)		hotek Phote
25.9	Supply cords not in contact with sharp points edges	s or	Antotek P
25.10	Supply cord of class I appliances have a green/yellow core for earthing	Anbotek Anbotek Anbotek	inbot P
Anbore	In multi-phase appliances, the colour of the conductor of the supply cord is blue	neutral Anborak Anborak	botek N Anbotel
lek Vup	Where additional neutral conductors are pro	vided in the supply cord:	abotek N Anb
botek (other colours may be used for these additi neutral conductors;	onal	Anbotek N A
Anbotek Anbotek	 all of the neutral conductors and line cond are identified by marking using the alpha nu notation specified in IEC 60445 		Anbotek Anbotek
bu.	- the supply cord is fitted to the appliance	Anbort Anti-Otek Anti	DOJEK NO
25.11	Conductors of supply cords not consolidated soldering where they are subject to contact unless		Anbotek PAnbe
Aupor	the contact pressure is provided by spring to	erminals	AnboreN
25.12	Insulation of the supply cord not damaged w moulding the cord to part of the enclosure	when over Ambore	Aup N
25.13	Inlet openings so constructed as to prevent to the supply cord	damage	oren Ambor
otek Ar nbotek	If it is not evident that the supply cord can be introduced without risk of damage, a non-de lining or bushing complying with 29.3 for supplementary insulation provided		Anbořek P An
Anbotek	If unsheathed supply cord, a similar addition bushing or lining is required, unless the appl		Anbotek Anbotek
Anbo	class 0, or	projek Anboren Anb	nek Nabor
rek o	a class III appliance not containing live parts	And otek subotek A	nto k N







Page 48 of 105

Report No. 182414C400016101

-de-	IEC 60335-2-7	ack spoke Ant	- 36
Clause	Requirement + Test	Result - Remark	Verdict
pole.	And Joseph Andorsk Andrew	Anbore And Arek	hotek
25.14	Supply cords moved while in operation adequately protected against excessive flexing	Anbotes Anbotek	AnboN ^k
VU.	Flexing test, as described:	Aug Otek Aupotek	PN
Anbo	- applied force (N)	otek Anbotek	Nup
St. Vul	- number of flexings	Anborer Anbo	ek N P
potek	The test does not result in:	Anborek Anbo rek	potek
Anbotek	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	Anbotek Anbotek	AnbotN'
Anbore Anbore	- breakage of more than 10% of the strands of any conductor	otek Anbotek Anbotek	Ann
k Anb	- separation of the conductor from its terminal	potek Anbotek Anbo	N
otek	- loosening of any cord guard	Notek Anbotek Anbo	N N
oiek.	- damage to the cord or the cord guard	And otek Anbotek An	N
Anbotek	- broken strands piercing the insulation and becoming accessible	Anbotek Anbotek	Aupotek
25.15 Anbore	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	nbotek Anbotek Anbotek Anbotek Anbotek Anbote	N protek
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	Anbotek Anbotek	inboteN Anbotek
Anbotek	Pull and torque test of supply cord:	tek Anbotek Anbo	, nbo
Anbo	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	botek Anbotek Anbotel	N AN
upotek Tus. Vi	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm):	Anbotek Anbotek Anb	ipotek N
	Cord not damaged and max. 2 mm displacement of the cord	Anbotek Anbotek	Anb Not
25.16	Cord anchorages for type X attachments constructed	and located so that:	N
ek Y.	- replacement of the cord is easily possible	ob kek abotek Anbotes	, N ^{An}
potek An	- it is clear how the relief from strain and the prevention of twisting are obtained	Anbotek Anbotek Anbo	N
abotek	- they are suitable for different types of supply cord	Anboiek Anboies A	N-
Anbotek	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	W. W	Anbore Anbore
Anbot	they are separated from accessible metal parts by supplementary insulation	Otek Aupotek Augustek	Nat









Page 49 of 105

Report No. 182414C400016101

		-101	A.
Clause	Requirement + Test	Result - Remark	Verdict
hpote.	And Stek Anbotek Anbo. A. Wotek	Anbore. And orek	potek
Aupotek	- the cord is not clamped by a metal screw which bears directly on the cord	Anbotek Anbotek	Anbo N k
Anbor	- at least one part of the cord anchorage securely fixed to the appliance, unless	otek Anbotek Anbotek	Anbo
rek Ant	it is part of a specially prepared cord	abotek Anbote Ans	ek N
upotek	- screws which have to be operated when replacing the cord do not fix any other component, unless	Anbotek Anbotek Anb	potek N
Anborek	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	Anborek Anborek	Anbo'N hotek
Aupote	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	tek Anbotek Anbotek	Anbot Anbot
lootek Pup	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	Anbotek Anbotek Anbot	otek N An
Anborek	failure of the insulation of the cord does not make accessible metal parts live	Anbotek Anbotek	anbot N
Anborel	- for class II appliances they are of insulating material, or	ek Anbotek Anbotek	An N
ek Aup.	if of metal, they are insulated from accessible metal parts by supplementary insulation	botek Anbotek Anbote	k N Ant
Aupotek A	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	Anbotek Anbotek Anb	otek N
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	ek Anbotek Anbotek	Anbore Anbore
25.18	Cord anchorages only accessible with the aid of a tool, or	Potek Aupotek Vupotel	NA _{Up}
Anbotek K	Constructed so that the cord can only be fitted with the aid of a tool	Anbotek Anbotek Anb	nbotel N
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	Aupotek Aupotek	Anb Note
k Aupol	Tying the cord into a knot or tying the cord with string not used	otek Anbotek Anbotek	Anbr
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	inbotek Anbotek Anbo	ek P
25.21	Space for supply cord for type X attachment or for conconstructed:	nnection of fixed wiring	potek
Anbotek Anbot	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	tek Anbotek Anbotek	Notek Anbotek
***	- so there is no risk of damage to the conductors or	rotek Aupon	. N









Page 50 of 105

Report No. 182414C400016101

tok Vi	IEC 60335-2-7	otok Ambore And	40.
Clause	Requirement + Test	Result - Remark	Verdict
Upor	And Anbotek And	Anbor Ar. notek Ar	poter
Anborer	their insulation when fitting the cover	Aupotes, Aug	abotek
Anborek Anbor	- 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	tek Aupotek Aupotek	Anbore
tek Au	2 N test to the conductor for portable appliances; no contact with accessible metal parts	abotek Anbotek Anbot	N P
25.22	Appliance inlets:	Anbore And And	potek
Aupotek	- live parts not accessible during insertion or removal	Anbotes Anb	Nog
Anbotek	Requirement not applicable to appliance inlets complying with IEC 60320-1	Anbotek Anbotek	Anblick
Augo	- connector can be inserted without difficulty	en Aug stek vupotek	Nupc
Anti	- the appliance is not supported by the connector	Poter Wipp	N P
potek l	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	Anbotek Anbotek An	otek N
Vur	the supply cord is unlikely to touch such metal parts	And otek unbotek	Aupo N
25.23	Interconnection cords comply with the requirements for	or the supply cord, except that:	Aupor
y Aup.	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	potek Anbotek Anbotek	N _{po}
ores P	- the thickness of the insulation may be reduced	Anborek Anb	otek N
Anbotek Anbotek	- 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	Anbotek Anbotek Anbotek	nbote ^N
4 ,700	If necessary, electric strength test of 16.3	tek abotek Anbore	N
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected	Anbotek Anbotek Anbote	kek N ^{Am}
25.25	Dimensions of pins that are inserted into socket- outlets compatible with the dimensions of the relevant socket-outlet.	Anbotek Anbotek A	Aupotek Aupotek
Yek Anboy	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	otek Anbotek Anbotek	AN Ant
26	TERMINALS FOR EXTERNAL CONDUCTORS		
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	Anbotek Anbotek Ar	Aupotek
Anbot.	Terminals only accessible after removal of a non- detachable cover, except	tek Anbotek Anbotek	ArP of
in Yo.	for class III appliances that do not contain live parts	tek upotek Anbo	N







Page 51 of 105

Report No. 182414C400016101

*ok	Hotel Andrew IEC 6	0335-2-7	tok abotek Aupo	h.
Clause	Requirement + Test		Result - Remark	Verdict
Anbore	And Otek Anborek Anbo	hotek	Anbore. And Otek	nbotek
Anbotel Anbotel	Earthing terminals may be accessible if required to make the connections and n provided to clamp the wire independent connection	neans are	Anbotek Anbotek Anbotek Anbotek	AnboPk Anbotek
26.2	Appliances with type X attachment and for the connection of cables of fixed wiri with terminals in which connections are means of screws, nuts or similar device	ng provided made by	Upotek Aupotek Vuotek Vuo	N An
Anbores	the connections are soldered	Protek	Anbores Anti-	Nodal N
Aupoten	Screws and nuts not used to fix any oth component, except	er Anbotek	Anbotek Anbotek	AnMiek
stek An	internal conductors, if so arranged that unlikely to be displaced when fitting the conductors		potek Ambotek Anbotek	Napo.
Anbotek Anbotek	If soldered connections used, the condu- positioned or fixed that reliance is not pl soldering alone, unless		Anbotek Anbotek Ar	Anbotek Anbotek
Anbot Anbot	barriers provided so that neither clearar creepage distances between live parts a metal parts reduced below the values for supplementary insulation if the conductor free at the soldered joint	and other or	ek Anbotek Anbotek Dotek Anbotek Anbotek	An'N Anbore
26.3	Terminals for type X attachment and for of cables of fixed wiring so constructed conductor is clamped between metal su sufficient contact pressure but without do conductor	that the rfaces with	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
V Pills	Terminals fixed so that when the clamp	ng means is ti	ightened or loosened:	N
k. Nu	- the terminal does not become loose	botek Anl	ots. Augotek Wupot	N ^{Anio}
oter	- internal wiring is not subjected to stres	s botek	Aupores Aupo	potek N P
Anbotek	- neither clearances nor creepage distarreduced below the values in clause 29	nces are	Anborek Anborek	Anbote ^N
Anbore	Compliance checked by inspection and subclause 9.6 of IEC 60999-1, the torque being equal to two-thirds of the torque s (Nm)	e applied pecified	Anbotek Anbotek	Anbotek Anbotek
otek p	No deep or sharp indentations of the co	nductors	upotek Aupo, tek ab	olek N M
26.4	Terminals for type X attachment, except having a specially prepared cord and the connection of cables of fixed wiring, no preparation of conductors such as by so of cable lugs, eyelets or similar, and	ose for the special	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
rek Aup	so constructed or placed that conductor from slipping out when clamping screws		sek Vupo, W.	N Nabot







Page 52 of 105

Report No. 182414C400016101

ack de	IEC 60335-2-7	tek abotek Anbo.	lv.
Clause	Requirement + Test	Result - Remark	Verdict
pore	And Anbotek Anbour A. Abotek	Anbore And Otek	potek
Anbotek	tightened	Anboten Anbo	potek
26.5 Anbor	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	otek Anbotek Anbotek	Anbore
In Vin	Stranded conductor test, 8 mm insulation removed	shoots k hotek Anbor	NA
botek	No contact between live parts and accessible metal parts and,	Anbotek Anbotek An	potek N
Anbotek	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	ek Anbotek Anbotek	Anbotek Anbotek
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²)	Anbotek Anbotek Anbotek Anbotek Anbotek	otek Ar
Anbotek	If a specially prepared cord is used, terminals need only be suitable for that cord	Aupotek Pupotek	Aupolek
26.7 M	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	potek Anbotek Anbotek	k Woo
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other	Anbotek Anbotek Anb	otek N
26.9	Terminals of the pillar type constructed and located as specified	Anbotek Anbotek	Anb Nek
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	botek Anbotek Anbotes	AN Ant
otek Ar	conductors ends fitted with means suitable for screw terminals	Anbotek Anbotek Anb	ack N
	Pull test of 5 N to the connection	Anbo tek abotek A	nbote N
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	Anbotek Anbotek	Anb P
tek Anboy	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	potek Anbotek Anbotek	Ant Ant
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	potek N Anbotek
27	PROVISION FOR EARTHING	D1. PSL	
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing	Class I	P

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Page 53 of 105

Report No. 182414C400016101

Ar.	IEC 60335-2-7	por An hotek Anbote	Anb
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And Anbotek Anbo. Anbo. Anbotek	Anbote And And	hotek
Anboten	terminal or earthing contact of the appliance inlet	Anboten And	abotek
Anborel	Earthing terminals and earthing contacts not connected to the neutral terminal	Aupotek Aupotek	Potek
Stek Wup.	Class 0, II and III appliances have no provision for protective earthing	otek Anbotek Anbotek	N _{upo} ,
Anbotek .	Class II appliances and class III appliances can incorporate an earth for functional purposes	Anbotek Anbotek Anbo	potek N
Anboten	Safety extra-low voltage circuits not earthed, unless	Anboten Anbotek	Node
Anborek	protective extra-low voltage circuits	k Aupotek Aupo,	Nick
27.2 _{Ambo}	Clamping means of earthing terminals adequately secured against accidental loosening	tek Anbotek Anbotek	Pupote
olek Vi	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	Anbotek Anbotek Anbot	otek N And
Anborek	- do not provide earthing continuity between different parts of the appliance, and	Anbore Am	Anbot N
Anbot	- conductors cannot be loosened without the aid of a tool	tek Anbotek Anbotek	Anborel Anborel
uposek Vusek Vu	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek Anbote	otek N Anbo
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	Anbotek Anbotek Anbotek Anbotek Anbotek	inbote Ň Anbotek Anbotek
hotek Ant	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	botek Anbotek Anbotek	PANDO
Anbotek Anbotek	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek	nbote ^K N Anbote ^k
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	otek Anbotek Anbotek	A.Roten Anbot
Anbotek A	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	Anbotek Anbotek Anbo	ek P An
Anbote.	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm	Anbotek Anbotek	Anbo N k
Pupc Vur	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	otek Anbotek Anbotek	A'N Anbor
0- P	Viet Viles	700. by	ion rul







Page 54 of 105

Report No. 182414C400016101

-2/-	IEC 60335-2-7	botek Anbo	br.
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And Otek Anbotek Anbot A botek	Aupore, Aug	nbotek
Anbotek	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	Anbotek Anbotek	Anbotek Anbotek
otek Anton	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek Anbotek	N _{Anbo}
27.5	Low resistance of connection between earthing terminal and earthed metal parts	Anbotek Anbotek Ar	lbotek P
Anbotek Anbotek	This requirement does not apply to connections providing earthing continuity in the protective extralow voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
nbotek n	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek Anbot	otek N An
Anborek	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω):	0.028Ω	Aupotek
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.	nbotek Anbotek Anbotek	N _b ote Anbote
Aupotek V	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	Anbotek Anbotek Ant	ptek N
Aupotek	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	tek Aupotek Vupotek	Anbote Anbote
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	Anbotek Anbotek Anb	nbotek
Anborek Anborek	Screws not of soft metal liable to creep, such as zinc or aluminium	ek Anbotek Anbotek	Anb P
k abo	Diameter of screws of insulating material min. 3 mm	No insulating screws used	N
otek An	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	Anbotek Anbotek Anbotek	stek Name
Anbotek	Screws used for electrical connections or connections providing earthing continuity screwed into metal	Anbotek Anbotek A	Anbotek Anbotek
A Pupou	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	otek Anbotek Anbotek	Anbo







Page 55 of 105

Report No. 182414C400016101

Not.	Hotel And Ak Kotek IE	EC 60335-2-7	otek vupojen Au	D- 10/4
Clause	Requirement + Test	nbotek	Result - Remark	Verdict
'upote.	And stek anbotek Anbo.	r hotek	Anbore. And arek	Upotek
Anbotek Anbotek	For type X attachment, screws to be replacement of supply cord or for us not of insulating material if their replacement screw impairs basic insulation	ser maintenance, acement by a	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	k Anbotel
	For screws and nuts; torque-test as table 14		(see appended table)	obotek P
28.2	Electrical connections and connection earthing continuity constructed so the pressure is not transmitted through insulating material liable to shrink or	nat contact non-ceramic	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbot'	there is resiliency in the metallic par for shrinkage or distortion of the inst		rek Anborek Anbore	orek Anbo
iek Aul	This requirement does not apply to which:	electrical connecti	ons in circuits of appliances	for N
Anbotek	30.2.2 is applicable and that not exceeding 0,5 A	t carry a current	Anbotek Anbotek	Antoren N
Aupotek	30.2.3 is applicable and that not exceeding 0,2 A	t carry a current	Anbotek Anbotek	Anblick
28.3	Space-threaded (sheet metal) screw electrical connections if they clamp together		potek Anbotek Anbo	hootek Nipor
Anbotek Anbotek	Thread-cutting (self-tapping) screws rolling screws only used for electricathey generate a full form standard mathread	al connections if	Anbotek Anbotek	Anbotek Anbotek
Anbotel	Thread-cutting (self-tapping) screws are likely to be operated by the user		ek Anbotek Anbot	rek Nore
lotek b	Thread-cutting, thread rolling and sp connections providing earthing cont connection:			e N
Aupore.	- in normal use,	k potek	Anbores Amb	MporeN
Anboren	- during user maintenance,	All hotek	Anboten Anbo	anb Nek
Anborek	- when replacing a supply cord having attachment, or	ng a type X	k Aupotek Vupo,	ok Note
Pupp	- during installation	shotek Ant	otek "Up	potek Nanto
otek Ar	At least two screws being used for e providing earthing continuity, unless		Upotek Vupotek	Anbolek N A
Aupotek	the screw forms a thread having a le half the diameter of the screw	ength of at least	Anbotek Anbotek	Aupolik
28.4	Screws and nuts that make mechan secured against loosening if they als electrical connections or connection earthing continuity	so make	tek Anbotek Anbote	otek Anbe









Page 56 of 105

Report No. 182414C400016101

40.	IEC 60335-2-7	his ok botek Anbo	. r.
Clause	Requirement + Test	Result - Remark	Verdict
Aupote.	And Otek Anbotek Anbo. Ak Abotek	Anbore, And And	nbotek
Anbotek	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	Anbotek Anbotek	Anbo N k
VU.	if an alternative earthing circuit is provided	ye Ann Otek Anbosek	PN
tek Aug	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	Anbotek Anbotek Anbotek	N.nbo
29	CLEARANCES, CREEPAGE DISTANCES AND SO	OLID INSULATION	
Auporek	Clearances, creepage distances and solid insulation withstand electrical stress	Anborek Anborek	Anbot P
rek Anbore	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies:	potek Anbotek Anbotek	Anborr
potek l	The microenvironment is pollution degree 1 under type 1 protection	Anbotek Anbotek Anbot	ookek N
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Aup	These values apply to functional, basic, supplementary and reinforced insulation	Anbotek Anbotek Anbote	P Anb
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)	otek P p
Anbotek	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	otek Anbotek Anbotek	Anbotel
Anbotek Ar	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek A
Anbotek Anbotek	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	tek Anbotek Anbotek	Anbotek
*ek	Impulse voltage test is not applicable:	upo tek upotek Aupois	N
upotek br	- when the microenvironment is pollution degree 3, or	Anbotek Anbotek Anbr	P Ar
Aupotek	- for basic insulation of class 0 and class 01 appliances, or	Anbotek Anbotek	Anbo'N ^k
Anborr	- to appliances intended for use at altitudes exceeding 2 000 m	tel Anbotek Anbotek	ATNO
	V 1-01 PM	W 100	D-1-1







Page 57 of 105

Report No. 182414C400016101

- 2/4	IEC 60335-2-7	ok botek Anbo	by.
Clause	Requirement + Test	Result - Remark	Verdict
nbote.	Ann Otek Anbotek Anbo. Ak Abotek	Anbore. And Andrew	
Anboten	A force of 2 N is applied to bare conductors, other than heating elements	Anbotek Anbotek	AnboPk otek
Vien	A force of 30 N is applied to accessible surfaces	And Anbotek	PAP
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	Opotek Anbotek Anbotek	P.nbo
potek	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	potek
Anbotek	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	tek Aupotek Aupotek	N _{rek} Anborek
rek Anb	Lacquered conductors of windings considered to be bare conductors	anbotek Anbotek Anbot	k P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see appended table)	otek N
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)	Aupotek Pupotek
opotek Anbo	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	botek Anbotek Anbotek Anbotek Anbotek	N Ant
29.1.4	Clearances for functional insulation are the largest va	lues determined from:	Pek
Ann	- table 16 based on the rated impulse voltage:	(see appended table)	Anbe
k Aupo	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	otek Anbotek Anbotek	N _{po}
otek Ar	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	Anbotek Anbotek Anb	KOK N
upotek	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	Auporek Auporek A	boteN
A boiek	the microenvironment is pollution degree 3, or	k abotek Anbote	Ans Potel
k Aupor	the distances can be affected by wear, distortion, movement of the parts or during assembly	otek Anbotek Anbotek	Anbc Anbc
nbotek An	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	nbotek Anbotek Anbo	ek P A
Anbotek	Lacquered conductors of windings considered to be bare conductors	Anbotek Anbotek	^{kupo} b _k
Anbote	However, clearances at crossover points are not measured	tek Anbotek Anbotek	A/P
tek ant	Clearance between surfaces of PTC heating	motek Anbotek Anbo	N N
	of No. Dir.	Un Pol	P







Page 58 of 105

Report No. 182414C400016101

.eV Yes	IEC 60335-2-7	botek Anbore	bi.
Clause	Requirement + Test	Result - Remark	Verdict
bote	And Otek Anbotek Anbot A. Botek	Anbores And Otek	potek
Anbotek	elements may be reduced to 1mm	Aupolek Aupo	abotek
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	Anbote Anbote
Aupo.	- table 16 based on the rated impulse voltage:	potek Anbour	Nup
ek Ant	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	Anbotek Anbotek Anbot	ek N
anbotek .	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	Anbotek Anbotek An	N bote. N
Anborek Anborek	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	otek Anbotek Anbotek	Ant Nie
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek	N A sotek
Anbotek Anbotek	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	nbotek Anbotek Anbotek	Aup.
Aupotek Valootek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N Inbotek Anbotek
Hek Anbo	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	N
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)	hote P
Aupo	Pollution degree 2 applies, unless	er Aupo, by bolek	PNO
ick Aupor	- precautions taken to protect the insulation; pollution degree 1	botek Anbotek Anbotek	N _x n'
(potek	- insulation subjected to conductive pollution; pollution degree 3	Anbotek Anbotek Anbo	poiekP
Anbotek	A force of 2 N is applied to bare conductors, other than heating elements	Anbotek Anbotek	Anbo Pk
AUG	A force of 30 N is applied to accessible surfaces	Ann Otek Anbotek	A.B.
ek Vupo.	In a double insulation system, the working voltage for both the basic and supplementary insulation is	stek upotek Mupotek	Nuc







Page 59 of 105

Report No. 182414C400016101

DI.	IEC 60335-2-7	potek Anbotek	Anbe
Clause	Requirement + Test	Result - Remark	Verdict
Anbore.	Ann Otek Vupotek Aupo. Ak Podek	Anbore. And orek	
Aupotek	taken as the working voltage across the complete double insulation system	Anbotek Anbotek	Anbotek
ek Anbo	Pollution degree 3, and the insulation with a CTI not less than 250,(IEC 60335-2-7)	tek Anbotek Anbotek	ANO
opotek Ar	Unless the insulation is enclosed or located so that it is unlikely to be exposed to pollution during normal use of the appliance due to:	Anbotek Anbotek Anbot	otek N Ant
abotek	- condensation produced by the appliance	Anbotek Anbote An	N
Di. Potek	- chemicals, such as detergent or fabric conditioner	hotek Anboten	And Nek
Anbot Anbot	Compliance is checked by inspection and measurements as specified	lek Anbotek Anbotek	Anbore
29.2.1	Creepage distances of basic insulation not less than specified in table 17:	(see appended table)	ek P Anb
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek
nbotek Ant	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	Dotek Anbotek Anbotek Anbotek Anbotek Anbote	otek Vi
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or:	(see appended table)	Wapotek
of 20	Table 2 of IEC 60664-4, as applicable:	ok abotek Anbote	N
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	b Aug
Yupa	Table 2 of IEC 60664-4, as applicable:	And tek appolek A	N Ook
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	Anb P
botek Antor	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N Anbot Anbot
Anbotek	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	Anbotek Anbotek Ar	Anborok
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	hotek Anbotek Anbotek	P Anbote
	Sk 200. In Case of the Case of	74. 200,	









Page 60 of 105

Report No. 182414C400016101

	IEC 60335-2-7		
Clause	Requirement + Test	Result - Remark	Verdict
'upote.	And Anbotek Anbo. A. Abotek	Anbore. And And	nbotek
Anboten	Compliance checked:	Anbotes Anti-otek	vupo Pk
Anborek	- by measurement, in accordance with 29.3.1, or	Anboten Anbo	Potek
Anbo	- by an electric strength test in accordance with 29.3.2, or	otek Anbotek Anbotek	N
nbotek Anbotek	- 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek botek
Anbotek	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	kek Anbotek Anbotek	N _{tek} Anbore
tek Anhotek	- 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ootek And
Anbotek Anbote	- 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	tek Anbotek Anbotek	Niek Anbotek
29.3.1	Supplementary insulation have a thickness of at least 1 mm	potek Anbotek Anbote	k N Anbo
potek	Reinforced insulation have a thickness of at least 2 mm	Anborek Anborek Ant	otek P A
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	Anbotek Anbotek	Aupolek Vek
Anbote	Supplementary insulation consist of at least 2 layers	ek Aupoten Augo	Nootek
k Anb	Reinforced insulation consist of at least 3 layers	Hotek Anbotek Anbo	N N
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	Anbotek Anbotek Anb	otek N M
Aupore	the electric strength test of 16.3	Aupotes Aur Potek	in Note N
Anbotek	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	Anbotek Anbotek	Anbotek Anbotek
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19	Anbotek Anbotek Anbotek	Stek Mupo
30	RESISTANCE TO HEAT AND FIRE		
30.1	External parts of non-metallic material,	Anbotek Anbo	aboP ^K
nbotek	parts supporting live parts, and	Anbotek Anbore	Potek
Anbo	parts of thermoplastic material providing supplementary or reinforced insulation	otek Anbotek Anbotek	P Anbote
Hek An	sufficiently resistant to heat	potek Anbo. Ar.	rek P Ant







Page 61 of 105

Report No. 182414C400016101

40.	IEC 60335-2-7	ok botek Anbore	bu.
Clause	Requirement + Test	Result - Remark	Verdict
'upoter	And stek Anbotek Anbo. ok hotek	Anbore. And arek	potek
Anbotek	Ball-pressure test according to IEC 60695-10-2	Anbotek Anbo	aboP ^k
Anborek Anborek	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 30.1)	Anbotel Anbotel
Anbotek Anbotek	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 30.1)	ootek P A
Anbot Anbot	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 30.1)	Anbo
30.2	Parts of non-metallic material resistant to ignition and spread of fire	Anbotek Anbotek Anb	otek P
Aupote	This requirement does not apply to:	Anbore K Ant Sotek	Anbote P
Anbote Anbote	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	ek Anbotek Anbotek	Ant Prek
potek	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	Anbotek Anbotek Anb	otek P
Anbotek	Compliance checked by the test of 30.2.1, and in addition:	Anbotek Anbotek	Anborek Anborek
Anbore	- for attended appliances, 30.2.2 applies	ek Anbore Am	Noot
K Anb	- for unattended appliances, 30.2.3 applies	otek Anbotes And	Pool
otek p	For appliances for remote operation, 30.2.3 applies	botek Anbotek Anbo	N N
unbotek	For base material of printed circuit boards, 30.2.4 applies	Aupotek Vupotek Vup	nbotekP
30.2.1	Parts of non-metallic material subjected to the glowwire test of IEC 60695-2-11 at 550°C	(see appended table 30.2)	Anb Pek
tiek Anbe	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	otek Anbotek Anbotek	Ant Ant
hotek	the material is classified at least HB40 according to IEC 60695-11-10	Anbotek Anbotek Anbo	potek N
Anbotek Anbotek	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Anbotek Anbotek	Anbotel
30.2.2	Appliances operated while attended, parts of non- metallic material supporting current-carrying connections, and	tek Anbore Anborek	Nanba

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Page 62 of 105

Report No. 182414C400016101

-2/-	IEC 60335-2-7	ak botek Anbe	
Clause	Requirement + Test	Result - Remark	Verdict
Aupote.	And otek Anbotek Anbo. Lek Abotek	Anbore, And And	upotek
Anbotek	parts of non-metallic material within a distance of 3mm of such connections,	Anbotek Anbotek	Anbo N k
Anbor	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	A'N Anbo
stek Au	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	Mbotek Anbotek Anbo	SK N PL
Upo.	- 650 °C, for other connections	Anbore An Borek Ar	pole N
Anborek	Glow-wire applied to an interposed shielding material, if relevant	Anbotek Anbotek	Aupotek Potek
Anbore	The glow-wire test is not carried out on parts of mater wire flammability index according to IEC 60695-2-12		Anbor
lek Vup	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	nbotek Anbotek Anbot	ek N An
isk is	- 650 °C, for other connections	And otek Anbotek An	N
Ando	The glow-wire test is also not carried out on small par	rts. These parts are to:	Pupor N
Auporel	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	Aupotek Vupotek	An'N
sk Yup,	- comply with the needle-flame test of Annex E, or	(see appended table 30.2/30.2.4)	k N Aug
potek p	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10:	Anborek Anborek Ank	otek N
Anbotek	Glow-wire test not applicable to conditions as specified:	Anbotek Anbotek	Aupolek Nek
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	ek Aupolek Wupolek	Roote
lotek by	The tests are not applicable to conditions as specified:	Upotek Wipotek Wipote	P ^{Ans}
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	Anbotek Anbotek A	nbotelP
Aupotek	parts of non-metallic material, other than small parts, within a distance of 3 mm,	Anbotek Anbotek	Potek
otek Anbo	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	Prupe
mbotek	Glow-wire applied to an interposed shielding material, if relevant	Anbotek Anbotek Anbo	potekN
Anbotek	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		Anbotek Anbotek
30.2.3.2	Parts of non-metallic material supporting connections, and	otek Vuposek Vuposek	Rabo







Page 63 of 105

Report No. 182414C400016101

,e ^k	Motek Andr A. Dek IEC	60335-2-7	tok abotek Anbo	1-/r
Clause	Requirement + Test	anbotek	Result - Remark	Verdic
boje.	And Otek Anbotek Anbo	h. abotek	Anbore. And	upotek
Anboter	parts of non-metallic material within a comm,	distance of	Anbotek Anbotek	AnboPk
Anbo	subjected to the glow-wire test of IEC (with appropriate severity level:	60695-2-11	(see appended table 30.2)	A P
ek Vi	- 750 °C, for connections carrying a cu exceeding 0,2 A during normal operation		abotek Anbotek Amb	P Yell
00.	- 650 °C, for other connections	Motek	Anbor Ar borek A	upore N
Anbotek	Glow-wire applied to an interposed shi material, if relevant	elding	Aupotek Pupotek	Anbotel Notel
Anbo	However, the glow-wire test of 750 °C parts of material fulfilling both or either			Anb.
otek An	- a glow-wire ignition temperature acco	ording to IEC	botek Anbotek Anbo	TOK N P
inpotek K	775 °C, for connections carryir exceeding 0,2 A during norma		Anbotek Anbotek Ar	Anboten
Aupoles	675 °C, for other connections	ok Projek	Anbores Ant otek	N/N Ne
Anbor	- a glow-wire flammability index accord 60695-2-12 of at least:	ding to IEC	ek Anbotek Anbotek	Na
te _k Vu	- 750 °C, for connections carrying a cu exceeding 0,2 A during normal operation		potek Anbotek Anbot	N P
botek	- 650 °C, for other connections	Aupo	nbotek Anbote An	North
botek	The glow-wire test is also not carried o	out on small par	ts. These parts are to:	Nex
Anbore	- comprise material having a glow-wire temperature of at least 775 °C or 675 °C appropriate, or		ek Anbotek Anbotek	Anbo Anbo
lek b	- comprise material having a glow-wire index of at least 750 °C or 650 °C as a		Anbotek Anbotek Anbot	otek N
potek	- comply with the needle-flame test of	Annex E, or	Auposek Aupo. W.	,bote N
Anborek	- comprise material classified as V-0 or according to IEC 60695-11-10	r V-1	Anbotek Anbotek	Aup Wk
Anbe Anbe	The consequential needle-flame test of encroach within the vertical cylinder pland on top of the non-metallic parts surparts of non-metallic material within a coparts are those:	aced above the porting curren	e centre of the connection zone nt-carrying connections, and	N AT
Anbotek hotek	- parts that withstood the glow-wire tes 60695-2-11 of 750 °C or 650 °C as approduce a flame that persist longer that	propriate, but	Anbotek Anbotek	Aupotek N
Anbo	- parts that comprised material having flammability index of at least 750 °C or appropriate, or		tek Anbotek Anbotek	AN Ant







Page 64 of 105

Report No. 182414C400016101

100	IEC 60335-2-7	tok spore An	- 34
Clause	Requirement + Test	Result - Remark	Verdict
Upote.	And Anbotek Anbo	Anbore. And And	
Anbotek	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	Anbotek Anbotek	Anbore!
rek Aupo,	- small parts for which the needle-flame test of Annex E was applied, or	potek Anbovek Anbovek	N _{up}
potek k	- small parts for which a material classification of V-0 or V-1 was applied	Anbotek Anbotek Anbo	botek N P
Anbotek	However, the consequential needle-flame test is no parts, including small parts, within the cylinder that a		Anbot N
Anbore	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	Dotek Aupotek Aupotek	AnN
ak Ant	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	Arbotek Anbotek Anbot	ek N
Anbotek Anbotek	- 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	Anbotek Anbotek An	Anbotek
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	(see appended table 30.2/30.2.4)	N
V. Vup	Test not applicable to conditions as specified:	Anbotek Anbo	PAT
31	RESISTANCE TO RUSTING		
inbotek otek	Relevant ferrous parts adequately protected against rusting	Anbotek Anbotek	anbote P
Anbe	Tests specified in part 2 when necessary	Anbo tek nbotek	AUPU
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		
otek Anbe	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	Anbotek Anbotek Anbote	otek Pan
nbotek	Compliance is checked by the limits or tests specified in part 2, if relevant	Anbotek Anbotek A	nbote ^K N
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		
tek Vupo	Description of routine tests to be carried out by the manufacturer	tpotek Vupotek Vupotek	PAN
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE E RECHARGED IN THE APPLIANCE	BATTERIES THAT ARE	
Anbotek	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	Not powered by rechargeable batteries	Anbore Anbore
VUL	Jack 100 h	Police Aug Stek	105







Page 65 of 105

Report No. 182414C400016101

	IEC 60335-2-7	W. Toyek Aupo,	h.
Clause	Requirement + Test	Result - Remark	Verdict
Anboie.	And Anbotek Anbo tek Abotek	Anbore And And	
Anbotek Anbotek	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	tek Anbotek Anbotek	Anbotek
otek Ar	b) The part of the appliance incorporating the batter is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery	y Anbotek	nbotek An
Anbotek Anbot	c) The part of the appliance incorporating the batter is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N Anbor
3.1.9	Appliance operated under the following conditions:	hotek Anbotel Anb	otek
Anbotek	- the appliance, supplied by its fully charged battery operated as specified in relevant part 2	Anbotek Anbotek Ar	Anbote N
Aupote	the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate	ockek Aupotek Aupotek	Anbore Anbore
botek Anbotek	-if possible, the appliance is supplied from the suppl mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2	Anbotek Anbotek Anbo	obek nambotek
Anbore Anbore	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed	otek Anbotek Anbotek	Anbotel
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	Anbotek Anbotek Anbot	otek N
5.B.101	Appliances supplied from the supply mains tested a specified for motor-operated appliances	S Anbotek Anbotek	Albore N
7.1 Amborek	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) and polarity of the terminals	stek Anbotek Anbotek	Anborek Anborek
otek Ar	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	Anbotek Anbotek Anbotek Anbote	olek Vyuga
Anbotek Anbotek	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or	Anbotek Anbotek	Anbotek Anbotek
Anbo	use only with <model designation=""> supply unit:</model>	Potek Vupoter Yun	N _n bo'
7.6	Additional symbols	hotek Anboten Anbo	N Y









Page 66 of 105

Report No. 182414C400016101

40.4	hoten Anbo A. Dotek IE	C 60335-2-7	tek spotek A	Up.
Clause	Requirement + Test	nbotek	Result - Remark	Verdict
Aupore.	Ant arek Anborek Anbo	A. Shotek	Anbore. And And	Anbotek
7.12	The instructions give information reg	arding charging	Anbotes Anbotes	. nboN ^k
Anbotek	The instructions for appliances incorbatteries intended to be replaced by includes required information		otek Anbotek Anbo	hek Anbo
stek Mu	Instructions for appliances containin substance of the following:	g non user-replac	ceable batteries state the	Anbotak - Ar
Upo, ek	This appliance contains batteries the replaceable by skilled persons	at are only	Anbotek Anbotek	Anbotek Notek
Anbotek	Instructions for appliances containin replaceable batteries shall state the following:		tek Anbotek Anbot	ek Anborek
iek nat	This appliance contains batteries that	at are non-replace	eable Model An	bo. br.
botek	WARNING: For the purposes of recl battery, only use the detachable sup with this appliance		Anbotek Anbotek	Anborek N
Anbotek	If the symbol for detachable supply meaning is explained	unit is used, its	Anbotek Anbotek	anbotek
7.15	Markings placed on the part of the a connected to the supply mains	ppliance	ek Aupolek Aut	potek Noot
otek bu	The type reference of the detachable placed in close proximity to the sym		ootek Anbotek	Anbore N An
8.2	Appliances having batteries that accinstruction may be replaced by the unhave basic insulation between live prinner surface of the battery comparts	ser need only arts and the	Anbotek Anbotek	Anbotek Anbotek
k Aupore	If the appliance can be operated wit double or reinforced insulation requi		ek Anborek Anb	otek Woote
11.7	The battery is charged for the period instructions or 24 h		upotek Anbotek	inbote NAME
11.8	Temperature rise of the battery surfa exceed the limit in the battery manu- specification; measured (K); limit (K)	facturer's	Anbotek Anbotek	Anbote ^N
Anbotek	If no limit specified, the temperature exceed 20 K; measured (K)		k Aupotek Aupo	Hek Amore
19.1	Appliances subjected to tests of 19.1 and 19.B.103	B.101, 19.B.102	obotek Anbotek A	hbotek Nanbr
19.10	Not applicable	Anbor	obotek Anbotes	Anbo
19.B.101	Appliances supplied at rated voltage battery being continually charged	for 168 h, the	Anbotek Anbotek	Anborek Anborek
19.B.102	For appliances having batteries that without the aid of a tool, short-circuit of the battery, the battery being fully	of the terminals	otek Aupotek Aupo	tek ArNotek
19.B.103	Appliances having batteries replace	able by the user	Potek William W	N ASTON

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Page 67 of 105

Report No. 182414C400016101

or Due	IEC 60335-2-7	oote Anbotek Anbotek	Aupo
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And Otek Anborek Anbo	Anbores And Orek	botek
Aupotek	supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction	Anbotek Anbotek	Anbotek
19.13 MOON	The battery does not rupture or ignite	tek Aupotek Aupo	Naore
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength	nbotek Anbotek Anbot	ek N Ant
Ahbote.	Part of the appliance incorporating the pins subjected 2, of IEC 60068-2-31, the number of falls being:	to the free fall test, procedure	ootek N
Anborek	- 100, if the mass of the part does not exceed 250 g (g)	Anbotek Anbotek	Anborek Anborek
Anbore Anbore	- 50, if the mass of the part exceeds 250 g:	tek Anbore Am	Nabote
otek Anb	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	botek Anbotek Anbot	K N Anb
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible	Aupotek Aupotek Auf	ote N P
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts	ek Anbotek Anbotek	Anbotek Anbotek
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	potek Anbotek Anbote	N Anbe
-potek	For other parts, 30.2.2 applies	Anbotek Anbotes And	N
С	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		
rok Anbo	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	potek Anbotek Anbotek	Moore
poten Ar	Test conditions as specified	Aupoter Aupotek Jup	Jok N M
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		
Anbotek Anbotek	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	k Anbotek Anbotek	Anbotek Anbotek
rek o	Test conditions as specified	stek upotek Anbore	N
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		
Anbore	Needle-flame test carried out in accordance with IEC modifications:	60695-11-5, with the following	AnboN ^k
7 And	Severities	K hotek Anbotek	Vupo.
octek Ant	The duration of application of the test flame is $30 \text{ s} \pm 1 \text{ s}$	abotek Anbotek Anbotek	N ^{nbox}
- 1/	The same of the sa	V 1-0/2, DU	







Page 68 of 105

Report No. 182414C400016101

	Requirement + Test	Result - Remark	Verdic
Clause	Requirement + 1 est	Result - Remark	verdic
no siek	-ukotek Aupotek Aupotek	And Anbotek A	upo.
9 _{Anbor}	Test procedure	Anbo Kek abotek	PUPOLE
9.1 Anbore	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1	otek Anbotek Anbotek	Anbore
9.2	The first paragraph does not apply	botek Anbotek Anb	N Y
ootek	If possible, the flame is applied at least 10 mm from a corner	Anbotek Anbotek Anbo	botek N
9.3	The test is carried out on one specimen	Anbores Ann Ann	Anbotok N
Anborek	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test	ctek Aupotek Aupotek	Ani Nite
11 An	Evaluation of test results	upotek Anbo, ak hot	ex P
otek	The duration of burning not exceeding 30 s	abotek Anbore An	orek N
Anbotek	However, for printed circuit boards, the duration of burning not exceeding 15 s	Anbotek Anbotek An	Anbord N
=	ANNEX F (NORMATIVE) CAPACITORS		
	Capacitors likely to be permanently subjected to the radio interference suppression or voltage dividing, co		N
0,	of IEC 60384-14, with the following modifications:	abovek Anbo	otek
1.5 ex	of IEC 60384-14, with the following modifications: Terms and definitions	Anbotek Anbotek Ant	otek-
400	Jek Vipo, W. Pose.	Anbotek Anbotek Antotek Antotek	Anboret-
1.5.3	Terms and definitions	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Antorek- Nek
1.5.3 1.5.4	Terms and definitions Class X capacitors tested according to subclass X2	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	- Apoles
1.5.3 1.5.4	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable	Anbotek	- Apoie
1.5.3 1.5.4 1.6	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotes Anbo
1.5.3 1.5.4 1.6	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Augos War
1.5.3 1.5.4 1.6 3.4 3.4.3.2	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbote Anbote Nan otek N
1.5.3 1.5.4 1.6 3.4 3.4.3.2	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotel Nar
1.5.3 1.5.4 1.6 3.4 3.4.3.2	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described Visual examination and check of dimensions	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N N N N
1.5.3 1.5.4 1.6 3.4 3.4.3.2 1.1	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described Visual examination and check of dimensions This subclause is applicable	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N N N N
1.5.3 1.5.4 1.6 3.4 3.4.3.2 1.1	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described Visual examination and check of dimensions This subclause is applicable Electrical tests	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N N N N
1.5.3 1.5.4 1.6 3.4 3.4.3.2 1.1	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described Visual examination and check of dimensions This subclause is applicable Electrical tests This subclause is applicable	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N N N N N
1.5.3 1.5.4 1.6 3.4 3.4.3.2 4.1	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described Visual examination and check of dimensions This subclause is applicable Electrical tests This subclause is applicable This subclause is applicable	Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek	N N N N N N N N N N
1.5 1.5.3 1.5.4 1.6 3.4 3.4.3.2 4.1 4.2 4.2.1 4.2.5 4.2.5	Terms and definitions Class X capacitors tested according to subclass X2 This subclause is applicable Marking Items a) and b) are applicable Approval testing Table 3 is applicable as described Visual examination and check of dimensions This subclause is applicable Electrical tests This subclause is applicable This subclause is applicable Only table 11 is applicable	Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek	N







Page 69 of 105

Report No. 182414C400016101

- x0/	IEC 60335-2-7	And And And	-/c
Clause	Requirement + Test	Result - Remark	Verdict
Anboter	This subclause is applicable	k Anboten Anbo	nboN ^k
Anbotek	Only insulation resistance and voltage proof are checked	otek Anbotek Anbotek	Notek
4.13	Impulse voltage	Anbore And otek Anbore	-Anbe
Les VUE	This subclause is applicable	Anboten Anboatek anbo	A N A
4.14	Endurance	Anbotek Anbo tek	bojek -
Anbotek	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable	k Aupotek Aupotek	Anbo'N'
4.14.7	Only insulation resistance and voltage proof are checked	otek Anbotek Anbotek	Anho
ek Anb	No visible damage	botek Anboten Anbo	N N
4.17	Passive flammability test	Anbotek Anbotek Anbo	rek
n otek	This subclause is applicable	Ant otek Anbotek Ar	Ň
4.18	Active flammability test	Anborek anborek	Aupor
Aupo. "ek	This subclause is applicable	Tupo sek upotek	MUN
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		
ootek Ar	The following modifications to this standard are approximately transformers:	plicable for safety isolating	N N
X polen	Marking and instructions	Anboren Anbo	vupotek
7.1nbotek	Transformers for specific use marked with:	rek Anborek Anbo	, obeiek
Anborek	-name, trademark or identification mark of the manufacturer or responsible vendor	potek Aupotek Aupotek	Noore
YUB	-model or type reference:	Anbores And otek Anbore	NAME
17	Overload protection of transformers and associated	d circuits	ojek I
unbotek sotek	Fail-safe transformers comply with subclause 15.5 IEC 61558-1	of Anbotek Anbotek	xipote/N
22	Construction	And otek anbotek	Vupo.
k Anbor	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	potek Anbotek Anbotek	NA Anb
29 [20]	Clearances, creepage distances and solid insulation	on Potek Pupoter Pupo	lek -
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	Anbotek Anbotek Anb	nbotek N
Anbote.	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	ofek Anbotek Anbotek	Anbo N ^k
bir.	7,00	rok -po	by.

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Page 70 of 105

Report No. 182414C400016101

, tok	Wotek Aupo K. Wotek	IEC 60335-2-7	otek anbotek Ar	lon ly.
Clause	Requirement + Test	sk anborek	Result - Remark	Verdic
por	Anti-	tek społek	Anbore An Morek	Anboren
	For safety isolating transformers periodic voltages with a frequency kHz, the clearances, creepage dinsulation values specified in IEC applicable, if greater than the valitems 2a, 2c and 3 in table 13 of	cy exceeding 30 istances and solid 0 60664-4 are lues specified in	Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	ootek Anbor
Н	ANNEX H (NORMATIVE) SWITCHES			
Vupo.	Switches comply with the following	ng clauses of IEC 61	058-1, as modified below:	Aupote.
Anbote	The tests of IEC 61058-1 carried conditions occurring in the applia		rek upotek Aupot	AUN's
an'	Before being tested, switches are without load	e operated 20 times	botek Anbotek Ant	N N
3 rek	Marking and documentation	And	Anbotek Anbo.	Mojek
nbotek	Switches are not required to be r	marked	Anborek Anbore	N NoteN
Anbotek Anbote	However, a switch that can be te from the appliance marked with t name or trade mark and the type	the manufacturer's	ek Anbotek Anbote	k Nel
13 _{cot}	Mechanism	Anbore. Ans	notek Anbotek Anb	- k
tek	The tests may be carried out on	a separate sample	tek abotek	wpo, N
15	Insulation resistance and dielect	ric strength	Anbo tek abotek	Anbore N
15.1	Not applicable	otek Anbotek	Aupor Ar apolek	Aupot N
15.2	Not applicable	tek nbotek	Aupor All potel	AndN
15.3	Applicable for full disconnection disconnection	and micro-	ek Anbore Andrew	Hek Noo
17	Endurance	Anbotek An	bo. Pr. Społek W.	hore _A
upotek	Compliance is checked on three appliances or switches	separate	Anbotek Anbotek	Aupotek N
Anbotek	For 17.2.4.4, the number of cycle according to 7.1.4 is 10 000, unle		Anbotek Anbotek	AnboNk
Anbord	otherwise specified in 24.1.3 of t	he relevant part 2 of	otek Anborek Anborek	ick buo
ek A	Switches for operation under no be operated only by a tool, and	load and which can	Inbotek Anbotek Ar	vupojek N
potek potek	switches operated by hand that a that they cannot be operated und		Anbotek Anbotek	Arbotek N
Ann	are not subjected to the tests	abotek Anboten	Ann Lotek Anbotek	Anbou
Anbo	However, switches without this in subjected to the test of 17.2.4.4 operation		otek Anbotek Anbot	orek An







Page 71 of 105

Report No. 182414C400016101

ol-	IEC 60335-2-7	An tok abotek Anbo	laye.
lause	Requirement + Test	Result - Remark	Verdic
pore	And the Anborek Anbo sek abore	k Anbore K Ant	Anbotek
Anboten	Subclauses 17.2.2 and 17.2.5.2 not applicable	stek Anboten Anti-	Nod NK
Anbotek Anbot	The ambient temperature during the test is that occurring in the appliance during the test of Clau 11 in IEC 60335-1	se tek Anbotek Anbotek	Anijot Anijot
otek An	The temperature rise of the terminals not more that 30 K above the temperature rise measured in class 11 of IEC 60335-1 (K)	use not a mark	potek N
20 potek	Clearances, creepage distances, solid insulation assemblies	and coatings of rigid printed board	Anborak
Anbore	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	hotek Anbotek Anbotek	K PUN
otek Ant	It is also applicable to creepage distances for functional insulation, across full disconnection an micro-disconnection, as stated in Table 24	d Anbotek Anbotek Anbo	otek N
	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT RATED VOLTAGE OF THE APPLIANCE	IS INADEQUATE FOR THE	
Anbote	The following modifications to this standard are a insulation that is inadequate for the rated voltage		N _{AND}
VUP	Protection against access to live parts	Anbores And	P
3.1 P	Metal parts of the motor are considered to be ballive parts	re Anbotek Anbotek A	upotek N
1 dek	Heating	Anti-	bupo,
1.3	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings	Anbotek Anbotek Anbotek	Anbor
1.8	The temperature rise of the body of the motor, whin contact with insulating material, not exceeding values in table 3 for the relevant insulating mater	abotek Anbo	loosek NA
6	Leakage current and electric strength	k Anbo tek	Nupore
6.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test	otek Anbotek Anbotek	AUD N
9 , 100	Abnormal operation	Tupotek Pupotek	Pur
9.1	The tests of 19.7 to 19.9 are not carried out	Anbo, All abotek Anbot	N
9.I.101	Appliance operated at rated voltage with each of	the following fault conditions:	N
ototek	- short circuit of the terminals of the motor, include any capacitor incorporated in the motor circuit	ling Anbotek Anbotek	Arbotek N
potek	- short circuit of each diode of the rectifier	tel abotek Anboten	N
bi.	- open circuit of the supply to the motor	hoor An hotek Anborek	N
DAY	- open circuit of any parallel resistor, the motor be	PULL PULL	N

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Page 72 of 105

Report No. 182414C400016101

10 No.	IEC 60335-2-7	atek anhore And	10
Clause	Requirement + Test	Result - Remark	Verdic
pote.	And stek Anbotek Anbo Ak botek	Aupore. Aug Otek	nbotek
Anbotek	Only one fault simulated at a time, the tests carried out consecutively	Anbotek Anbotek	AnboN ^k
22	Construction	Ann otek Anbotek	Vupo.
22.I.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation	Anbotek Anbotek Anbotek	Potek Nu
Anbotek	Compliance checked by the tests specified for double and reinforced insulation	Anbotek Anbotek Ar	AnbotN'
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS	d	
ek Aup	Testing of protective coatings of printed circuit boards IEC 60664-3 with the following modifications:	s carried out in accordance with	N N
5.7	Conditioning of the test specimens	Anbor ak hotek An	oo _{fer}
Anborek	When production samples are used, three samples of the printed circuit board are tested	Anbotek Anbotek	Anbot N
5.7.1	Cold Anbotek Anbotek Anbotek	ek botek Anbotes	Vu.
P.L.	The test is carried out at -25 °C	k wotek Aupotek	N
5.7.3	Rapid change of temperature	upote, Aug Motek Wupot,	P
O'SE P.	Severity 1 is specified	Anboren Anborek Anh	otek N
5.9	Additional tests	Anborek Anbo	nbotek
Anbotek	This subclause is not applicable	Auposek Aupo	Nev
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		
stek by	The information on overvoltage categories is extracted from IEC 60664-1	Mortek Anbotek Anbote	otek PA
hotek	Overvoltage category is a numeral defining a transient overvoltage condition	Anbotek Anbotek An	nbote/P
Anbotek	Equipment of overvoltage category IV is for use at the origin of the installation	ek Anbotek Anbotek	Anb N
ek Anbot	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	potek Anbotek Anbotek	N AL
Anbotek Anbotek	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Aupotek Vipotek V	nbotek Anbotek
Anbore	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	otek Anbotek Anbotek	Pullou







Page 73 of 105

Report No. 182414C400016101

	IEC 60335-2-7		
Clause	Requirement + Test	Result - Remark	Verdict
hotek	Aribb tek abotek Aribon tk botek	Anborek Anbo	opotek
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	Anbore Anbore
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	ANCES AND CREEPAGE	_
Anbotek	Information for the determination of clearances and creepage distances	Anbotek Anbotek Ar	Anbotek
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		
ok An'	The information on pollution degrees is extracted from IEC 60664-1	Apotek Anbotek Anbo	P
oter	Pollution	Anbore, And Orek An	potek
Anbotek Anbotek	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment	Anbotek Anbotek	Anbotek
Anbor	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	ek Anborek Anborek	Panbo
otek br.	Minimum clearances specified where pollution may be present in the microenvironment	anbotek Anbotek Anbot	P A'
	Degrees of pollution in the microenvironment	upotek Anbors An	hotek-
Anbotek	For evaluating creepage distances, the following degration microenvironment are established:	rees of pollution in the	Anboiek Anboiek
Anbo	- pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence	potek Anbotek Anbotek	k Voo
nbotek nbotek	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Anbotek Anbotek Anb	otek N
Anbotel	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	otek Anbotek Anbotek	Anborr Anborr
ipojek V.	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	Anbotek Anbotek Anbr	nbotek N
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		
Anbo	The proof tracking test is carried out in accordance w modifications:	ith IEC 60112 with the following	P
ZY AL	Test apparatus	abotek Anbo	18Y

Shenzhen Anbotek Compliance Laboratory Limited

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Page 74 of 105

Report No. 182414C400016101

40-	IEC 60335-2-7	b ok bořek Anbo	Y"
Clause	Requirement + Test	Result - Remark	Verdict
upote.	Ant otek Anbotek Anbo kek Abotek	Anbore And Sotek	nbotek
7.3	Test solutions	Anbotes Anb	nbo'P'
Anbotek	Test solution A is used	sk Aupolek Aupo	Potek
10 nbo	Determination of proof tracking index (PTI)	otek Anbotek Anbo	- 100
10.1	Procedure	otek unbotek Anbor	P
*ek	The proof voltage is 100V, 175V, 400V or 600V:	Anboatek Anbo	P
,6K	The test is carried out on five specimens	Anbo rek abotek Ar	P.
Anbotek Anbotek	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	Anbotek Anbotek	Anbotek
10.2	Report Anbores Anbores	otek Ando, tek apotek	+upo,
iek An	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	Anbotek Anbotek Anbot	ek P M
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF	CLAUSE 30	
Aupor	Description of tests for determination of resistance to heat and fire	kek anbotek Anbotek	Pull Press
Р	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STA	ANDARD TO APPLIANCES	
Anbotek	Modifications applicable for class 0 and 01 appliance exceeding 150V, intended to be used in countries ha are marked with symbol IEC 60417-6332		Anbote N
k Anbore	Modifications may also be applied to class 1 appliance exceeding 150V, intended to be used in countries ha		Vien
	are marked with symbol IEC 60417-6332, if liable to mains that excludes the protective earthing conducto	o be connected to a supply	N Anbore Ant
5.7		o be connected to a supply	Anbore Ant
7.1	mains that excludes the protective earthing conducto The ambient temperature for the tests of clauses 11	o be connected to a supply	Anbon Anh
7.1 Anbotek	mains that excludes the protective earthing conducto The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C The appliance marked with symbol IEC 60417-	o be connected to a supply	otek N
nbotek	mains that excludes the protective earthing conducto The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C The appliance marked with symbol IEC 60417-6332 The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not	o be connected to a supply	Anborek Anborek
7.1 Anbotek	mains that excludes the protective earthing conducto The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C The appliance marked with symbol IEC 60417-6332 The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA The instructions state that the appliance is considered to be suitable for use in countries having a tropical climate, but may also be used in other	o be connected to a supply	Andorek N N Andorek







Page 75 of 105

Report No. 182414C400016101

rok Ar	IEC 60335-2-7	18
Clause	Requirement + Test Result - Remark	Verdict
porc	And Andrew Andrew Andrew Andrew Andrew	nboter
13	Leakage current and electric strength at operating temperature (IEC 60335-2-64)	NpoN ^k
13.2	Stationary class I appliances, leakage current not exceed following values (IEC 60335-2-64)	: Note
Arra	-for cord and plug connected appliances:	Napp
	0,5 mA or 0,5 mA/kW rated power input of appliance with max 5 mA, whichever is higher (IEC 60335-2-64)	hbotek l
Anboier	-for other appliances:	Node
	0,5 mA or 0,5 mA/kW rated power input of appliance with no maximum, whichever is higher(IEC 60335-2-64)	Anbotel
ik Aug	Portable class I appliances, leakage current not exceed following values (IEC60335-2-64)	: N
,010	- for cord and plug connected appliances:	ipotek N
	0,5 mA or 0,5 mA/kW rated power input of appliance with max 5 mA, whichever is higher (IEC 60335-2-64)	Anbotek Anbotek
15.3 Anbore	The value of t is 37 °C	No
16 Anb	Leakage current and electric strength (IEC 60335-2-64)	e N
16.2	Stationary class I appliances, leakage current not exceed following values (IEC 60335-2-64)	: prek N
Anbotek Anbotek	-for cord and plug connected appliances: 0,5 mA or 0,5 mA/kW rated power input of appliance with max 5 mA, whichever is higher (IEC 60335-2- 64)	Anbotek
Anbo	-for other appliances:	N
	0,5 mA or 0,5 mA/kW rated power input of appliance with no maximum, whichever is higher (IEC 60335-2-64)	otek bi
Anbotek	Portable class I appliances, leakage current not exceed following values (IEC60335-2-64)	Aupoter
Anboren Anbor	-for cord and plug connected appliances: 0,5 mA or 0,5 mA/kW rated power input of appliance with max 5 mA, whichever is higher (IEC 60335-2-64)	K An
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	arbotek N
2	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS	
abot	Description of tests for appliances incorporating electronic circuits	N
	AT ATT	







Page 76 of 105

Report No. 182414C400016101

0,	V. V.	botek Anbotek	Anboatek	IEC 60335-2-7	Anbore	V. Posek	Aupoten	Augo
dn.	Clause	Requirement + Test	Anbo	k abotek	Result -	Remark	Anbo	Verdict

AUD	when who, we show the state of	And work	upo.
	SOFTWARE EVALUATION		
Anbotek Anbot	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex	otek Anbotek Anbotek	Anbotek Anbot
R.1	Programmable electronic circuits using software	inpose Aur Potek Aupo	N An
Aupotek Vipotek	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard	Anbotek Anbotek Arbotek	botek Anbotek Anbotek
R.2	Requirements for the architecture		Nupor
hotek Anbotek Anbotek	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety-related segments of the software	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	orek Anbotek
R.2.1.1	Programmable electronic circuits requiring software in control the fault/error conditions specified in table R.2 structures:		N Anbore
potek l	- single channel with periodic self-test and monitoring	Ambotek Ambotek Am	ptek N
Anboro	- dual channel (homogenous) with comparison	Ambore Am	nbo ^{te} N
Aupore	- dual channel (diverse) with comparison	Anbote, Ans wotek	AnbNek
ek Anbore	Programmable electronic circuits requiring software in control the fault/error conditions specified in table R.1 structures:		Noorel Anoorel
ootek A	- single channel with functional test	nbotek Anbote Ans	tek N
abotek	- single channel with periodic self-test	abotek Anbote And	Notes
an botek	- dual channel without comparison	Anbotek Anbotes	N×
R.2.2	Measures to control faults/errors	y Polek Vupolek	Anb N wek
R.2.2.1	When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area	otek Anbotek Anbotek	ANDO Anbo
R.2.2.2	Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control	upotek Aupotek Aupotek	rek N An







Page 77 of 105

Report No. 182414C400016101

bu.	IEC 60335-2-7	or Arr Potek Aupoter	Anb
Clause	Requirement + Test	Result - Remark	Verdict
Anborek	Anborek Anborek Anbore	Ambotek Ambo	botek
Aupotek Aupotek	the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ninb botek Anbotek
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired	tek Anbotek Anbotek Anbotek Anbotek Anbotek	And And
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	Anbotek Anbotek An	anbotek
R.2.2.7	Labels used for memory locations are unique	ek Anborek Anbor	N _{botel}
R.2.2.8	The software is protected from user alteration of safety-related segments and data	potek Anbotek Anbote	N Anbe
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	Anbotek Anbotek Anb	otek N A
R.3	Measures to avoid errors	Anborer Anb	Nek Nek
R.3.1	General	ek Anbotek Anbo	Notek
Rosek Aup	For programmable electronic circuits with functions re measures to control the fault/error conditions specified following measures to avoid systematic fault in the so	d in table R.1 or R.2, the	N Anbo
Anbotek Anbotek	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1	Anbotek Anbotek And	hotel N Anbotek
R.3.2	Specification	Aupo, by apolek	PNO
R.3.2.1	Software safety requirements:	Software Id:	Nanbot
otek Ar	The specification of the software safety requirements includes the descriptions listed	Npotek Anborrek Anbo	ek N Ari
R.3.2.2	Software architecture	Ando stek anbotek Ar	N N
R.3.2.2.1	The specification of the software architecture includes the aspects listed	Document ref. No:	Anbolek
Anbot Anbot	- techniques and measures to control software faults/errors (refer to R.2.2);	tek Anbotek Anbotek	Auport
oter An	- interactions between hardware and software;	boten Anbo	ek Ant





Page 78 of 105

Report No. 182414C400016101

ek.	hotek Anbore Ant	IEC 60335-2-7	bo hotek	Anbore Ans
Clause	Requirement + Test	k spotek	Result - Remark	Verdict
'upole.	And Anbotek Anbor	ek społek	Anbores And	ek Anbotek
Aupotek	- partitioning into modules and the specified safety functions;	eir allocation to the	Anboten Anbo	ootek Anbotek
	- hierarchy and call structure of the flow);	ne modules (control	tek Anbotek	Anbotek Anbote
	- interrupt handling;		by hotek	Aupole Aur
	- data flow and restrictions on dat	ta access;	Anbore And Stek	upotek A
	- architecture and storage of data	a; And	anbotek Anbo.	k wotek
<i>hotek</i>	- time-based dependencies of se	quences and data	Posek Wipose	An
R.3.2.2.2	The architecture specification is the specification of the software sby static analysis		k Anbotek Ant	Josek Anbotek
R.3.2.3	Module design and coding	anbotek Anb	ore Augusta	Anbotel Nabo
R.3.2.3.1	Based on the architecture design suitably refined into modules	, software is	Anbotek Anbotek	Anbotek N An
Anbotek	Software module design and cod in a way that is traceable to the s and requirements		Anbotek Anbote	otek Andotek
R.3.2.3.2	Software code is structured	Anbotes Anbo	ek upojek b	nbore N hor
R.3.2.3.3	Coded software is validated again specification by static analysis	nst the module	nootek Anbotek	Anbotek N
oo ^{tek}	The module specification is valida architecture specification by static		Anbotek Anbotek	Anborek N
R.3.3.3	Software validation	notek Anboter	And sek and	rek Anborn
Anbote	The software is validated with ref requirements of the software safe specification		Aupolek V	hbotek Anbote
Anb	Compliance is checked by simula	ation of:	boten Anbe	NAnt
otek l	- input signals present during nor	mal operation	Anborek Anbo	potek N I
nbotek	- anticipated occurrences	Yun.	Anbotek Anbore	ek hotelN
abotek	- undesired conditions requiring s	system action	abotek Anbo	N.V.





Page 79 of 105

Report No. 182414C400016101

is. Du	bořek Anbořek	IEC 60335-2-7	Aupotes, Aug Potek	Anbotek Anbo
Clause	Requirement + Test	Anbo tek abotek	Result - Remark	Verdict

	Anbotek	TAI	BLE R.1 ° – GENERAL FAULT/	ERROR COND	DITIONS	*ek	botek
7 7	Component	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Ver- dict
10	1 CPU 1.1	botek Anbot	potek Anbotek Anbotek	Anbotek	Anbotek hot	ek Anbore	N A
	Registers	Stuck at	Functional test, or periodic self-test using either:	H.2.16.5 H.2.16.6	ak Ans	orek An	potek
		Aur Potek	- static memory test, or	H.2.19.6	ore An	hotek	Anbotek
		Anbotek	 word protection with single bit redundancy 	H.2.19.8.2	Anborek	Anborek	Anbo
7.0	1.2 VOID	yek Aupore	Anbotek Anbotek	Aupor	Ansolek	Anboren	N Pro
10	1.3 Programme counter	Stuck at	Functional test, or Periodic self-test, or Independent time-slot monitoring, or	H.2.16.5 H.2.16.6 H.2.18.10.4	k Anbore	otek Anbor	N sotek nbotek
0	Anbotek	Aupotek	Logical monitoring of the programme sequence	H.2.18.10.2	'upotek	Anbotek	Anbor
000	2 Interrupt handling and execution	No interrupt or too frequent interrupt	Functional test, or time-slot monitoring	H.2.16.5 H.2.18.10.4	Anborek Anbore	tek Anbore	k Nan
N _S	3 Clock	Wrong frequency (for quartz synchronize d clock:	Frequency monitoring, or time slot monitoring	H.2.18.10.1 H.2.18.10.4	Anbotek Anbotek	Anbotek Anbotek	N Anbore
72		harmonics/ sub- harmonics only)	botek Anbotek Anbot	otek Anbotek	tek Anbore	hek Anbr	nbotek nbotek
	4. Memory	Androjek	Anbotek Anbot An	abotek A	poter A	, orek	An Note
*	4.1 Invariable	All single bit faults	Periodic modified checksum, or	H.2.19.3.1 H.2.19.3.2	Anbotek	Anbotek	Anbo
0,	memory	otek Anbo	multiple checksum, or word protection with single bit redundancy	H.2.19.8.2	Anbotek Anbotek	Anbotek Anbotek	iek V
7.	4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2	Dotek An	Anbotek Ar	Anbotek Anbotek
24	4.3	Stuck at	Word protection with single bit	H.2.19.8.2	Anbore	Anthorek	N Þ







Page 80 of 105

Report No. 182414C400016101

ľo	e. Aug	otek Anbotek	Aupo.	IEC 60335-2-7	Anbote And botek	Anbotek Anbo
'u	Clause	Requirement + Test	Anbo	k abotek	Result - Remark	Verdict

Addressing (relevant to variable and invariable memory)	Anbotek Anbotek	redundancy including the address	otek Anbo	Potek Vi	botek Ar	Vuposek Posek
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	Anbotek Anbotek	anbotek Anbotek	N Au
5.1 VOID	lun.	Anbotek Anbo tek ab	rek Anbor	Am	otek an	oo ^{ten}
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	Pupotek Pu	Anbotek	Ant Niek
6 External	Hamming distance 3	Word protection with multi-bit redundancy, or	H.2.19.8.1	Anbotek	Aupotek	N And
communicat ion	upotek Ant	CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.4.1 H.2.18.2.2 H.2.18.14	k Aupot	otek Aupo,	otek
C 4 VOID	A shotek	Anbore Ans	П.2.10.14	10. K.	abotek	YUPOJO.
6.1 VOID	VI.,	Anboten Anbo	Motek	upor	Anbotek	N _{ot} e
6.2 VOID 6.3 Timing	Wrong point in time	Time-slot monitoring, or scheduled transmission	H.2.18.10.4 H.2.18.18	Anbotek	Anbotek	N N
obotek Ar	hotek And	Time-slot and logical monitoring, or	H.2.18.10.3	hotek Anbote	otek And	otek
Anbotek Anbotek	Vupotek Vupotek	comparison of redundant communication channels by either:	potek Anb	nbotek Anbotek	upotek k	inpotek Aupote
tek Aupo	sk Anbotek	 reciprocal comparison independent hardware comparator 	H.2.18.15 H.2.18.3	Anbotek Anbotek	Anbotek	. Anb
Anbotek An	Wrong sequence	Logical monitoring, or time-slot monitoring, or	H.2.18.10.2	Jek Aupo	yek Pup.	hotek Notek
Anbotek	Aupotek Vii.	Scheduled transmission	H.2.18.10.4 H.2.18.18	lpotek b	nbotek A	Anbotel
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	Anbotek Anbotek	Anbotek Anbotek	N _{Amb} o
7.1 VOID	upotek Ar	poter Aupotek Aupote	Anbo	ek abo	lek Aupo	N
7.2 Analog I/O 7.2.1	Fault botek	Plausihility chock	H.2.18.13	Dotek Ar	hotek Ar	Anbotek Anbotek
A/D and D/A-	conditions specified in	Annotek Annotek	Aupore	Anbotek	Anbotek	bu.









Report No. 182414C400016101



Page 81 of 105

S. Vun	hotek Anbotek	IEC 60335-2-7	Anbote, Anb Potek	Anborek Anbo
Clause	Requirement + Test	Aupo, ek spotek	Result - Remark	Verdict

converter	19.11.2	botek Anbote Am	riek noo	Ser Aupo	-ok	potek
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	potek Ar	Aupotek Potek	Niek Anbor
8 VOID	V And	ek Anbotek Anbor	An. spotek	Anboren	Pun Polek	N
9 Custom chips ^d e.g. ASIC, GAL, gate array	Any output outside the static and dynamic functional specification	Periodic self-test	H.2.16.6	anbotek Anbotek	ek Anborek An	ek N potek Anbotek

NOTE A Stuck-at fault model denotes a fault model representing an open circuit or a non-varying signal level. A DC fault model denotes a stuck-at fault model incorporating short circuit between signal lines.

e) Table R.1 is applied according to the requirements of R.1 to R.2.2.9 inclusive.

S	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE	
Anbotek Anbotek	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	Anbotek Anbotek
ok Anbo	rechargeable batteries (secondary batteries) that are not recharged in the appliance	otel N Anto
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	inbotek N A
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions	Anbotel Anbotel
5.S.102	Appliances are tested as motor-operated appliances.	bolek Name
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless:	ArboteN
Aupo.	the polarity is irrelevant	AUD N
Aupo.	Appliances also marked with:	PNOTO
Hak Vul	name, trade mark or identification mark of the manufacturer or responsible vendor:	rek Nanbo





a) For fault/error assessment, some components are divided into their sub-functions.

b) For each sub-function in the table, the Table R.2 measure will cover the software fault/error.

c) Where more than one measure is given for a sub-function, these are alternatives.

d) To be divided as necessary by the manufacturer into sub-functions.



Page 82 of 105

Report No. 182414C400016101

otok .	Whole, Wun	botek IEC	60335-2-7	notek mboter	Ann
Clause	Requirement + Test	And	nbotek	Result - Remark	Verdict
Anborer	- model or type refere	ence		Anboten Anb	k oup Nek
Aupo, ep	IP number according against ingress of wat			Anbotek Anbo	otek Notel
Ano	- type reference of ba	attery or batteri	es;nb	ose, Aug Siek	inbotek Nanb
Dojek Vi	If relevant, the positive symbol IEC 60417-50 by the symbol IEC 60-	05 and the neg		Woder William Wotek	Anbotek N A
Anborek	If appliances use mor marked to indicate co batteries			Anborek Anborel	Anbotek Anbotek
7.6 Andre	Additional symbols	poter Yun	stek nab	stek Aupo, Pr	obotek Nabo
7.12	The instructions conta	ain the following	g, as applicable:	nbotek Anbote A	hotek N A
botek	- the types of batterie	s that may be	used:	potek Aupoten	And otek N
potek.	- how to remove and	insert the batte	eries Marie	Anborek Anborek	N.
Anbotek	 non-rechargeable be recharged 	atteries are no	t to be	Anbotek Anbotek	rupo, Nek
k Aupo,	rechargeable batter the appliance before befor		emoved from	ek Anbotek An	hotek Nabo
otek	 different types of ba batteries are not to be 	tteries or new a	and used	Anbotek Anbotek	Anbore N Ar
photek	batteries are to be in polarity	nserted with the	e correct	Anbotek Anbotek	brook N
Anbore	 exhausted batteries appliance and safely of 		oved from the	ek Anbotek Anbot	ek An'N
in Aug	if the appliance is to period, the batteries a		sed for a long	potek Anboten An	Anbotek N Anh
oko. I	- the supply terminals	are not to be	short-circuited	Anbore And And	anbotek N
11.5	Appliances are suppli	ed with the mo	st unfavourable	supply voltage between	NaboteN
Anbotek Anbotel	 0,55 and 1,0 times tappliance can be used batteries 			Anbotek Anbot	otek Anbote
olek bu	 0,75 and 1,0 times to appliance is designed batteries only 			otek Anbotek Anh	Anbotek N _{Ant}
Anbotek Anbotek	The values specified i resistance per cell of account			Anbotek Anbotek	Arbotek Arbotek
19.1	The tests are carried charged unless other		ttery fully	Anbotek Anbo	otek Note
19.13	The battery does not	rupture or ignit	e botek Anb	ore. True	nbotek Nanb
19.S.101	Appliances are suppli	ed with the vol	tage specified	upoter And	nbotek N p
han Anha	tek Compliance Laborate	owy Limited	VU	Sk De.	Property of the Control of the Contr

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		IEC 60335-2-7		
ause	Requirement + Test	rek spotek	Result - Remark	Verdi
ote P	upotek Aupotek Aupo	ok hotek	Anbotes And And	nbotek
Anbotek Anbotek	in 11.5. The supply terminals I of polarity are connected to the unless		Anbotek Anbo	tek Anbotek
k Aupore	such a connection is unlikely t construction of the appliance	o occur due to the	itek Aupoten An	Anborek N
19.S.102	For appliances with provision one or more of the batteries at appliance is operated, if reversallowed by the construction	re reversed and the	Anbotek Anbotek	Anborek Anborek
25.5	The flexible leads or flexible co an external battery or battery I the appliance by a type X attac	oox in is connected to	tek Anbotek Anbo	potek Antor
25.13 AC	This requirement is not applicate leads or flexible cord connection or a battery box with an applia	ng external batteries	Anbotek Anbotek	Anborsk N
25.S.101	Appliances have suitable mea the battery. If the type of batte appliance, the means of conne this type of battery	ry is marked on the	Anbotek Anbotek Anbote	otek Anboth
26.5 Anno 1	Terminal devices in an appliar of the flexible leads or flexible external battery or battery box shielded that there is no risk o connection between supply terminal devices in an appliance of the flexible supplies the supplication of the flexible supplies the flex	cord connecting an are so located or faccidental	Dotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
30.2.3.2	There is no battery in the area cylinder used for the consequentest, unless		Anbotek Anbote	otek Anbote
Anbore	the battery is shielded by a baneedle flame test of Annex E,		otek Anbotek A	"upoter Ny
ek Aut	that comprises material classif according to IEC 60695-11-10		Anbotek Anbotek	Anbotek N
T	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT C	ON NON-METALLIC M	ATERIALS	noteN
Anbotek Anbotek	Requirements for non-metallic direct or reflected UV-C radiat whose mechanical and electric relied upon for compliance wit	ion exposure and cal properties are	otek Anbotek Anbotek	hbotek N

Tested as specified in ISO 4892-1 and ISO 4892-2, with the following modifications:

Shenzhen Anbotek Compliance Laboratory Limited

5.1.6





N

Ν N

Modifications to ISO 4892-1:

The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m2 at 254 nm



Page 84 of 105

Report No. 182414C400016101

-k Vun	notek Anbores Anburga IEC 6033	5-2-7 Anbottek Anbotek Ant
Clause	Requirement + Test	Result - Remark Verdict
upojes	And stek Anbotek Anbot Art	botek Anbotes Anb
Anborell	Subclause 5.1.6.1 and Table 1 are not app	olicable

	1-0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0		
Anboter	Subclause 5.1.6.1 and Table 1 are not applicable	Anboten And And	WP NSK
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C	Anbotek Anbotek	Motek
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	hotek Anbotek Anbotek	NAnbo
9,04	This clause is not applicable	hotek Anbotek Anbo	, ekN
otek	Modifications to ISO 4892-2:	And Anbotek An	N
7.1	At least three test specimens are tested	And otek Anbotek	PupoN
Anbo	Ten samples of internal wiring is tested	Anbo tek anbotek	PW
7.2 Anbo	The specimens are attached to the specimen holders such that they are not subject to any stress	tek Anbotek Anbotek	N.nbo
7.3	Apparatus prepared as specified	ipo otek vupotek Vupo,	N
Anbotek	The test specimens and, if used, the irradiance- measuring instrument are exposed for 1 000 h	Anbotek Anbotek An	ore N
7.4 Anbotek	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	ek Anbotek Anbotek	Anbore Anbore
7.5 Anbot	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	potek Anbotek Anbote	k N Ant
anbotek ek	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	Anbotek Anbotek Ant	N Atoday
8 Anbore	This clause is not applicable	Anbore Ans	VUM, West





Page 85 of 105

Report No. 182414C400016101

0,0	VK V	otek Anbotek	Anbo	IEC 60335-2-7	Aupolo	Au-	Anbotek	Aupo
dn.	Clause	Requirement + Test	Anbo	ik abotek	Result -	Remark	Anbore	Verdict

AA	ANNEX AA (NORMATIVE) DETERGENT (IEC 60335-2-7)			
b1.	10° 10° 1	(IEC 60335-2-7)		
	Detergent: composition, reference	ok hoten And		
BB	ANNEX BB (NORMATIVE) AGEING TEST FOR ELASTOMERIC PARTS (IEC 6	60335-2-7)		
Anbotek Anbotek	Test carried out by measuring hardness and mass before and after immersion in a solutions of detergent and rinsing agent at elevated temperature	Anbotek Anbotek An	Р	
k Anbor	Test is carried out on at least three samples of each part as specified in ISO 1817, with the following modifications:	tek Anbotek Anbotek	Р	
5e ^k	Test liquids	hotek Anbotes And		
Anbotek Anbotek Anbote	Two test liquids are used: - one liquid is obtained by dissolving 5 g of the detergent specified in Annex AA per litre of distilled water; - the other liquid is composed of 0,6 ml of rinsing agent as specified in Annex AA per litre of distilled water.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Р	
	Care is to be taken to ensure that the total mass of the test pieces immersed does not exceed 100 g for each litre of solution, that the test pieces are completely immersed and that their entire surface is freely exposed to the solution. During the tests, the test pieces are not to be exposed to direct light. Test pieces of different compounds are not to be immersed at the same time in the same solution	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N	
6 Anb	Test Pieces	otek Aupo, k wotel		
6.4	Conditioning	abotek Anbots And		
botek	Temperature : 23°C± 2°C	abotek Anbotes And	Р	
spotek	Relative humidity : (50± 5)%	Anbotek Anboten A	Р	
7 botek	Immersion in the test liquid	k abotek Anboten		
7.1	Temperature	rek abotek Anbotek		
ek W	Solution heated within 1h with test pieces immersed to 75+0 ⁵ °C and maintained at this value	nbotek Anbotek Anbotek	Р	
potek	Solution renewed every 24h	Unpolek Aupore Aur	Р	
7.2	duration	Upotek Pupote Ve		
anbotek	Immersion during periods as specified	Aupotek Aupote	Р	
8 000	Procedure	tek upotek Pupotes		
8.2	Change in mass	ok hotek Anborer		







Page 86 of 105

Report No. 182414C400016101

Yes	IEC 60335-2-7	ok botek Anbo	N
Clause	Requirement + Test	Result - Remark	Verdict
pote.	And sek Anbotek Anbo. A. Abotek	Anbore. And And	potek
Anbotek	Increase in mass of the test pieces, not exceeding 10 % of the value determined before immersion	Anbotek Anbotek	Р
8.6	Change in hardness	lek abotek Anbotes	
OK VI	Micro-test for hardness applies	or Anbotek Anboter	Р
Dotek Dir.	Hardness of the test pieces has not been changed by more than 8 IRHD	upotek Ambotek Anbo	Р
Anbotek	Surface not sticky and no crack visible to the naked eye or any other deterioration	Aupotek Aupotek	Р
CC	ANNEX CC (NORMATIVE) DETERGENT FREE ELECTROLYSER WASHING N	MACHINES(IEC 60335-2-7)	
lotek And	Washing machines for household and similar use that incorporate an electrolyte process employing an electrolyte instead of detergent	hootek Anbotek Anbotek Anbote	N
CC.3	Terms and definitions	Anboren And	
3.1.9	Electrolyte specified in the instructions, amount, reference	Anbotek Anbotek	N
CC.7	Marking and instructions	ok hotek Anbotek	
7.12	Instructions for appliances intended to be filled with electrolyte by the user shall contain details of the electrolyte,	Anbotek Anbotek Anbote	N
Vupo _{tek}	And the substance of the following: In order to avoid hazards, use only the electrolyte specified	Anbotek Anbotek	N
7.12.1	Installation instructions shall state that the appliance shall be installed so that there is a distance of at least 200 mm between the appliance enclosure and external heat sources, such as appliances containing heating elements.	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
CC.15	Moisture resistance	Anbotek anbotek A	
15.2	Appliances are operated under the clause of cl. 11 but without clothes load.	k Wupotek Wupotek	N
lek Anbot	When the maximum water level is reached, the inlet valve is held open and the filling is continued for 15 min after first evidence of overflow or until the inflow is automatically stopped by other means.	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
CC.19	Abnormal operation	Anborek Ar	
CC.19.201	Appliances shall be constructed so that foaming does not affect electrical insulation.	Anbotek Anbotek	Р
Anbor	Test carried out immediately after 15.2	tek Aupotek Yupor	Р
	Test carried out immediately after 15.2	Ciek Anbor	P









Page 87 of 105

Report No. 182414C400016101

	Page 67 01 105	Report No. 162414C4	00010101
Dir.	IEC 60335-2-7	port An botek Anboten	Auge
Clause	Requirement + Test	Result - Remark	Verdict
Anbote.	And Anbotek Anbotek	Anbores And sotek An	botek
Anborek	After the test the appliance shall withstand the electric strength test of 16.3	Anbotek Anbotek	Р
CC.22	Construction	ok botek Anboter	
22.6	A solution composed of 5 g of the detergent specified in Annex AA per litre of distilled water is used. is used instead of coloured water	Upotek Wupotek Wupoter	N
22.17	Spacers intended to prevent the electrolyser aperture being blocked by walls shall be fixed so that it is not possible to remove them from the outside of the appliance by hand or by means of screwdriver or a spanner.	Anb	Р
CC.22.201	Appliances fitted with an electrolyser, consisting of cathodic and anodic chambers separated by an electrolytic separator, shall be constructed so that the electrolyser is always open to the atmosphere through an aperture of at least 5 mm in diameter, or 20 mm² in area with a width of at least 3 mm.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Р
Aupore	The aperture shall be located so that it is unlikely to	Anbote Ans botek	Р



be obstructed in normal use.



Product Safety



IEC 60335-2-7

Report No. 182414C400016101

Clause	Requirement + Test	Result - Remark	Verdic
upores P	and atek Anbotek Anbot Ak hotek	Anbotek Anbo	botek
CC.22.202	During normal use of the appliance, the chemical renot produce hydrogen gas that is released in hazard		
ek Anbotel	-where electrical components that produce arcs and sparks during normal operation or abnormal operation are mounted, unless	ostek Anbotek Anbotek	Р
potek k	These components have been tested and found at least to comply with IEC 60079-15 for group IIC gases, or	Anbotek Anbotek Anbo	N
Anbotek Anbotek	-that contain surfaces with a temperature exceeding 460°C during normal operation or abnormal operation and that may be exposed to the released hydrogen gas	otek Anbotek Anbotek Anbotek Anbotek	N
otek And	Compliance is checked by inspection, by measuring the temperature of the relevant surfaces during normal operation or abnormal operation, and by measuring the concentration of hydrogen gas (shall not exceed 50% of the LFL of hydrogen)	Anbotek Anbotek Anbotek Anbotek	N
CC.22.203	During normal use of the appliance, the chemical reaction in the electrolyser shall not produce wash water that causes corrosion due to the PH value of the wash water.	rootek Anbotek Anbotek	Р
oter An	Compliance is checked by the salt mist test of IEC 60068-2-52, severity 2 being applicable.	Anbotek Anbotek Anb	N
Anbotek Anbotek Anbotek	After the test, the appliance shall not have deteriorated to such an extent that compliance with this standard, in particular with cl. 8 and 27 is impaired. The coating shall not be broken and shall not have loosened the surface.	Anbotek Anbotek Anbotek Anbotek Anbotek	N
CC.29	Clearances, creepage distances and solid insulation	Anbotek Anbotek Anb	
29.2	Pollution degree 3, and the insulation with a CTI not less than 250,	Anbotek Anbotek A	Р
Anbotek	Unless the insulation is enclosed or located so that it is unlikely to be exposed to pollution during normal use of the appliance due to :	totek Anbotek Anbotek	
lek Pup	- condensation produced by the appliance	obotek Anbore And	N
botek P	- chemicals, such as electrolyte or fabric conditioner	abotek Anbotes Anso	N
CC.32	Radiation, toxicity and similar hazards	abotek Anbotek Ar	
32	The ozone concentration produced by the chemical reactions in the electrolyser not be excessive.	ek Whotek Whotek	N
Auport	Compliance is checked by test as described	potek Anbors Ans	N
sk vupe	The percentage of ozone shall not exceed 5 x 10 ⁻⁶	notek Aupots Aug	N







Page 89 of 105

Report No. 182414C400016101

OK BUD	botek Anbotek	Anbo	EC 60335-2-7	upotek And botek	Anbotek Anbo
Clause	Requirement + Test	Anbo	abotek	Result - Remark	Verdict
Anbore	And Anbote	Anbo.	ik spotek	Anbores Ans	anbotek

Annex BB	Instead of the solution containing detergent, a solution of the electrolysed portion of the wash water obtained under the conditions of cl. 11 is used.	Anbotek Anbotek	N
DD	WASHING MACHINES INCORPORATING A POWE	R DRIVEN WRINGER (IEC 60335-2-7)	
DD.7	Radiation, toxicity and similar hazards	no Anbotek Anbo	
7.1 Anbotek	The safety release mechanism of power-driven wringers shall be marked to indicate its method of operation, unless	Anbotek Anbotek An	N
Aupotek	Its operating means to be continuously actuated by the user.	tek Vupojek Vupojek	N
7.12	The instructions shall draw attention to the potential hazards involved when operating the wringer,	potek Anbotek Anbot	N
inbotek Anbotek	And shall state that : -the wringer must be disengaged or switched off when not in use; -the appliance must not be operated by children	Anbotek Anbotek Ani	N
DD.11	Heating tek nootek Anbour	ek Anbotek Anbo	N
11.7 Anbor stek And nborek Anborek Anborek Anborek Anborek	Appliance is operated for 3 cycles (washing following by wringing), with a rest period of 4 min between cycles. Duration of each wringing: 8 min. The wringer is loaded by passing a board through the rollers once a minute, the roller pressure being adjusted to the maximum value. The board is approximately 20 mm thick and 80 cm long, its width being at least equal to three-quarters of the effective length of the rollers. The board is uniformly tapered at each end down to a thickness of approximately 3 mm, over a distance of 20 cm.	potek Anbotek	N
DD.19	Abnormal operation	abotek Anbore Ans	N
19.7	Moving parts of a wringer are locked even if a trip bar prevents rotation of the roller	Anbotek Anbotek A	N
DD.20	Stability and mechanical hazards	k Aupo kek upotek	N
20.201	Power-driven wringers constructed so that the pressure between the rollers has to be maintained by the user, unless a readily accessible safety release or other means of protection is incorporated	Upotek Vupotek Vupotek	N
Anbotek Anbotek Anbotek	The release mechanism shall operate easily without violent ejection of any part and shall release pressure on the rollers immediately. The rollers shall separate either by at least 45 mm at both ends or by at least 25 mm at one end and 75 mm at the other	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N







Page 90 of 105

Report No. 182414C400016101

Clause	Requirement + Test	Result - Remark	Verdict
hbotek	Anborek Anborek Anbort Lek Aborek	Anbotek Anbo	potek
Anbotek Anbotek	The safety release shall be operable by a person standing in any normal working position relative to the wringer, even if the fingers of both hands are trapped between the rollers.	Anbotek Anbotek Anbotek Anbotek	N
potek An	Power-driven wringers shall be constructed to Nprevent fingers being squeezed between a roller and the frame	Anbotek Anbotek Anbot	N
anbotek	Power-driven wringers shall be controlled by an easily accessible switch	Anbotek Anbotek An	N





Page 91 of 105

Report No. 182414C400016101

o'V	ok bug	potek Anbotek	Aupo,	IEC 60335-2-7	Aupores, Wur Polek	Anborek Anbor
n	Clause	Requirement + Test	Anbo	k abotek	Result - Remark	Verdict

10.1	TABLE: Powe	r input deviatio	bupo, K W.			ek Po
Input deviati	on of/at:	P rated (W)	P measured (W)	ΔΡ	Required \triangle P	Remark
AC105	5V,60Hz	520	509.4	-2.0%	+15%	, ekP
AC105	5V,50Hz	520	511.4	-1.7%	+15%	Anbo. P.

10.2	TABLE:	Currer	t deviat	ion	'us '- Otek	Anboi	ek Aupo	rek at	otek An
Current	deviation of/	at:	I rated	I (A)	I measure	ed (A)	ΔΙ	Required Δ	I Remai
otek	Anbotek	Anbo	,eX	anborel	Anbo'	- V	Arr. hotek	Anbotek	Anbo
Suppleme	entary informa	ation:	, e.k	7/2°	stek An	boto	Ans	Anbotek	Aupo

11.8	TABLE: Heating test	k Anbo, stek anbotek	AUD.
Aupo	Test voltage (V):	116.6	_
Aupor	Ambient, t1 (°C)	23.2	_
otek Ant	Ambient, t2 (°C)	23.5	_

Thermocouple locations:	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Power cord	Anbote 11.2 Anbotek	nbotek 50 Anbot
SPIN Motor	26.8	Anbott
WASH Motor	21.4	65 65 And
Knob Andorski Andorski	And 3.5 botek An	60
Internal wire	And tek 19.1 nobotek	Prupo, 80 Polek
PCBrek Anboren	21.2 Anboyek	Anbore 120
X capacity	9.8	T-25=85
Plastic Enclosure	And 6.6	62 Anno 62
Test floor	4.2	60
Supplementary information:	Anbotek Anbot All	botek Anboten A





Page 92 of 105

Report No. 182414C400016101

0	ok bu	botek Anbotek	IEC 60335-2-7	Aupole Au Polek	Anbotel Anbe
n	Clause	Requirement + Test	Anbo tek nbotek	Result - Remark	Verdict

13.2	TABLE: Leakage current	atek anbotek	Anboren Anbo
pa. aborel	Heating appliances: 1.15 x rated input (W):	rek shotek	Anbore
ek Anbe	Motor-operated and combined appliances: 1.06 x rated voltage (V):	116.6	tek Vupo _t
Leakage cı	urrent between:	I (mA)	Max. allowed I (mA)
Live part an	d accessible plastic	0.01/0.02	3.5
Live part an	d accessible metal	0.03/0.04	3.5
Supplemen	tary information:	tek anbotek	Auport Mo

13.3	TABLE: Dielectric strength	botek Anbo stek and	potek Anbor P An
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part	and accessible plastic	3000	And stek No subotek
Live part	and earthed metal	1000	Ando No nbote
Supplem	nentary information:	Ans otek Anbore	W Wyo

14	TABLE: Transie	nt overvoltages	Anbotek	Anbo	nbořek	Anbore N
Clearance	e between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
Aug.	itek Anbotek	Anbo. Pr.	abotek A	Upole. Yun	orek anboi	Sk Aupo.
Suppleme	ntary information:	Aupor	Ar. hotek	Anboren A	up stek	botek Ant

16.2	TABLE: Leakage current	Anbotek Anb	Note P
Anbotek	Single phase appliances: 1.06 x rated voltage (V):	116.6	upotek —
Anbore	Three phase appliances 1.06 x rated voltage divided by √3 (V)	Potek Aupotek	Anbotek
Leakage c	urrent between:	I (mA)	Max. allowed I (mA)
Live part ar	nd accessible plastic	0.01	3.5
Live part ar	nd accessible metal	0.02	3.5
Supplemen	ntary information:	Aup	anbotek Anbote







Page 93 of 105

Report No. 182414C400016101

bu.	potek Anboten	IEC 60335-2-7	Anborek Anborek	Anboren Anb
Clause	Requirement + Test		Result - Remark	Verdict

16.3	TABLE: Dielectric strength	Anbo. Arek Anbotek	Anbores Porek
Test voltag	ge applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part ar	nd accessible plastic	3000	ntek Notek An
Live part ar	nd earthed metal	1250	No botek
Supplemen	tary information:	hotek Anbotek	Aup.

17 nbotek	TABLE: Overload pro	tection	Jek Vupo,	otek Anbot	ek Aupoter	N
Thermocou	iple locations:			perature rise ed, Δ T (K)	Max. tempera limit, Δ T	
potek An	bo. H. abotek	Aupore	Ann	Anbotek	Alipo rek - o	potek
Supplement	tary information:	Anbore.	And	Anborek	Aupo.	botek

17 hotek	TABLE: Overload	protection, resi	stance metho	d k	otek Anborel	Anbo.
K PULL	Test voltage (V)		:	O. P.U.	abotek Anbo	- Lo
ak An	Ambient, t1 (°C)		:	'upor	abotek A	nbote
Dr. Dr.	Ambient, t2 (°C)	•••••		Aupolo ek	Areaborek	Anb —
Temperatu	re of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
Aupore	Pur. Potek Pur	Johan Ande	rek anboys	K Aupore	ok Pur	Anboten
Supplemen	tary information:	Aupotek Aup	rek or	otek Anbr	ye Yun	rek Anbote

19 Anb	Abnormal ope	ration conditio	ns Anbo				P P
Operationa	Operational characteristics			Operation	al condition	s	
	electronic circuit	s to control	1013K Anbot	otek Vur	nbotek A	upotek P	'upo, ek
Are there "	off" or "stand-b	y" position?	Yupor VI	hotek	Anboten	Aup	nbote
	nded operation results in dange n?		- Kupotek	Anbotek Anbotek	Anbotek	Anborek	tek Ant
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	N.A	N.A	N.A	N.A	N.A	N.A	N word
19.3	N.A More	N.A	N.A	N.A	N.A	N.A	N
19.4	N.A	N.A	N.A	N.A	N.A	N.A Anbotes	N Anta









Page 94 of 105

Report No. 182414C400016101

-ok -b	otek Anbore	Ai.	IEC 60335-2-	7 And	botek	Anbore	bu.
Clause	Requirement + Te	est Anbo	k aboiek	Resu	lt - Remark	iek Anbo	Verdict
pole.	ing stek out	otek Aupor	rek bo	ek Anbo	Yes Pub	otek on	potek
19.5	N.A	N.A	N.A	N.A	N.A	N.A	Notek
19.6	N.A	N.A	N.A	N.A	N.A	N.A	N note
19.7 Anbore	Test as specified	P Anbotek	N.A	N.A Anbotek	N.A.	N.A	P Anb
19.8	N.A	N.A Moon	N.A hotek	N.A.nbotes	N.A AMB	N.A Mod	N P
19.9	N.A	N.A Anbole	N.A	N.A Mo	N.A Ande	N.A	N _K
19.10	N.A	N.A And	N.A	N.A	N.A	N.A	Notek
19.11.2	Test as specified	Photek A	N.A	N.A	N.A	N.A	PAnbotek

N.A

N.A

N.A

N.A

N.A

N.A

N.A

N.A

Ν

Ν

Supplementary information:

N.A

N.A

19.11.4.8

19.10X

N.A

N.A

19.7	19.7 TABLE: Abnormal operation, locked rotor/moving parts						
An. abotek	Test voltage (V)	•••••	ek wo	_			
K Pur	Ambient, t1 (°C)	o, by	_				
N. A.	Ambient, t2 (°C)	Tupo, ok bi	upo _{te} —				
Temperatu	re of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)	
SPIN Motor	r hotek Anboten	Anbo sek	-boiek	32.5	56.1	175	
WASH Mot	tor Amboratek nabor	Vupor	ek - botel	25.8	49.4	175	
Supplemen	ntary information:	otek Anbo	N. Bur	otek Anbot	er Aup	ek abor	

19.9	TABLE: Abnorma	l operation, runi	ning overload	Androtek	Anbotek A	who N	I
· otek	Test voltage (V)			And	Anbotek	Aup.	-
up	Ambient, t1 (°C)	•••••		Anbanatek	Anbotek	ρ	-
Anbe	Ambient, t2 (°C)	•••••		Anbo	ek nbotel	_	-
Tempera	ture of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
Aupo	sek abotek	Aupore A	hotek	inpoten bu	sek .	botek	Anb
Suppleme	entary information:	Anbores	Aur	anbotek	Aupo. P	potek	P

19.13	TABLE: Abnormal operation, temperature rises					botek	Anbore	K Dir.	Per
Thermod	couple locations:				temperatur easured, Δ T			emperatu mit, Δ T (I	
Supplem	entary information:	Anbore	Aur	rek	Anbotek	Aupo.	nek Pr	potek	Anbot







Page 95 of 105

07	Dir.	otek Anbotek	IEC 60335-	2-7 Anbore An	k Anbotel Anbe
n)	Clause	Requirement + Test	Aupo tek upot	Result - Remark	Verdict

21.1	TABLE: Im	pact resistance	Anbors And borek	Amboret Amb P otel
Impacts p	er surface	Surface tested	Impact energy (Nm)	Comments
V VV	3k Anbo	Enclosure	Anbo 0.5	otek anbPiek Anb
Supplement	tary information	oniek Aupon Au	tek Anboren An	otek Anbotek A

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Washing motor	Suzhou Rongbo Electrical Appliance Co., Ltd	XD-135	110V 60HZ 135W	J60335-1 J60335-2-7	Test with appliance
Spin motor	Suzhou Rongbo Electrical Appliance Co., Ltd	YYG-60	110V 60HZ 60W	J60335-1 J60335-2-7	Test with appliance
Motor thermal protection	Zhongshan Chuancheng Precision Electronics Co., Ltd.	otek Anbote CS2 Anbotek	250V 8A	IEC 60730-1 IEC 60730-2-22	VDE 40049206
Micros witch	Ningbo Zhenhai Sanyun Electric Factory	KTek	3A 250V	J60335-1 J60335-2-7	Test with appliance
Change switch	Ningbo Didu Electric Appliance Co., Ltd	orek XK Anbore	AC125V 6A 60HZ	J60335-1 J60335-2-7	Test with appliance
Wash timer	Ningbo Didu Electric Appliance Co., Ltd	DXT15	AC125V 6A 60HZ	J60335-1 J60335-2-7	Test with appliance
Spin timer	Ningbo Didu Electric Appliance Co., Ltd	DXT5	AC125V 6A 60HZ	J60335-1 J60335-2-7	Test with appliance
Ground wire	NINGBO HAOCHEN WIRE &CABLE CO LTD	1015	18AWG 105℃ 600V	J60335-1 J60335-2-7	UL E490469 Test with appliance
Plug	NINGBO QIAOPU ELECTRIC CO.,LTD	QP5	125V 7A	Anbotek Anbotek	JET5011- 43001-1006







Page 96 of 105

Report No. 182414C400016101

0,4	ok bus	ootek Anbotek	Aupo.	IEC 60335-2-7	Aupole	hotek.	Anborek	Anbo
n ^b	Clause	Requirement + Test	Anbo	k abotek	Result - R	emark	Anbor	Verdict

Alternative	CIXI YELEI ELECTRON CO.,LTD	YL3-12B	125V 7A	oter Anbotek Anbotek	JET7891- 43001-1004
Power cord	NINGBO QIAOPU ELECTRIC CO.,LTD	VCTF Anbor	3X0.75MM2	Anbotek Anbo	JET5011- 12009-1001
Alternative	CIXI YELEI ELECTRON CO.,LTD	VCTF VCTFK	3X0.75MM2	otek Anbotek	JDE235010
Capacitor	CIXI RIYI CAPACITOR FACTORY ZONGHAN STREET	CBB60	38uf ±5% 18uf±5% 300VAC C S0 50/60HZ	EN60252-1: 2011	R 50244743
Supplementary inf	ormation:	Anbo, Al.	botek Anbote	Andarek	Vupotsk

28.1	TABLE: Thread	led part torque test	potek Anbores	And otek on Prek
Threaded identifica		Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)
Screw for	enclosure	4.06	otek Aupli	notek 1.2
Suppleme	entary information:	Augs Stek	Anbotek Anbote	hotek Anbotek
Aupolo	Puz Potek VL	poter Anbo	abotek Anbote	Pur Potek Vupotek

"upo,	hotek	Anbotek	Anbe	stek shotel	Anbore	ok hoy	ek Ar	poter
29.1	TABLE:	Clearances	er A	upo tek upo	otek Anbor	Y Am	otek	AnbPen
	Overvolt	age categoi	y		.:			_
				Type of i	nsulation:			
Rated impulse voltage (V)		. cl (mm)	Basic (mm)	Supplementar y (mm)	Reinforced (mm)	Functional (mm)	Verd Rem	
330	0,2* /	0,5 / 0,8**	K DU	DOJE. AUT	ek anbore	k Aupo	N N	potek
500	0,2* /	0,5 / 0,8**	otek	Anbore. Anb	otek ont	otek Ant	, V	-botel
800	0,2*/	0,5 / 0,8**	potek	Anbotek Ar	loo tek	abotek	Wpose V	Du.
1 500	0,5 / 0),8** / 1,0***	>1.0mm	anbotek	Aupo	>1.0mm	Anbore F	V VU
2 500	, e ^k 1,5	5 / 2,0***	Aug Of	k Wpotek	>2.0mm	An hotek	Aupog	P.
4 000	3,0	0 / 3,5***	AUPO	tek sabotek	Aupor	An hotel	4774	pier
6 000	5,5	5 / 6,0***	AU,	sek abo	ek Aupore	k bus	1 Yor	upotek
8 000	8,0	0 / 8,5***	otek	Yupo, by	potek Anb	yes Yun	woter N	Anbotek
10 000	11,0) / 11,5***	upotek	Aupora bu	hotek D	Upoger b	Upp Jek I	, nbo
Supplementa	ary inform	ation:	Motek	Anbore	An-botek	Anbotek	Anbo	r 00

Shenzhen Anbotek Compliance Laboratory Limited







Clause

ge 97 of 105	Report No.	182414C400016101		
IEC 60335-2-7	Vun Polsk	Anbotek	Anbo	

Verdict

Result - Remark

*) For tracks on printed circuit boards if pollution degree 1 and 2

Requirement + Test

- **) For pollution degree 3
- ***) If the construction is affected by wear, distortion, movement of the parts or during assembly

Working voltage (V):												
	1		2			3		Type of insulation				
		Material group			Material group							
		I	II	IIIa/IIIb	ı	II	IIIa/IIIb*	B**	S**	R**	Verdict	
≤50 bokek	0,18	0,6	0,85	₀ , 1,2	1,5	1,7	1,9	2000	_		N	
sek ≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		botek		nbot N	
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8			,K	ANN	
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	X	_		Riboi	
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	_	Di.	_	N pr	
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8		_	Х	re⊬ P	
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	Aupo			worke N	
aborek 250 Anbore	0,56	1,25	1,8	2,5	3,2	3,6	4,0		por		Nek	
250 Anbo	1,12	2,5	3,6	5,0	6,4	7,2	8,0	_	_		N	
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	orek	_		N	
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	_	-		NAM	
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	_	_	Anbo	N	
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	br.	_		pote N	
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	^	hotel		AUP N	
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	_	_	rek	Note	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	16	_		Nanb	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		N. P		× N	
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0		_	Vu.	oteVN	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	Ant		_	N	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		Yupose.	_	N _{tel}	
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	_	_	(6.	N	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	potek		_	Nanba	









Page 98 of 105

Report No. 182414C400016101

Tale All Les about the August Les and Les about the August Les and Les		
Clause Requirement + Test Result - R	Remark	Verdict

>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		rek	_	upo
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0		_	ek.	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	Sec	_	_	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	<u> </u>	P.c	_	4
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	_	_	Aupo	.o.k
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	anb	_	_	0,
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	_	upotek	_	upo
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	_	_	S.K.	PL
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	*ek	_	_	
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	_		_	
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0		_	/0	otek
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	Aup.	_		,bot
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		100	_	- ~\
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0		_	*ek	- Pri
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	otek	_	_	
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_		_	4
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0			Aupo	
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		_	_	bote
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_	nbore	_	Anb
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0		_	otek	9
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	- ak	_	_	
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		- Y-	_	ek
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	_	_	h.	note
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	An	_	_	-70
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		Vupo.	_	Bun
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	d —		-V-	P
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	abotek			V.
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		ik.	_	- \/
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0			An	oter
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		_	_	Aupo
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	_		_	A.
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0			rek	

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Page 99 of 105

Report No. 182414C400016101

o'V	ok bug	potek Anbotek	Aupo,	IEC 60335-2-7	Aupores, Wur Polek	Anborek Anbor
n	Clause	Requirement + Test	Anbo	k abotek	Result - Remark	Verdict

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

^{**)} B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

Working voltage (V):				eepage di (mm) ollution d				Lotek Anbotek	
	1		2			3			
		Ма	terial g	roup	Material group				
		ı	II	IIIa/IIIb	I	II	IIIa/IIIb*	Verdict / Remar	k
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	Notek Notek	E
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	Anbor N borek	
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	Anbore P Anbore	*ek
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	Anbote N Ans	hotel
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	k Aupole N A	
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	otek Anb N	Vue
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	hotek ANotes	P
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	hotek Nanbotek	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	Anbor	Sk
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	And Arely Ar	potek
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A	Anbo
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	And N tek	~
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	Wholes AN Stek	
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	Anborek Nanbo	Y _S
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	Anborek N Anbor	rek
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	Anbotek N An	, o,
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	tek AnboiN	Vupo
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	notek an Notek	PL
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	Nobotek Nobotek	

Supplementary information:

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

30.1	TABLE: Ball Pressure Test of Therm	oplastics	*ek	nbotek	Aupore	P
 Allowed im	pression diameter (mm):	otek	Yupo.	h. abořek	Anbore	_







Page 100 of 105

Report No. 182414C400016101

o'V	VK VIII	ootek Anbotek	Anbe	IEC 60335-2-7	Aupore	Pur	Anbotek	Aupo
nl:	Clause	Requirement + Test	Anbo	ik abotek	Result -	Remark	Aupole	Verdict

Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Plastic enclosure	Ans Anbor	125	1.3
PCB	And sorek An	125	0.8
Supplementary information:	Aug	Anbotek Anbot	Anbotek Anbotes Ar

30.2	TABLE: Resistance to heat and fire - Glow wire tests						s botek	Anb P	
Object/ Part No./ Material	Manufacturer / / trademark	Glow wire test (GWT); (°C)							
		550	650		750		050	Verdict	
		550	te	ti	te	ti	850		
Plastic enclosure	otek - Anbote	ik - Ar	bojek_	Aupo,	0 Anbo	0 M	X	anbot 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		
Pr. Potek	Anbote	AUG	ek .	hoick	Aupo,	No.	ek Anbo	ye. Vue	
K VOA	ek Anbotek	Aupo	·ek	abotek	Aupole	K View	otek A	abotek P	
The test spec	ne test specimen passed the glow wire test (GWT) with no ignition $[(te - ti) \le 2s]$ (Yes/No) no, then surrounding parts passed the needle-flame test of annex E (Yes/No)					(Yes/No):	Yes		
f no, then sur						Anb.	No		
	ne test specimen passed the test by virtue of most of the flaming material being withd th the glow-wire (Yes/No)?							No	
gnition of the specified layer placed underneath the test specimen (Yes/No)							NoAnb		
Aupo	n, information.	" Upogg	Pr.	U.	hotek	Aupo	V-	*ek	

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 (N	otek anbotek	Anbo.	N	
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)	Verdic t
	abotek Anbote	An Andrek An	ootek Anbo	potek	Yupose Yu	· otek

Supplementary information:

- NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1
- NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0

















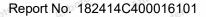














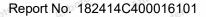




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End of report



